



CITY COUNCIL MEETING AGENDA

October 6, 2016

Marc D. Tall, Mayor
Ronald J. Beauchamp, Mayor Pro-Tem
Patricia A. Baribeau, Council Member
Ralph B. Blasier, Council Member
Michael R. Sattem, Council Member

James V. O'Toole, City Manager
Robert S. Richards, CMC City Clerk
Ralph B. K. Peterson, City

City Council Chambers located at: City Hall – 410 Ludington Street – Room C101 – Escanaba MI 49829

The Council has adopted a policy to use a Consent Agenda, when appropriate. All items with an asterisk (*) are considered routine by the City Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member or citizen so requests, in which event, the item will be removed from the General Order of Business and considered in its normal sequence on the Agenda.

Regular Meeting

Thursday, October 6, 2016, at 7:00 p.m.

CALL TO ORDER

ROLL CALL

INVOCATION/PLEDGE OF ALLEGIANCE – Pastor Chris Johnson of the Christ the King Lutheran Church

APPROVAL/CORRECTION(S) TO MINUTES - Regular Meeting – September 15, 2016, Special Meeting September 8, 2016, Joint Meeting -
September 20, 2016

APPROVAL/ADJUSTMENTS TO THE AGENDA

CONFLICT OF INTEREST DECLARATION(S)

PROCLAMATION

BRIEF PUBLIC COMMENT(S)

UNFINISHED BUSINESS - None

PUBLIC HEARING(S)

1. Public Hearing and Adoption - Community Master Plan.

Explanation: A public hearing on the proposed Community Master Plan will be conducted by the City Council. The purpose of the hearing is to provide an opportunity for the public to comment on the proposed Master Plan. Additionally, upon completion of the public hearing, administration is seeking Council approval of the Master Plan, together with all maps.

NEW BUSINESS

1. Approval - Abandonment of Right-of-Way Policy #100616-01.

Explanation: Administration is seeking Council approval of a proposed Abandonment of Right-of-Way Policy which if approved, will outline the process and procedure that must be followed to absolutely abandon all or part of a City right-of-way.

2. Approval - Marina Internal Loan Consolidation and Refinancing Plan.

Explanation: Administration is requesting Council approval to internally refinance two (2) outstanding marina loans by combining the two (2) existing internal loans into a single loan, amortized over 15 years at a rate of three (3%) percent.

3. Approval – Charitable Gaming Resolution – Upper Peninsula Down Syndrome Association.

Explanation: The Upper Peninsula Down Syndrome Association (UPDSA) is seeking Council approval of a resolution that they be recognized as a nonprofit organization operating in the community for the purpose of obtaining a Charitable Gaming License from the State of Michigan. The UPDSA will be conducting raffle fund raisers the upcoming year.

4. Approval - Professional Services Contract - Level 3 Assessor Duties.

Explanation: Administration is seeking Council approval of a professional services agreement with Allied Information Solutions and JuliAnne Kolbe to act as our Level 3 Assessing contract in an amount not to exceed \$4,250 plus travel and other related direct pass through costs in an amount not to exceed \$2,000.

APPOINTMENTS

BOARD, COMMISSION, AND COMMITTEE REPORTS

GENERAL PUBLIC COMMENT

ANNOUNCEMENTS

ADJOURNMENT

Respectfully Submitted

James V. O'Toole
City Manager

**OFFICIAL PROCEEDINGS
CITY COUNCIL
PLANNING COMMISSION
CITY OF ESCANABA, MICHIGAN
Special Council Meeting
Thursday, September 8, 2016**

Pursuit to a special meeting notice posted August 18, 2016, the meeting was called to order by the Honorable Mayor Marc D. Tall at 6:00 p.m. in the Council Chambers of City Hall located at 410 Ludington Street.

Present: Mayor Marc D. Tall, Mayor Pro Tem Ronald J. Beauchamp, Council Members Ralph B. Blasier, and Michael R. Sattem.

Absent: Council Member Patricia A. Baribeau

Beauchamp moved, Blasier seconded, **CARRIED UNANIMOUSLY**, to excuse Council member Baribeau

Planning: Vice Chairperson Kelvin Smyth, Commission Members Thomas Warstler, Brian Black, Morley Diment, Paul Caswell, James Hellermann, Roy Webber, and Christine Williams.

Absent: One Vacancy

Also Present: City Manager James V. O'Toole, Robert S. Richards City Clerk, Executive Secretary Lisa Glish, Media and members of the public.

Planning Members Williams moved, Warstler seconded, **CARRIED UNANIMOUSLY**, to approve Planning Commission Meeting Minutes from July 14, 2016, as submitted.

Council Members Beauchamp moved, Sattem seconded, **CARRIED UNANIMOUSLY**, to approve the agenda as submitted.

CONFLICT OF INTEREST DECLARATION – None

UNFINISHED BUSINESS – None

PUBLIC HEARING(S)

Public Hearing – Community Master Plan.

A public hearing on the proposed Community Master Plan was conducted by the Planning Commission and the Escanaba City Council. The purpose of the hearing was to provide an opportunity for the public to comment on the proposed City's Master Plan. Additionally, as part of the public hearing process, administration sought Planning Commission approval to forward the Master Plan, together with all maps to the Escanaba City Council for review, public hearing, adoption and implementation as defined by the Michigan Planning Enabling Act, PA 33 of 2008.

City Manager O'Toole provided a brief synopsis of what had occurred to date, and presented a short video of the 2016 City of Escanaba Master Plan.

Emma DeGan of CUPPAD advised the comment period would shortly end, and provided a brief overview of the Master Plan. She advised one comment was received. (See Attachment – A)

This being a Public Hearing, Mayor Tall asked if there was any public comment.

Hearing no public comment, Mayor Tall closed the public hearing.

Planning Commission comments:

- Layers on some of the GIS maps were not aligned properly. Planning Commission Members suggested a note be put in the plan;
- County Townships did not submit any comments.

PH-1 After further discussion, Planning Commission Member Williams moved, Planning Commission Member Warstler seconded, to approve the draft Master Plan with rewording of Section 6.6, wildlife, on page 48, and to approve the following resolution:

RESOLUTION CITY OF ESCANABA MASTER PLAN ADOPTION

WHEREAS, The Michigan Planning Enabling Act, PA 33 of 2008, provides that the Planning Commission may prepare a Master Plan and accompanying maps for use as a guide for development within the City of Escanaba; and

WHEREAS, The Planning Commission notified each municipality contiguous to the City of Escanaba, the Delta County Planning Commission, each public utility company and railroad company owning or operating a public utility or railroad within the City of Escanaba, and other agencies for purposes of notification, of its intent to adopt a Master Plan and accompanying maps; and

WHEREAS, The Planning Commission encouraged public participation during the planning process via regular Planning Commission meetings, a Master Plan workshop, and online and paper surveys; and

WHEREAS, The proposed Master Plan and accompanying maps were submitted to the City of Escanaba Council, who authorized distribution of the proposed Master Plan; and

WHEREAS, The proposed Master Plan and accompanying maps were distributed to each municipality contiguous to the City of Escanaba, the Delta County Planning Commission, each public utility company and railroad company owning or operating a public utility or railroad within the City of Escanaba, and other agencies who responded to the notice of intent for purposes of notification, for review and comment; and

WHEREAS, The plan was presented to the public at a public hearing held on

City Council Minutes
September 8, 2016 – continued

September 8, 2016, before the Planning Commission, and the Planning Commission recommended adoption of the Master Plan and accompanying maps by the City of Escanaba City Council.

THEREFORE BE IT RESOLVED, The City of Escanaba Planning Commission hereby approves and adopts the Master Plan, together with all maps attached to and contained herein, as per the requirements of the Michigan Planning Enabling Act. PA 33 of 2008.

Ayes: Williams, Warstler, Black, Diment, Webber, Caswell, Smyth
Nays: Hellermann

RESOLUTION DECLARED ADOPTED.

NEW BUSINESS

Update/Approval – House of Ludington Rehabilitation Project and First Reading of Payment In Lieu of Taxes Ordinance No. 1174 & Municipal Services Agreement – LC Consultants, LLC.

The City Council, Planning Commission and public were updated on the proposed project to renovate and upgrade the property located at 223 Ludington Street and 216 1st. Avenue South. Additionally, LC Consultants, LLC, requested the City Council authorize a payment in lieu of taxes Ordinance No. 1174 and Municipal Services Agreement which would allow them to seek funding from the State of Michigan Tax Credit Program for the renovation of the property. Administration further requested Ordinance No. 1174 and the Municipal Services Agreement be set for a second reading, public hearing and adoption at the regularly scheduled City Council meeting scheduled for September 15, 2016.

Manager O'Toole briefly reviewed the project, and advised the entire project would remain the same except to change the name of the Developer in the Ordinance and Municipal agreement.

Bob Jacobson of LC Consultants, LLC introduced himself and his company, and briefly reviewed the project, and what would be needed for approval by MISHDA for the project to be approved. Mr. Jacobson also provided a short presentation of other projects their firm completed in Michigan.

City resident Steve Messimer, stated that the plan looked good, but was still concerned about the parking. When asked if the proposed parking would stay the same, City Manager O'Toole advised the plan was proposed to be approved as previously submitted.

NB-1 Hearing no further discussion, Blasier moved, Beauchamp seconded, to set September 15, 2016, as second reading and public hearing of Ordinance No. 1174, and approval of the Municipal Services Agreement.

Ayes: Blasier, Beauchamp, Sattem, Tall
Nays: None

MOTION CARRIED.

GENERAL PUBLIC COMMENT

Peggy O’Connell thanked Council for their work on the Master Plan and its approval, and reviewed scheduled upcoming Downtown Business events.

City resident David Schwalbach asked that Mr. Jacobson of LC Consultants, LLC meet with the neighbors if possible and asked to receive information regarding the average rent payments.

COMMISSION/STAFF COMMENT AND ANNOUNCEMENTS

Hearing no further business or public comment, the meeting adjourned at 6:57 p.m.

Respectfully submitted,

Robert S. Richards, CMC
City Clerk

Approved: _____
Marc. D. Tall, Mayor

**OFFICIAL PROCEEDINGS
CITY COUNCIL
CITY OF ESCANABA, MICHIGAN
Regular Council Meeting
Thursday, September 15, 2016**

The meeting was called to order by the Honorable Mayor Marc D. Tall at 7:00 p.m. in the Council Chambers of City Hall located at 410 Ludington Street.

Present: Mayor Marc D. Tall, Council Members, Ralph B. Blasier, Patricia A. Baribeau, Ronald J. Beauchamp, and Michael R. Sattem.

Absent: None

Also Present: City Manager James V. O'Toole, City Department Heads, media, and members of the public.

City Clerk Robert Richards, gave the invocation and led Council in the Pledge of Allegiance.

Sattem moved, Blasier seconded, **CARRIED UNANIMOUSLY**, to approve Regular Meeting Minutes from September 1, 2016, as submitted.

ADJUSTMENTS TO THE AGENDA

Beauchamp moved, Baribeau seconded, **CARRIED UNANIMOUSLY**, to approve the City Council Agenda as submitted.

CONFLICT OF INTEREST DECLARATION

Council Member Sattem advised he had a conflict of interest with agenda item No. 2, and would be abstaining.

BRIEF PUBLIC COMMENT – None

PROCLAMATION

Mayor Tall congratulated William J. Saykly, Department of Public Works, with a Certificate of Meritorious Service Award and Proclaimed Thursday September 15th as William J. Saykly Day in the City of Escanaba upon his retirement. Mayor Tall directed Administration to present Mr. Saykly with his Certificate of Merit and Proclamation upon his retirement.

UNFINISHED BUSINESS – None

PUBLIC HEARINGS

Second Reading – Ordinance No. 1174 – An Ordinance to Amend Chapter 26 – Taxation of the Code of Ordinances of the City of Escanaba - Renovations and Upgrading of 223 Ludington Street and 216 1st Avenue South.

A second public hearing on a request from HOL Limited Dividend Housing Association was conducted which authorizes a payment in lieu of taxes and Municipal Services Agreement on their proposed project to renovate and upgrade the property located at 223 Ludington Street and 216 1st. Avenue South. HOL Limited Dividend Housing Association, LLC, sought funding from the State of Michigan Tax Credit Program for the renovation and upgrading of the properties and approval of such an ordinance was required by the Michigan State Housing Development Authority as part of their application for funding.

Manager O’Toole briefly reviewed the PILT payment schedule.

This being a Public Hearing, Mayor Tall asked if there was any public comment.

Hearing no public comment, Mayor Tall closed the public hearing.

When questioned on whether the House of Ludington restaurant would still stay, Mr. Jacobson and there would still be public space, and depending Engineering and funds, there could still be a restaurant.

PH-1a By Council Member Blasier, seconded by Council Member Sattem;

Resolved, That Ordinance No. 1174, an Ordinance to Amend Chapter 26, Taxation, of the Code of Ordinances of the City of Escanaba, given its public hearing at this meeting, be and is hereby adopted and that it be published in accordance with the requirements of the City Charter."

Upon a call of the roll, the vote was as follows:

Ayes: Blasier, Sattem, Baribeau, Beauchamp, Tall
Nays: None

RESOLUTION DECLARED ADOPTED.

Herewith Ordinance No. 1166 adopted by title:

"AN ORDINANCE TO AMEND CHAPTER 26 - TAXATION OF THE CODE OF ORDINANCES OF THE CITY OF ESCANABA."

Full text in Ordinance Record "K".

PH-1b Beauchamp moved, Sattem seconded, **CARRIED UNANIMOUSLY**, to approve Municipal Services Agreement

MOTION CARRIED.

NEW BUSINESS

Approval – Traffic Control Order (TCO) No. 990 - Department of Public Safety.

Administration sought Council approval of Traffic Control Order (TCO) No. 990. The Traffic Control Order calls for the installation of (2) Speed Limit signs of 15 MPH (Prima Facie) be placed on Aronson Island. On August 16, 2016 the Traffic Safety Advisory Committee met and recommended City Council approval of TCO No. 990.

NB-1 Baribeau moved, Beauchamp seconded, **CARRIED UNANIMOUSLY**, to approve of Traffic Control Order (TCO) No. 990, for the installation of (2) Speed Limit signs of 15 MPH (Prima Facie) be placed on Aronson Island.

Approval – Approval – Use of Public Space – Municipal Dock – United Way of Delta County - Uptoberfest.

The United Way of Delta County, in conjunction with the Bay de Noc Brewer's Homebrew Club, requested Council approval to use the City Municipal Dock on October 8, 2016, from 2:00 p.m. to 7:00 p.m. for their annual United Way of Delta County Uptoberfest. Additionally, the United Way of Delta County asked for City Council to approve a request for the City to provide snow fence and posts, garbage carts, including pickup, and picnic tables. Administration recommended approval with the following conditions: 1) Proper insurance be provided naming the City of Escanaba as an additional insured, 2) The event sponsors provide all labor and material to clean up at the conclusion of the event, and 3) The event sponsor pay for any overtime City labor costs that may be incurred.

NB-2 Blasier moved, Beauchamp seconded, **CARRIED UNANIMOUSLY**, to approve a request from The United Way of Delta County, in conjunction with the Bay de Noc Brewer's Homebrew Club, to use the City Municipal Dock on October 8, 2016, from 2:00 p.m. to 7:00 p.m. for their annual United Way of Delta County Uptoberfest, in addition, provide snow fence and posts, garbage carts, including pickup, and picnic tables, with the following conditions: 1) Proper insurance be provided naming the City of Escanaba as an additional insured, 2) The event sponsors provide all labor and material to clean up at the conclusion of the event, and 3) The event sponsor pay for any overtime City labor costs that may be incurred.

Ayes: Blasier, Beauchamp, Baribeau, Tall

Nays: None

Abstain: Sattem

APPOINTMENT(S) TO CITY BOARDS, COMMISSIONS, AND COMMITTEES – None

BOARD, COMMISSION, AND COMMITTEE REPORTS

Council Members reviewed City Board and Commission meetings each attended since the last City Council Meeting.

GENERAL PUBLIC COMMENT – None

ANNOUNCEMENTS

The following events were scheduled:

- 10/01/2016 - Harvest of Harmony;
- 10/08/2016 – Uptoberfest;
- 10/27/2016 - 5th Annual "Fur"Raiser: Pets for President.

Hearing no further public comment, the Council adjourned at 7:14 p.m.

Respectfully submitted

Robert S. Richards, CMC
City Clerk

Approved: _____
Marc D. Tall, Mayor

OFFICIAL PROCEEDINGS
CITY COUNCIL
ELECTRICAL ADVISORY COMMITTEE
CITY OF ESCANABA, MICHIGAN
Special Joint Meeting
Tuesday, September 20, 2016

Pursuit to a meeting notice posted August 17, 2016, the meeting was called to order by the Mayor Marc D. Tall at 4:00 p.m. in the Council Chambers of City Hall located at 410 Ludington Street.

Present: Mayor Marc D. Tall, Council Members, Patricia A. Baribeau, Ronald J. Beauchamp, Ralph B. Blasier, and Michael R. Sattem.

Absent: None.

Present: Electrical Advisory Committee (EAC) Members: Chairperson Tim Wilson, John Anthony (left at 5:14 p.m.), Glendon Brown, and John Mellinger.

Absent: Electrical Advisory Committee Member Ann Bissell.

Also Present: City Manager James V. O'Toole, Deputy City Clerk Tammy Weissert, Electric Superintendent Mike Furmanski, Power System Engineering (PSE) Representatives Tom Butz, and members of the public and media.

ADJUSTMENTS TO THE AGENDA

Blasier moved, Sattem seconded, **CARRIED UNANIMOUSLY**, to approve the Joint City Council & Electrical Advisory Committee Agenda as submitted.

CONFLICT OF INTEREST – None

UNFINISHED BUSINESS – None

NEW BUSINESS

Update – Electric Department –General Operations.

Electric Superintendent Mike Furmanski provided an update on departmental projects and operations at 3rd Avenue North, OSF St. Francis Hospital, and Red Pines Industrial Park.

Discussion/Presentation(s) – Future Power Purchases.

City Council and Electrical Advisory Committee heard from representatives from NextEra and Great Lakes Utilities (GLU) power provider who presented various options available to the City regarding future power purchases through 2024.

NextEra Energy, Inc. provided a power point presentation regarding various options

available to the City regarding future power purchases. (See Attachment – A)

Great Lakes Utilities (GLU) provided a power point presentation regarding various options available to the City regarding future power purchases. (See Attachment – B)

After discussion, Council directed Administration to provide a recommendation for future power purchases in the next 30 days.

GENERAL PUBLIC COMMENT – None

COUNCIL/COMMITTEE, STAFF REPORTS – None

ADJOURNMENT

Hearing no further public comment, or further reports from the Electrical Advisory Committee or Council, the meeting adjourned at 6:12 p.m.

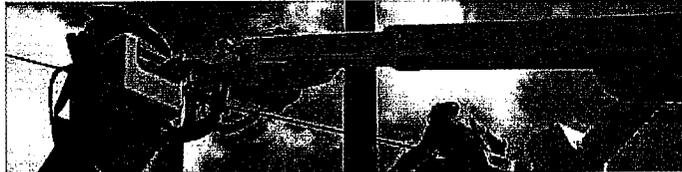
Respectfully submitted,

Tammy Weissert
Deputy City Clerk

Approved: _____
Marc D. Tall, Mayor



City of Escanaba Power Supply Proposal



September 20, 2016

Proprietary & Confidential Information

NextEra Energy, Inc. is a Fortune 200 corporation with two principal subsidiaries, Florida Power & Light and NextEra Energy Resources

NextEra Energy, Inc. Overview



\$55 billion market capitalization⁽¹⁾
46 GW in operation⁽²⁾
\$82 billion in total assets
Strategic partnership with **NEXTERA ENERGY PARTNERS**



One of the largest electric utilities in the nation by retail MWh electric sales



The leader in North America in electricity generated from the wind and sun

Project Development

Hedging, Asset Optimization, & Risk Management

Presence in all major North American power markets

(1) As of March 30, 2016; Source: FactSet

(2) Megawatts shown include Megawatts sold to NextEra Energy Partners as of December 31, 2015

Note: All other data as of December 31, 2015

Proprietary & Confidential Information

2

Credit Ratings

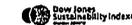
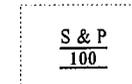
	Fitch	Moody's	S&P
NextEra Energy, Inc.			
Corporate Credit Rating	A-	Baa1	A-
Outlook	Stable	Stable	Stable
NextEra Energy Capital Holdings, Inc.*			
Sr. unsecured debentures	A-	Baa1	BBB+
Commercial paper	F-1	P-2	A-2
Outlook	Stable	Stable	Stable
Florida Power & Light			
First mortgage bonds	AA-	Aa2	A
Commercial paper	F-1	P-1	A-2
Outlook	Stable	Stable	Stable

* NextEra Energy Capital Holdings, Inc. is the guarantor of NextEra Energy Power Marketing, LLC.



NextEra Energy, Inc. is an industry and environmental leader

- Recognized as one of Fortune Magazine's "America's Most Admired®" companies for 10 consecutive years and #1 among utilities for 9 of the last 10 years (2007-2014, 2016)
- Acknowledged as one of the "World's Most Ethical Companies" by *Ethisphere* magazine (2007-2011, 2013-2016)
- Named to the Forbes "100 Most Trustworthy Companies in America" (2015)
- In 2016, joined the S&P 100 Index, a subset of 100 large cap, blue chip companies within the S&P 500
- Named in 2009, 2010, 2011 and 2012 to the Dow Jones Sustainability Index (DJSI)



Over the last decade, NextEra Energy, Inc. has been consistently recognized for excellence

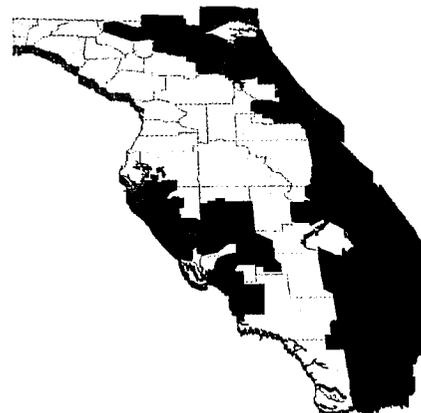
Proprietary & Confidential Information
3



FPL has a long history of successfully operating and serving customers in Florida

Florida Power & Light

- In operation since 1925
- One of the nation's largest retail rate-regulated electric utilities
- 4.8 MM customer accounts
- 26.5 GW in operation⁽¹⁾
- Service reliability greater than 99.98%
- FPL's typical residential bill is the lowest in FL and well below the national average⁽²⁾



(1) As of April 2016
 (2) Rates based on a typical 1,000 kWh residential bill in 2015
 Note: All other data as of March 31, 2016
 Proprietary & Confidential Information

4



NextEra Energy Resources continues to be an important and growing part of the success at NextEra Energy, Inc.

NEER is a large U.S. based wholesale energy provider

- Portfolio includes 143 operating projects in 25 states and Canada
- The largest owner of wind and utility-scale solar energy projects in North America
 - More than 12,400 MW of wind capacity at 100 facilities⁽¹⁾
 - More than 1,000 MW of solar capacity in U.S. and Canada⁽¹⁾
- Experienced in managing and marketing a diverse range of power projects
- An active and experienced competitor in the wholesale power and fuels markets

Approximately 99% of NEER electricity is produced from clean or renewable sources including wind, solar, natural gas, and nuclear energy

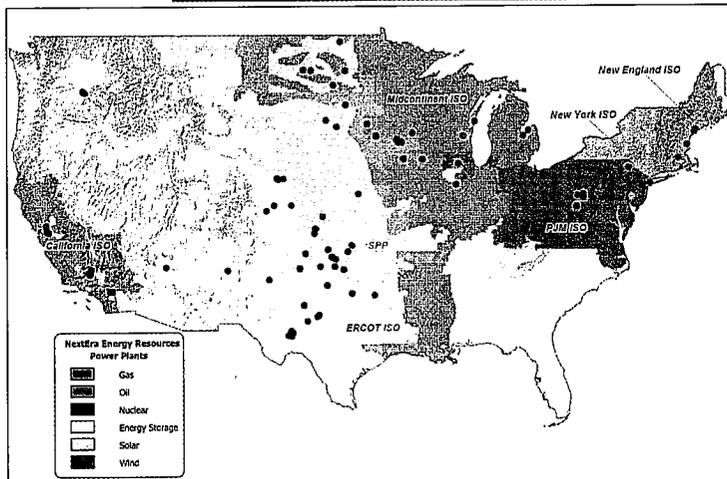
(1) Includes MW owned by NextEra Energy Partners portfolio
Note: All data updated as of December 31, 2015

Proprietary & Confidential Information
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NextEra Energy Resources provides primarily wholesale power to utilities, municipalities, and customers across North America via generation assets

NEER Generation Portfolio



(1) Generation portfolio as of 6/30/16, includes MW owned by NextEra Energy Partners portfolio.

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Source: Velocity Suite, ABB Enterprise Software



NextEra Power Marketing (NEPM) is the energy marketing and trading arm of NextEra Energy Resources

NextEra Energy Power Marketing LLC

- **A top five power marketer**
- **Market maker in many products across the power trading landscape**
 - Active in power, fuel, capacity, basis and renewable credits markets
- **Proven track record of executing structured transactions**
 - Full requirements service; term power and fuel purchase/supply agreements; unit contingent arrangements
- **Manages the power marketing and fuel acquisition needs for all of NextEra Energy Resources' merchant asset portfolio**
- **Third-party energy management services book of over 6,800 MW**

Proprietary & Confidential Information

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Disclaimer

This presentation was prepared by NextEra Energy Power Marketing, LLC ("NEPM") exclusively for the City of Escanaba's benefit and internal use. This presentation was prepared in order to assist in evaluating a possible transaction or transactions and does not convey any right of publication or disclosure, in whole or in part, to any other party. These materials are provided for discussion purposes only and are incomplete without reference to, and should be viewed only in connection with, the accompanying oral presentation provided by NEPM. Such materials are presented for discussion purposes only and are not an offer or a commitment of NEPM or any parent or affiliate of NEPM. The transaction or transactions described herein is subject to further review and approval of NEPM and may require revised or additional provisions or the execution of other agreements. Without limiting any of the foregoing, credit approval will be required for this transaction and all of its terms and provisions. Please also be advised that NEPM makes no representations as to the actual value which may be received in connection with a transaction, nor the legal, tax or accounting effects of consummating a possible transaction. Neither this presentation nor any of its contents may be disclosed by the Company without the prior written consent of NEPM.

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8





Great Lakes Utilities

For

City of Escanaba

September 20, 2016



1

Outline of Presentation

- Introduction
- GLU Organization
- Escanaba Current Power Supply
- GLU Risk Management Strategy
 - ❖ Power Supply Planning
 - ❖ Daily Operations
- Summary
- Discussion/Questions



2

What is Great Lakes Utilities

- Great Lakes Utilities (GLU) is a municipal – **Joint Action Agency** formed under Wisconsin Statutes, Section 66.0825
- GLU was formed on February 15, 2000 as a “**project based**” agency - an alternative to the “full requirements” joint action agency model.
 - Only such agency in Wisconsin/Upper Michigan offering a full range of services, including power supply
 - Member chooses level of participation in projects – more autonomy
- GLU is a public body but does not have taxing power



3

Membership of GLU

Existing Members:

Bangor Municipal Utility
Clintonville
Cornell Municipal Electric Utility
Escanaba
Kiel Electric Utility
Manitowoc Public Utilities
Marshfield Electric & Water
Medford Electric Utility
Shawano Utilities
Trompealeau Municipal Electric Department
Wisconsin Rapids Water & Light



4

GLU – Aggregated Demand (capacity) and Energy

	2015 Peak Demand (MW)	2015 Load (MWh)	Load Factor
Bangor	5.6	27,725	56.86%
Clintonville	19.5	118,975	69.51%
Wis. Rapids	54.9	277,476	57.74%
Trempealeau	3.9	15,529	44.94%
Kiel	16.0	87,105	62.03%
Cornell	2.5	13,174	59.00%
Medford	24.1	129,886	61.59%
Escanaba	28.0	145,462	59.26%
Shawano	53.6	265,186	56.52%
Manitowoc	102.6	549,173	61.12%
Marshfield	69.0	384,389	63.59%
	379.7	2,014,079	60.55%



5

Mission and Vision

- Mission Statement
 - *Great Lakes Utilities is dedicated to provide its member public power communities a reliable and low cost wholesale power supply.*

- Vision Statement
 - *Enhance the benefits of municipal public power ownership*
 - *Develop economical and competitive power supply plans and projects*



6

GLU - Benefits of Joint Action Project Based Agency

- Allows members to buy lower cost power together through competitive pricing.
- Hence more and lower cost purchase options than as individual City/Utilities.
- Attracts **multiple** wholesale power suppliers interested in doing deals – IPP, Power Marketers, IOU, cooperatives, etc.
- Lowers purchased power needs through aggregation of load i.e. economies of scale
- GLU as a Project agency allows member Cities to choose the level of service desired.



7

How is GLU Organized?

- Board is made up of representatives from each municipality
- As a project agency, GLU's members participate in projects or services required of their choice
- When fewer than all members participate in a project or service, a project committee is formed to manage all aspects of the project with only those members with similar interest
- Decisions of the project committee are submitted to the GLU Board for formal approval or disapproval; however, the Board may not alter, amend, or modify project committee decisions.



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How is GLU Organized?

Board of Directors

Bangor (S. Baker)	Clintonville (B. Ellickson)
Cornell (D. DeJongh, Treas.)	Escanaba, MI (M. Furmanski)
Kiel (D. Dederling, Secretary)	Manitowoc (N. Kothari)
Marshfield (B. Trussoni)	Medford (J. Fales)
Shawano (B. Knapp, Vice Chair)	
Trempealeau (K. Wood)	
Wisconsin Rapids (J. Brown, Chair)	

Lakeswind Project Committee
(John Fales)

Power Supply Committee
(Jem Brown)

GLU West Project Committee
(Dave DeJongh)

Administrative and Operating Services (MPU)



9

GLU Committees

Power Supply Committee

- Total peak load over 200 MW in MISO Zone 2
- Full or partial power supply provided to members in ATC footprint since 2004
- Large pool reduces risk
- Provide long-term stable rates
- Oversee power supply related activities like MISO, ATC, NAEMA – power marketers, power supply contracts, etc.

MISO Energy Services Committee

- Provides MISO market services under GLU umbrella
- 24-hour desk on an as needed basis to members
- Reduce costs for members by avoiding duplication
- Monitor changing MISO market filings at FERC on the regulations



10

GLU Committees

Wind Project Committee

- Formed to allow members to participate in Lakeswind project
- Allows project to be managed as one facility
- The operational costs are distributed according to the member's allocated percentage of the project
- Project in MISO Zone 1

GLU-West Power Supply Committee

- Formed in 2013; MISO Zone 1
- Initiated Power Supply Planning Process for GLU-West members
- Obtained favorable energy prices for 2018 thru 2024
- Obtained favorable capacity prices to serve member needs beginning in 2016
- Long-term full requirements contracts signed with GLU in 2014



11

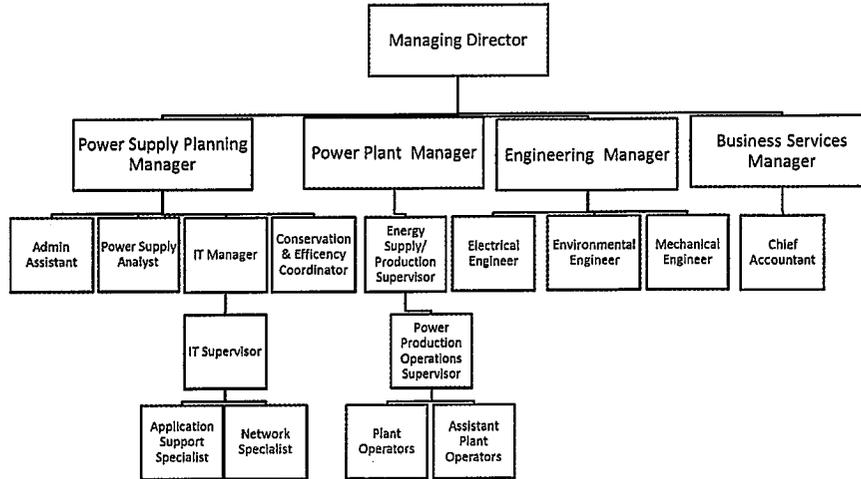
How is GLU Managed?

- Administrative and operational services provided under agreement with Manitowoc Public Utilities and overseen by GLU Board of Directors
- Why MPU (win-win situation):
 - Largest Municipal public power utility in Wisconsin
 - Only base load generating municipal utility in WI with over 100 years of experience
 - Total generating capacity: 105 MW
 - Peak load of 105 MW
 - Annual operating budget of \$70 million
 - Number of Employees: 90
 - 24 hour operation
- Outside Consultants & Energy Advisors as required.



12

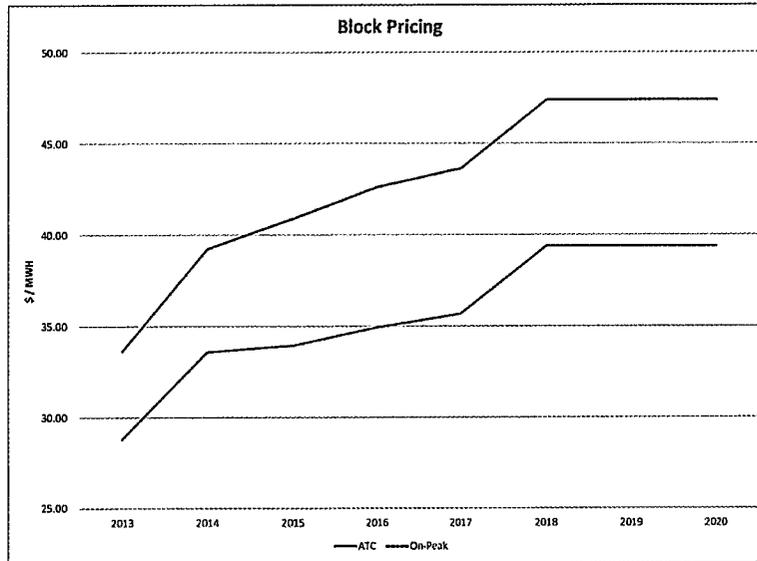
MPU Resources Shared with GLU (MISO Zone 1 & 2)



Escanaba Current Power Supply



Block Energy Pricing from Annual RFPs



ATC = Around the Clock (7 days – 24 hours), On-Peak = M-F, 6a – 10p

15

Energy Only Comparisons – PY13/14 & PY 14/15

PY2013-14 Block w FTR				PY2014-15 Block w FTR			
	Volume (MWhs)	Average Rate (\$/MWh)	Total Cost		Volume (MWhs)	Average Rate (\$/MWh)	Total Cost
Baseload block			2,771,148	Baseload block			2,952,276
Baseload balancing			(215)	Baseload balancing			(1,446)
Base Load	87,589.0	\$ 31.64	\$ 2,770,933	Base Load	87,547.1	\$ 33.71	\$ 2,950,830
Intermediate block			2,106,096	Intermediate block			\$ 1,982,515
Intermediate balancing			(209,408)	Intermediate balancing			\$ 188,170
Intermediate Load	62,432.6	\$ 30.38	\$ 1,896,688	Intermediate Load	58,087.6	\$ 37.37	\$ 2,170,685
Peaking block			-	Peaking block			\$ -
Peaking balancing			29,939	Peaking balancing			\$ 22,262
Peaking Load	412.3	\$ 72.61	\$ 29,939	Peaking Load	108.2	\$ 205.79	\$ 22,262
FTR Cost			\$ 834,150	FTR Cost			\$ 540,349
GLU Services			\$ 50,000	GLU Services			\$ 50,000
	150,433.9	\$ 37.10	\$ 5,581,710		145,742.8	\$ 39.34	\$ 5,734,125

PY2013-14 Load Following				PY2014-15 Block w FTR			
	Volume (MWhs)	Average Rate (\$/MWh)	Total Cost		Volume (MWhs)	Average Rate (\$/MWh)	Total Cost
Base Load	87,589.0	\$ 57.10	\$ 5,001,330	Base Load	87,547.1	\$ 57.10	\$ 4,998,939
Intermediate Load	62,432.6	\$ 57.10	\$ 3,564,903	Intermediate Load	58,087.6	\$ 57.10	\$ 3,316,800
Peaking Load	412.3	\$ 57.10	\$ 23,543	Peaking Load	108.2	\$ 57.10	\$ 6,177
FTR Cost			\$ -	FTR Cost			\$ -
	150,433.9	\$ 57.10	\$ 8,589,776		145,742.8	\$ 57.10	\$ 8,321,916



FTR = Financial Transmission Rights – used for congestion hedging

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Power Supply Planning



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Objectives of Power Supply Planning

- Provide reliable low cost power with **minimal cost risks**
- Develop flexible plan that allows utility to:
 - Take advantage of low market prices and
 - Decrease **risk of cost** during market extreme high scenario
- Utilize past experiences and anticipate future events – MPU's 40+ years and GLU's 10+ years of experience.



18

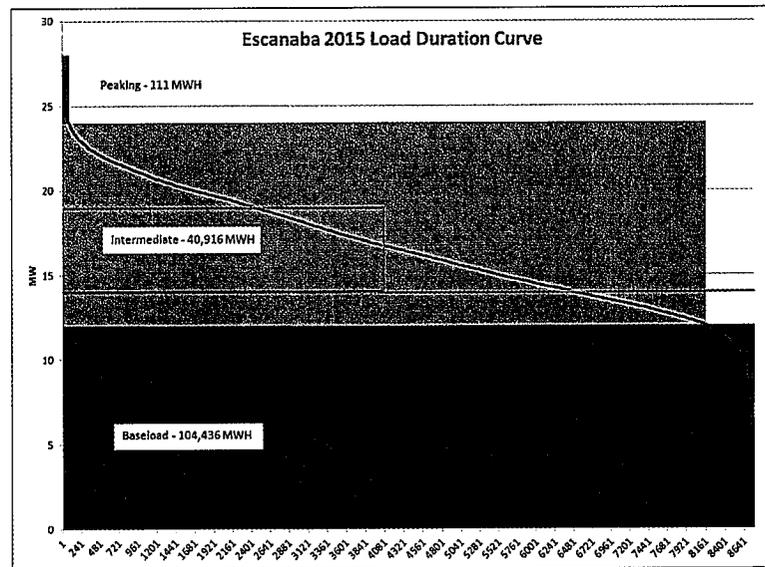
Planning Steps

- Gather Information on Load Profiles
- Develop Load Duration Curves (Current & Future)
- Define and Match Potential Resources to Load
- Issue Request for Proposals (compliment with own resources, if any)
- Review proposals and negotiate power supply Agreement
- Develop Power Supply Plan – Scenario Analysis/Models
 - Long Term
 - Intermediate Term
 - Short Term



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Load Duration Curve – Escanaba



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GLU Power Supply Portfolio – Risk Management

- Power Supply portfolio consists of a diverse set of power supply resources
 - Long-Term contracts – WE, WPS, Alliant, etc.
 - Intermediate contracts – Calpine, Ameren, EDF
 - Leased generation assets - MPU
 - Short-Term contracts or market purchases – MISO, Cargill, NextEra
- Power supply resources have varying levels of flexibility that allows the supply to be adjusted to meet member requirements or take advantage of market conditions
- Scenario analysis studies to determine the exposure limits of various power supply portfolios
- Energy purchase transactions at load nodes or FTRs purchased to hedge delivery risk



21

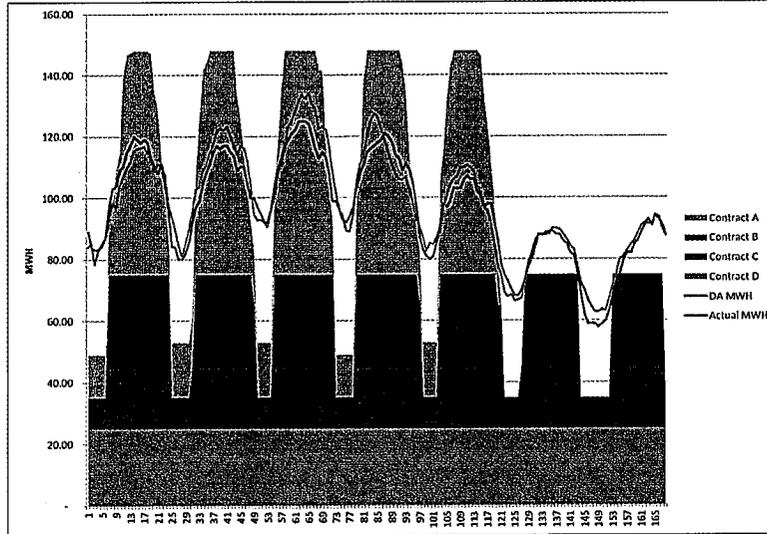
Load Management Process – Risk Management

- No active management (“do-nothing”) results in actual load volumes being purchased at Real-Time (RT) market prices
- Active management incrementally reduces volatility (risk) by:
 - Purchasing forecasted load volumes in the Day-Ahead (DA) market
 - Entering into bilateral contracts with counterparties
 - Acquiring FTRs (Financial Transmission Rights) to hedge locational pricing differences between load and contract settlement points



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Load balancing & Risk Mitigation Example



23

GLU Power Supply Pool – Budget Performance

	Budgeted			Actual		
	Revenues	Expenses	Net	Revenues	Expenses	Net
2011	\$52,888,115	\$52,008,313	\$ 879,802	\$61,883,120	\$59,496,547	\$ 2,386,573
2012	\$79,778,734	\$78,997,159	\$ 781,575	\$82,354,049	\$76,557,058	\$ 5,796,991
2013	\$76,316,413	\$75,162,979	\$1,153,434	\$76,955,487	\$72,219,867	\$ 4,735,620
2014	\$77,409,541	\$74,803,134	\$2,606,407	\$77,272,270	\$78,027,007	\$ (754,737)
2015	\$79,597,545	\$79,676,745	\$ (79,200)	\$78,447,760	\$74,159,816	\$ 4,287,944
2016	\$46,456,010	\$46,262,375	\$ 193,635	\$45,570,379	\$42,014,305	\$ 3,556,074

- Net income – used for rate stabilization, rate reduction or returned to members
- GLU’s current cash reserves is \$20 million



24

Summary

- GLU is Project Agency – Members choose service required
- Escanaba’s current method of purchasing energy:
 - Limited to one supplier for energy – Does not result in lowest price
 - Escanaba capacity purchase through GLU’s competitive pricing
 - GLU has been providing MISO services to Escanaba
- Utilize past experiences and anticipate future events – MPU’s 40+ years and GLU’s 10+ years of experience



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Summary

- GLU’s Power Supply Experience
 - An annual power supply plan process in place
 - Manage load and supply resources on a daily basis
 - Risk management protocols in place
 - Operational Procedure Manual in place to guide daily operations
 - Multiple MPU employees involved with the daily operations
 - Successfully managing GLU power supply pool & West separately
 - GLU has a proven track record of supplying affordable, reliable power supply for its members since 2008



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Discussion

- What are Escanaba's concerns/issues:
 - Should Escanaba enter into a long term contract now or wait?
 - Benefits of energy purchase through GLU?
 - How does GLU manage risk: self-insured versus fixed price assurance?
 - Development of Escanaba's rate stabilization fund for risk management?
 - Process and time-frame for developing interim or long-term contract with GLU?
 - Should/can GLU create a partnership with NextEra?
 - How Escanaba-GLU can further strengthen relations?



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Discussion/Questions



28

Excerpt of the minutes of a special joint meeting meeting of the Escanaba City Council and City Planning Commission held on September 8, 2016, at the City Hall, 410 Ludington Street, Escanaba, Michigan, at 6:00 p.m.

Present: Mayor Marc D. Tall, Council Members, Ronald J. Beauchamp, Ralph B. Blasier, and Michael R. Satterm

Absent: Council Member Patricia A. Baribeau

Planning: Vice Chairperson Kelvin Smyth, Commission Members Thomas Warstler, Brian Black, Morley Diment, Paul Caswell, James Hellermann, Roy Webber, and Christine Williams.

Absent: One Vacancy

"PH-1 Resolved By Planning Commission Member Williams, seconded by Planning Commission Member Warstler:

RESOLUTION

CITY OF ESCANABA MASTER PLAN ADOPTION

WHEREAS, The Michigan Planning Enabling Act, PA 33 of 2008, provides that the Planning Commission may prepare a Master Plan and accompanying maps for use as a guide for development within the City of Escanaba; and

WHEREAS, The Planning Commission notified each municipality contiguous to the City of Escanaba, the Delta County Planning Commission, each public utility company and railroad company owning or operating a public utility or railroad within the City of Escanaba, and other agencies for purposes of notification, of its intent to adopt a Master Plan and accompanying maps; and

WHEREAS, The Planning Commission encouraged public participation during the planning process via regular Planning Commission meetings, a Master Plan workshop, and online and paper surveys; and

WHEREAS, The proposed Master Plan and accompanying maps were submitted to the City of Escanaba Council, who authorized distribution of the proposed Master Plan; and

WHEREAS, The proposed Master Plan and accompanying maps were distributed to each municipality contiguous to the City of Escanaba, the Delta County Planning Commission, each public utility company and railroad company owning or operating a public utility or railroad within the City of Escanaba, and other agencies who responded to the notice of intent for purposes of notification, for review and comment; and

WHEREAS, The plan was presented to the public at a public hearing held on September 8, 2016, before the Planning Commission, and the Planning Commission recommended adoption of the Master Plan and accompanying maps by the City of Escanaba City Council.

Mission Statement:



Enhancing the enjoyment and livability of our community by providing quality municipal services to our citizens.
The City of Escanaba is an equal opportunity employer and provider.

THEREFORE BE IT RESOLVED, The City of Escanaba Planning Commission hereby approves and adopts the Master Plan, together with all maps attached to and contained herein, as per the requirements of the Michigan Planning Enabling Act. PA 33 of 2008.

Ayes: Williams, Warstler, Black, Diment, Webber, Caswell, Smyth

Nays: Hellermann

RESOLUTION DECLARED ADOPTED."

STATE OF MICHIGAN)

ss)

COUNTY OF DELTA)

I the undersigned, being duly qualified and acting City Clerk of the City of Escanaba, do hereby certify that the foregoing constitutes a true and complete copy of a resolution adopted by the City Planning Commission of the City of Escanaba, County of Delta, Michigan, at a special joint meeting with the Escanaba City Council held on Thursday, September 8, 2016, and that said meeting was conducted and public notice was given pursuant to and in full compliance with the Open Meetings Act, Act 267, Public Acts of Michigan, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.



Robert S. Richards, CMC

City Clerk



Comments Received on the Draft City of Escanaba Master Plan

Wildlife 6.6, page 48 Draft Language:

The State of Michigan has about 420 bird species of migratory birds, with almost 400 species recorded in the Upper Peninsula and 300 in Delta County. The Great Lakes present a formidable challenge to birds navigating these huge inland seas and, as a result, many are forced to concentrate along the shoreline during migration. These stopover areas provide critical resources for birds to continue their journey north. An advantage of the City of Escanaba has in providing great stopover habitat is an incredible diversity of insects to fuel the migration. Ludington Park, Veteran's Park, and other City-owned lots along the waterfront provide habitat for migrating and resident birds. Common species include bald eagles, Caspian and common terns, gulls, ducks, and cranes. Additionally, the Upper Peninsula is one of the most northern regions that support Purple Martins.

In 2012, Escanaba Migratory Bird Enhancement Initiative (EMBEI) received donated plants, funds from the City, and a grant to enhance bird habitat by planting native species and installing nest boxes. In addition to bird species, a variety of amphibians can be found in shoreline areas, including leopard frogs, American toads, gray tree frogs and the eastern garter snake. Mammal species in the city include deer, raccoons, skunks, rabbits, muskrat, mink, and opossum.

Suggested edit by Joe Kaplan on August 24, 2016:

Of the 450 species of birds that have occurred in Michigan just over 400 have been recorded in the Upper Peninsula and nearly 300 species in Delta County. The large inland seas of the Great Lakes present a formidable challenge to birds navigating across the continent and as a result many are forced to concentrate along the shoreline during migration. These stopover areas can provide critical resources for these birds to continue their long journey. Escanaba's coastal areas provide an abundance of emergent insects required to fuel the migration and Ludington Park, Veteran's Park, and other City-owned lots along the waterfront provide habitat for migrating and resident birds. In addition to well-known species such as Bald Eagle and Sandhill Crane the City's forests and marshes support a diversity of flycatchers, orioles, warblers, sparrows, bitterns, terns, and ducks. Additionally, Escanaba is one of last places in the Upper Peninsula that still supports breeding Purple Martins.

Since 2012, the Escanaba Migratory Bird Enhancement Initiative (EMBEI) partnership has received community support and grant money to enhance bird habitat in the City through the planting of native species, control of invasive species, and the placement of nest boxes for cavity nesting birds.

In addition to an abundance of birds, a variety of amphibians can be found in shoreline areas, including leopard frogs, American toads, gray tree frogs and the eastern garter and fox snakes. Mammal species in the city include deer, raccoons, skunks, rabbits, muskrat, mink, and opossum.

Summary of changes to Draft City of Escanaba Master Plan

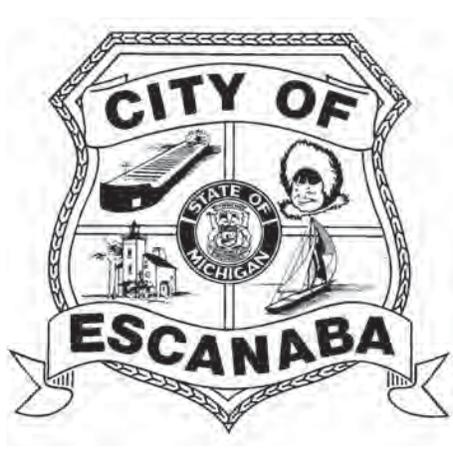
Changes by CUPPAD:

Edit on Page 48, Wildlife Chapter 6.6: Birding edit suggested by Joe Kaplan on August 24, 2016

Edits to Maps 7, 8, & 9 on pages 24, 25, 26: Clipped Census Block polygon to match shoreline.

Edits to Maps 23, 24, 31 & 32 on pages 58, 63, 118 & 119: Noted that "Parcel data may not align with other mapping data. This is not an error, but a difference in data creation."

City of Escanaba 2016 Master Plan



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Present: Mayor Marc D. Tall, Council Members, Ronald J. Beauchamp, Ralph B. Blasier, and Michael R. Sattem

Absent: Council Member Patricia A. Baribeau

Planning: Vice Chairperson Kelvin Smyth, Commission Members Thomas Warstler, Brian Black, Morley Diment, Paul Caswell, James Hellermann, Roy Webber, and Christine Williams.

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Ayes: Williams, Warstler, Black, Diment, Webber, Caswell, Smyth

Nays: Hellermann

RESOLUTION DECLARED ADOPTED."

STATE OF MICHIGAN)

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Robert S. Richards, CMC

City Clerk



Acknowledgments

This plan could not have been developed without the collaboration and cooperation between community leaders, businesses, and residents. The people listed below dedicated their expertise and many hours of their time in order to complete this project.

Planning Commission

Kel Smyth
Roy Webber
Brian Black
Tom Warstler
James Hellermann
Christine Williams
Morely Diamant
Paul Caswell

City of Escanaba Staff

Jim O'Toole, City Manager
Lisa Glish, Executive Assistant
Robert Richards, City Clerk
Blaine DeGrave, Code Enforcement
Kim Peterson, Recreation Director
Bill Farrell, City Engineer
Jeff Lampi, Water and Wastewater Superintendent
Ed Legault, Escanaba DDA Director

Former Planning Commissioners

Steve Buckbee
Patrick Connor

City Council

Marc Tall, Mayor
Ronald Beauchamp, Mayor Pro Tem
Patricia Baribeau
Ralph Blasier
Michael Sattem



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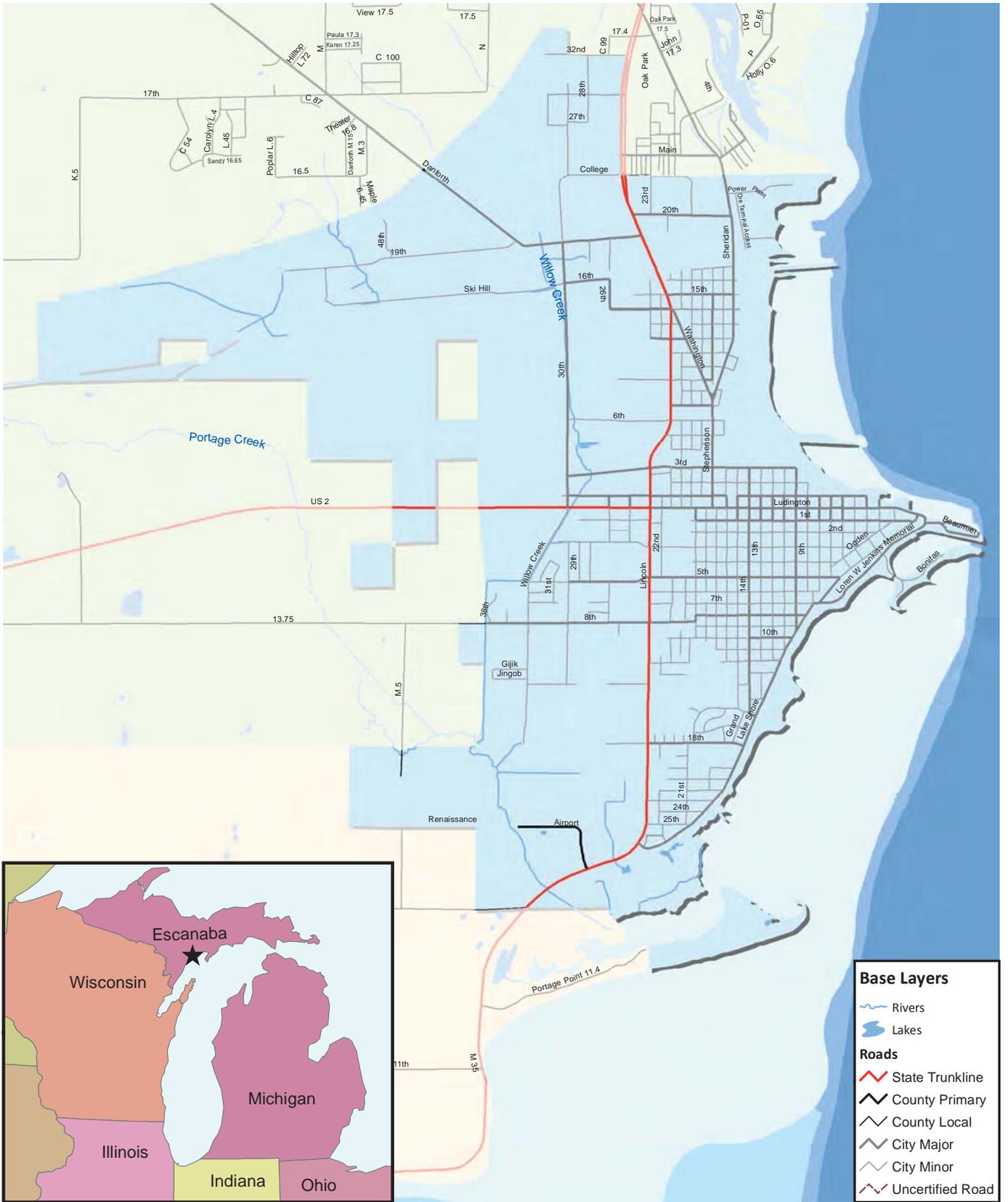
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Images on these pages: Mish Watersports. All others are from the City of Escanaba, or CUPPAD unless noted.

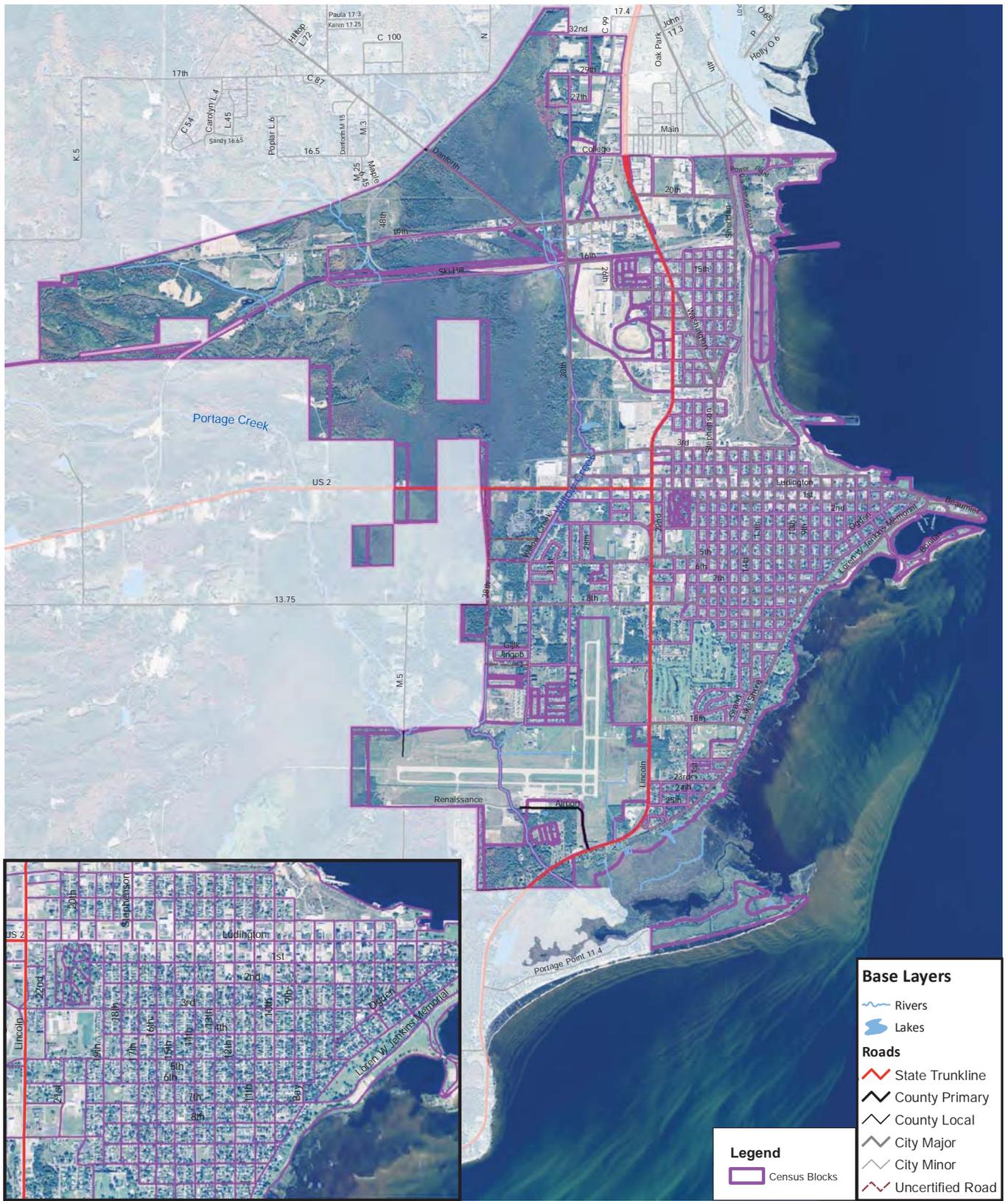
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Map 1: City of Escanaba





Map 2: City of Escanaba, 2010 Census Blocks

Chapter 1: Introduction

Residents of Escanaba enjoy the beautiful setting and rich character that the region and city offer. Acknowledging the value of these attributes has led to a strong commitment by the residents and city officials to concentrate efforts to maintain and enhance Escanaba as a premier waterfront city in Michigan's Upper Peninsula. Residents understand the importance of planning for a livable and enjoyable community and have taken an active role in shaping the way in which the community grows and develops. Residents and city officials have worked jointly to gain an understanding and appreciation for those elements that pose challenges and the community is meeting those challenges head on.

What is a Master Plan?

This City of Escanaba Master Plan addresses the need to plan for future land uses, protection of natural resources and public land, infrastructure, public facilities, and development of the community to sustain its vibrancy. A master plan is a long-term planning document that provides a framework for decision-making and investment. The Michigan Planning Enabling Act of 2008, as amended empowers communities to prepare community plans and regulate land. The law requires communities to prepare or amend a master plan every five years. The plan combines goals from city leaders and community members and provides a realistic schedule for implementation.

This planning document represents the culmination of discussion and study by the City of Escanaba Planning Commission with technical assistance from the CUPPAD Regional Commission. This plan also builds upon information from other previous planning efforts in the City, such as a 2006 Master Plan, a 2010 North Shore Redevelopment Plan, and a Downtown Development Authority Development Plan completed in 2011. As part of this process the City also sought input from the community throughout the development of the plan to ensure that the outcome would reflect the people of Escanaba.

It is not an accident that the result of coherent decisions and actions
- Leo Krier, *The Architecture of Community*

In addition to providing a general framework for development, the goals, policies, and objectives contained in the plan will also serve as a guide to the Planning Commission for updating the Zoning Ordinances in order to reflect the desired future and to review proposed public improvements in accordance with the Michigan Municipal Planning Act.

The initial sections of this Master Plan present an analysis of the current conditions of Escanaba including a brief history, demographic statistics, economic climate, current land use, and other useful data about the community. The remaining chapters of the plan are designed around the key issues highlighted by the residents and city officials.



Image 1-1: Historic downtown Escanaba.

Recommendations for how Escanaba should address these key issues are outlined in detail through a summary of necessary steps and an implementation strategy. The Master Plan provides a strong guideline for achieving the community's goals by balancing current conditions with the desired vision.

Community vision: In 2036 Escanaba will be an attractive community with a vibrant and bustling downtown that has a strong connection to the waterfront. The City will have well-maintained, sustainable infrastructure, and a diverse economic base that provides opportunities for young adults and affords residents with a high standard of living. The City will be friendly to pedestrians and cyclists and home to high-quality schools, a thriving arts scene, tree lined streets, and an accessible shoreline.

Community Overview

The City of Escanaba is located at the heart of Michigan's Upper Peninsula along the north shore of Lake Michigan on the western shore of Little Bay de Noc. Bounded by the bay to the east, Wells Township to the north and west and Ford River Township to the south, Escanaba serves as both the county seat and largest community in Delta County. Delta County has 211 miles of Great Lakes shoreline, more than any other county in the Upper Peninsula.

Escanaba has an area of roughly twelve square miles of land. The City is a small northern town that prides itself in its community values and natural beauty. Escanaba hopes to maintain and improve its historic character and aesthetic quality while expanding education and employment opportunities to further enhance the quality of life for the residents. Bay de Noc Community College provides area residents with opportunities for higher education and advancement.



Image 1-2: Historic illustration of downtown Escanaba.

With a population of 12,562 (2013 ACS Survey), Escanaba is one of the largest cities in Michigan's Upper Peninsula. It is the service and shopping center for the south-central region of the Upper Peninsula. Additionally, Bay College and St. Francis Hospital offer educational and health care services as well as employment opportunities. Verso Corporation is the primary employer in Delta County and has long benefited from the rich forest resources throughout the Upper Peninsula. The deep water working port of Escanaba serves as a major point of shipping for natural resource based industries in the region.

Escanaba is renowned for recreation opportunities found in the waters of Lake Michigan's Little Bay de Noc. Fisherman and recreational boaters are drawn to the rich resources and natural beauty of the bay. This natural resource also affords residents opportunities to kayak, kite surf, and paddleboard. Escanaba's northern climate also provides winter recreation opportunities that draw a multitude of ice and snow sport enthusiasts, in particular ice fishing, ice sailing, and cross-country skiing. These recreational resources are a primary asset for the community and provide economic stability to the area.

The abundant natural resources also support a variety of wildlife, including migratory birds.

The community supports a lively arts and music scene that contributes to the unique character of the City. During the summer months there are weekly music performances at the bandshell. The City also hosts summer festivals that feature live music at the municipal dock. The William Bonifas Arts Center hosts fine arts, music, and theater events. Additionally, the Upper Elementary School has a theater facility, named the Oliver Auditorium, that is used for student and public events. Bay de Noc College has two fine art galleries as well as a theater that is used for film, music, and theatrical performances. Additionally, there is a local artists gallery on Ludington Street and an annual arts festival that showcases area artists.

Escanaba has historically relied heavily on the natural resource industries of wood and mining. These activities have diminished over the past decades, creating demand for new economic activities to drive the local economy, such as advanced manufacturing, tourism, and health care. Escanaba plans to attract new and innovative industries offering good paying jobs and sustainable employment opportunities. Investing in the local quality of life will help the community to retain educated young adults and improve the economic resilience of the city.



Image 1-3: Paddleboarding on the Bay, Mish Watersports.



Image 1-4: Festival in Downtown Escanaba.



Image 1-5: Summer at the municipal beach.



Image 1-6: The end of Ludington Street at the lake.

Chapter 2: History of Escanaba

Escanaba was established as a shipping port, supporting the iron ore, copper, and lumber industries in the early to mid 1800's. Iron ore was discovered in Marquette County in 1844 and mining began. Delta County was formally established in 1861. During the Civil War, iron ore from the Marquette Iron Range was shipped from Escanaba to be made into steel cannons and supplies to support the northern armies. It would continue to grow as a primary shipping port in northern Lake Michigan. After being incorporated as a city in 1883, Escanaba became the regional city of activity and economic hub of the in the south central portion of the Upper Peninsula.

Before European settlement of the Upper Peninsula there is evidence that the region was inhabited by Native Americans for at least 5,000 years. Among the Native peoples of the area were the Nokes, or Noquets, for whom the Bays de Noc are named. The explorer Henry Schoolcraft in his survey of the region in 1832 noted that there were several seasonal villages along the northern shore of Green Bay, with a total population of 210. The first European settlement of the area took place around 1830 and first called the Escanaba area 'Sand Point' .

Before Escanaba established itself as the primary port city on the northern shore of Lake Michigan, activity in the region was growing. The town of Flat Rock was positioned along the Escanaba River and was the center for trade and commerce during the 1840's and 1850's before Escanaba was built. Flat Rock functioned as a staging area for travelers and traders heading north to Marquette for the trade of goods with Native American groups and settlers. In 1844, Jon and Joseph Smith built a steam-powered mill near the mouth of the Escanaba River. They later sold the mill to the N. Ludington Co. in 1851. The N. Ludington Co. owned the area known as Sand Point that would later become the site of the town of Escanaba. Native Americans frequented Flat Rock to trade furs and pelts for manufactured goods and food. The settlement of Flat Rock supported the development of Escanaba and served as the initial destination of the northern shore of the Lake.



Image 2-1: Johnson Ice Co., Escanaba, 1907.



Image 2-2: Hansen & Jensen, fish dealers, Escanaba circa 1900.

Eli P. Royce, a land surveyor, was hired by the N. Ludington Co. to layout the city plan. He designed the first plat of Escanaba in 1862. Royce would go on to become one of Escanaba's founding citizens, involved in the first position in city office. Royce was asked to lay out the city with liberal provisions for the citizens and railroad, which is still evident today in the wide streets and the traditional neighborhood layouts. With the assistance of Royce, Escanaba quickly became one of the great northern boom towns benefiting from the rich copper and timber resources found to the north and west. Royce and the N. Ludington Co. were the primary founders during this boom and played a significant role in shaping the city's future.

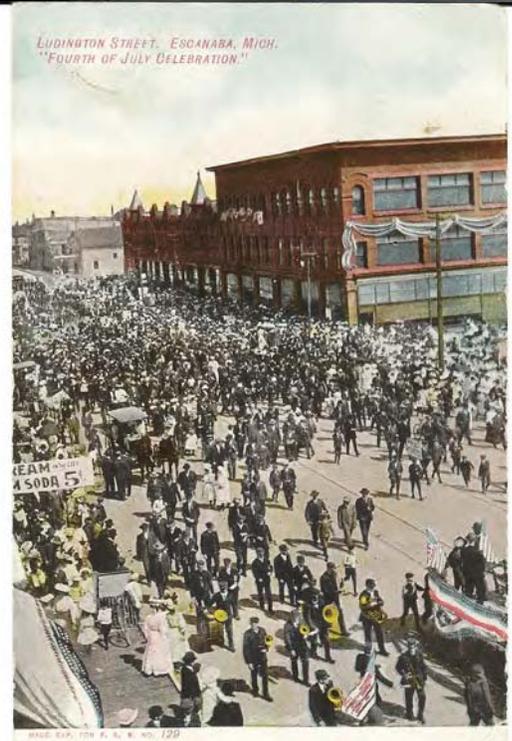


Image 2-3: Masonic Building and Bank, Escanaba circa 1900.

Population of Escanaba since 1880														
Year	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010
Pop.	3,026	6,808	9,549	13,194	13,103	14,524	14,830	15,170	15,391	15,368	14,355	13,659	13,140	12,616

Source: U.S. Census, Years Cited

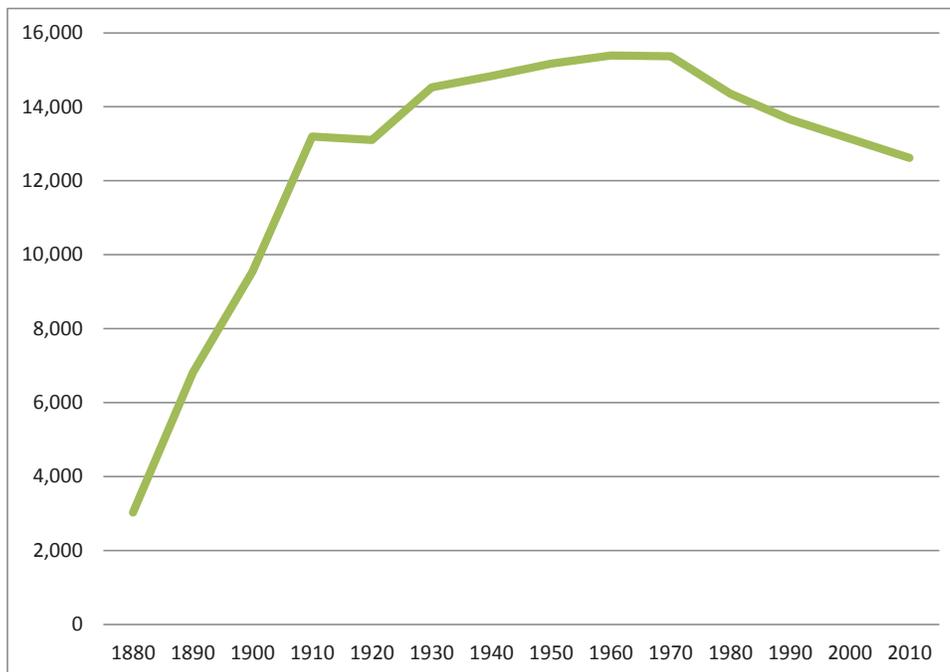


Figure 2-1: Population of Escanaba since 1880. Data source: U.S. Bureau of the Census, Years Cited.

With increasing demand for iron ore during the Civil War, new transportation networks were needed to provide a connection from the iron mines north of Escanaba to the steel mills in the southeast. William B. Ogden saw the opportunity to extend existing rail lines and open up the iron rich reserves of the Upper Peninsula to the nation. In 1859, Ogden and investors organized the Chicago & North Western Railway Co., to connect Escanaba to the Jackson Mine of Negaunee by the end of 1863. Once in Escanaba, the iron ore was shipped by steam ship to Green Bay, Wisconsin, where the Northwestern line was positioned to transport the ore to final destinations. The development of the railroad had a significant impact on Escanaba by transforming the small lakeshore town into a booming hub of economic activity. The population growth of the City is described in Table 1-1.

As Escanaba and the shipping industry grew, immigrants flocked to the prosperous community. This influx of people brought the emergence of businesses and industries that supported the mining and shipping operations, rapidly expanding the economic activities throughout the city. As more people came, more housing was constructed, and Escanaba was established as a thriving and vibrant Northern Great Lakes City.

In 2013 the City celebrated its 150th anniversary with a nine day summer festival that featured outdoor concerts, parades, historical tours, dances, fireworks and many other events. In addition, community leaders sought to encourage city-wide beautification and create an asset for future residents by planting 150 large trees throughout parks and other parts of the community.



Image 2-4: Volunteers planting trees in honor of the City's 150th anniversary at the Upper Elementary in 2012, Esky150.org.

Chapter 3: Demographics

Introduction

Population demographics – age, income, gender, education, and occupation, combined with other factors – shape the development of a community as well as its growth. This chapter examines the demographic trends in the city that will affect the future of the community. Analysis of trends and patterns is a useful way to determine the needs and demands of the future population of Escanaba. Included in this section is a thorough review of the current population, historic population trends, population projections, and age distribution. Concluding the chapter is a description and explanation of the foreseen impacts of the analysis.

3.1 Population Trends

Escanaba is experiencing a demographic change that is common in urban areas in the rural counties of Michigan and throughout the United States. The population of the City has slowly decreased over the last 50 years. Although the total population of the State has increased, the populations of many rural cities have decreased. The decline in population is in-part a result of the shrinking of the mining and timber industries. Although the population of Escanaba has decreased since 1960, the populations of many of the surrounding townships have grown. Figure 3-1 illustrates these growth trends. The past growth in population for these townships is attributed to the desire for lower taxes and user fees, lower development costs, and a desire for rural lifestyles.

Table 3-1: Population Trends						
	Population		Selected Years			
	1960	2000	1960	1970	1980	1990
Escanaba	15,391	15,368	14,355	13,659	13,148	12,616
Change		-0.2	-6.6	-4.9	-3.7	-4.0
Woodstock	5,267	5,237	4,533	4,565	5,042	4,973
Change		-0.6	-13.4	0.7	10.5	-1.4
Woodward	1,308	1,762	2,136	2,002	2,241	2,054
Change		34.7	21.2	-6.3%	11.9	-8.3
Wesley	3,295	4,003	5,181	5,159	5,044	4,885
Change		21.5	29.4	-0.4	-2.2	-3.2
Escanaba	1,485	1,948	3,229	3,340	3,587	3,482
Change		31.2%	65.8	3.4	7.4	-2.9
Wesleyton	589	737	1,113	1,142	1,090	1,050
Change		25.1	51.0	2.6	-4.6	-3.7
Warren	1,361	1,299	1,571	1,548	1,650	1,578
Change		-4.6	20.9	-1.5	6.6	-4.4
De Taft	34,298	35,924	38,947	37,780	38,520	37,069
Change		4.7	8.4	-3.0	-2.0	-3.8
State of Michigan	7,824,965	8,875,083	9,262,078	9,295,297	9,938,444	9,883,640
Change		13.4	4.4	0.4	6.9	0.6

Source: U.S. Census, Years Cited

POPULATION CHANGE 1960-2010

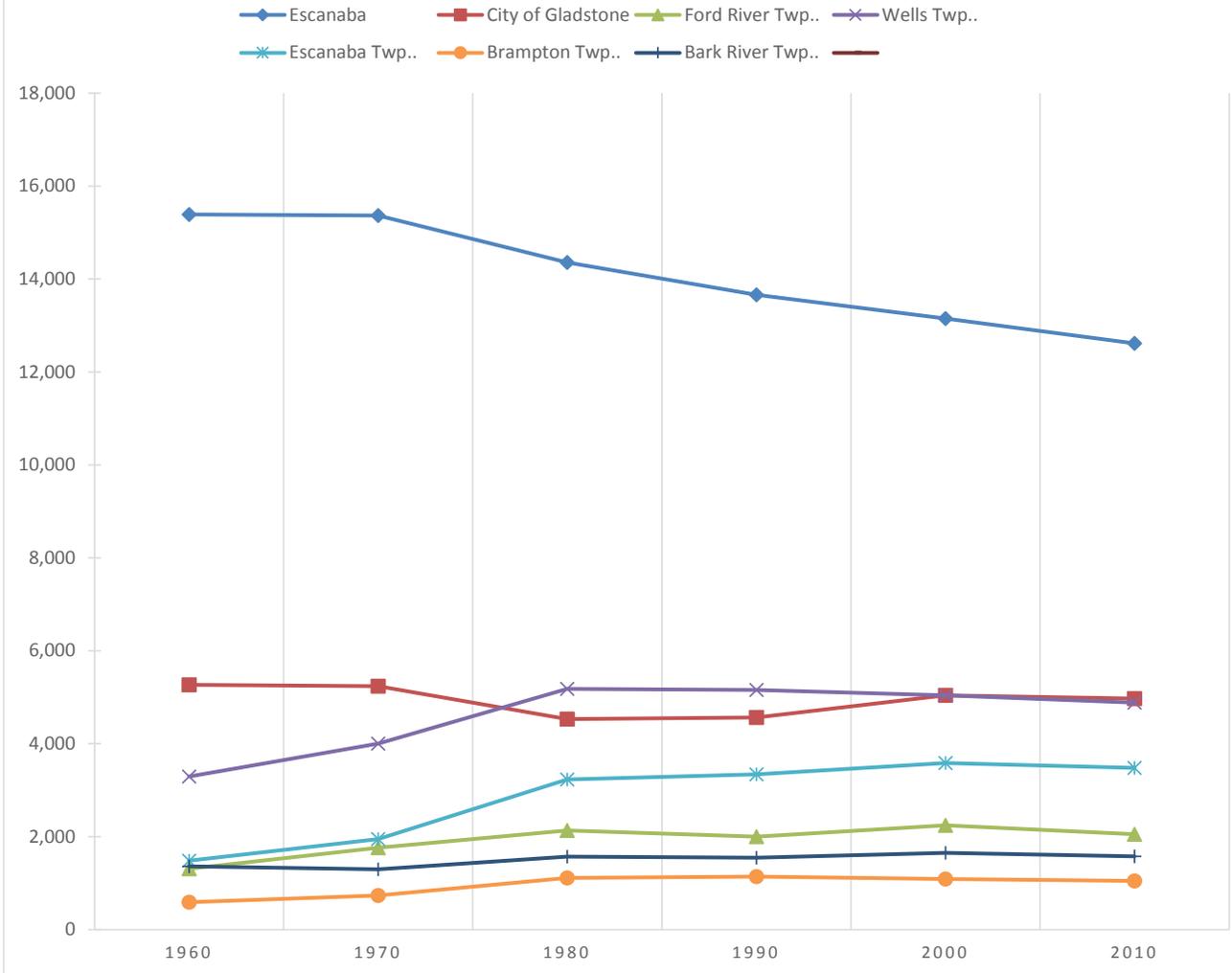


Figure 3-1: Population changes in Delta County since 1960. Source: US Census, years cited.

Table 3-2 shows the components of population change in Delta County. The most concerning trend affecting the area is the loss of population due to migration. Many people are leaving in their mid-20s to pursue economic opportunities in other parts of the country. People from Escanaba who leave are not replaced by migrants from other parts of the country or by immigrants, resulting in a net loss of population.

Population Estimates

Between decennial censuses the U.S. Bureau of the Census prepares estimates of relevant data through the American Community Survey (ACS). The most recent data available is a 2010-2014 five year estimation, summarized in Table 3-3. The data collected since the 2010 Census indicates that the population has continued to slowly decrease as people migrate out of the region.

Components of Population Change Delta County			
Births	3,918	3,818	1,537
Deaths	3,562	3,796	1,847
International Migration	32	54	13
Domestic Migration	810	-1,448	-171
Net Migration	842	-1,394	-158
Total Change	1,068	-1,602	-510
U.S. Census Bureau, Population Division			

Table 3-5: Population Statistics					
	2010 Census	2010 State	2010 US	2015 Projection	2060 Projection
Escanaba	12,616	12,678	12,608	12,569	12,529
Change		-0.5	-0.6	-0.3	-0.3
City of Gladstone	4,973	4,990	4,960	4,952	4,920
Change		-0.3	-0.6	-0.2	-0.6
Port Huron	2,054	2,068	2,076	2,122	2,118
Change		0.7	0.4	2.2	-0.1
St. Ignace	4,885	4,914	4,901	4,873	4,865
Change		0.6	-0.6	-0.6	-0.1
Escanaba	3,482	3,482	3,474	3,469	3,460
Change		0	-0.2	-0.1	-0.2
Port Huron	1,050	1,002	948	788	894
Change		-4.6	-5.4	-16.9	11.9
Port Huron	1,578	1,689	1,583	1,673	1,608
Change		7.0	-6.3	5.7	-4.0
Delta County	37,069	37,248	37,075	36,967	36,841
Change		0.5	-0.5	-0.3	-0.3
State of Michigan	9,883,640	9,876,187	9,883,360	9,895,622	9,889,024
Change		-0.1	0.1	0.1	-0.01

Source, ACS 5-Year Population Estimates, Years Cited

Projected Population

The population of Delta County is anticipated to decline 7.4 percent between 2010 and 2060. During this same time period the population of both the State of Michigan and United States are anticipated to increase. The decreasing population in Delta County will have negative effects on area communities, including an increased cost per capita for infrastructure and reduced demand for services.

Table 3-6: Population Projections for Delta County					
Year	Population	Change	Rate	Population	Change
Delta County	37,069	36,852	-0.60	34,314	-7.40
Michigan	9,883,640	10,833,205	10.70	11,250,338	3.90
US	308,745,538	363,686,916	17.9	417,691,887	14.8

U.S. Bureau of the Census, ProximityOne.com, 2016

Population Density

Relative to most other communities in the Upper Peninsula, Escanaba is a dense urban community (Table 3-5). However, the nearby community of Gladstone is slightly more dense than Escanaba. The density of the population is not uniform throughout the city, most of the population is concentrated east of Lincoln Road. The density of this area is close to 980 persons per square mile. However, other parts of the city contain large undeveloped tracts of land, such as the Portage Marsh and cross-country ski trail area, where there are no structures. There are also areas of the city where residential homes are zoned to be less dense than the older neighborhoods closer to downtown. Map 3 illustrates the density of population across the City by census tract. Census tracts are small statistical subdivisions determined by the U.S. Bureau of the Census and designed to encompass relatively homogeneous districts.

a e : o u at on Dens t Se ected reas			
	Land rea	o u at on	o S M
scana a	12.9	12,616	979.5
adstone	5.0	4,973	994.6
scana a	59.6	3,482	58.4
e s	39.5	4,885	123.7
ord er	64.8	2,054	31.7
ar er	45.6	1,578	34.6
ra ton	23.7	1,050	44.3
De ta ount	820	37,069	45.2
M c gan	56,809.20	9,883,640	173.9

3.2 Age and Gender

Age distribution, in conjunction with population dynamics, helps identify which age groups are staying in Escanaba and what groups are declining in numbers. Table 3-5 describes the population of the City by age cohort. The people in the 25-44 age cohorts have declined as a percentage of the overall population. This trend affects the ability of employers to attract and retain a young, educated workforce. The geographic concentration of age groups also helps to identify those areas that may require specific amenities and facilities. Determining which areas of the city have higher populations of elderly or young people helps city leaders to locate specific facilities, such as parks, recreation centers, or schools. In addition, walkability, safety, and recreation opportunities are important characteristics that need to be recognized for the vitality of any area. Furthermore, by assessing the age distribution of Escanaba, health care demands and school enrollment can be predicted. Research done by the University of Michigan for the State of Michigan (shown in Figure 3-2) indicates that by 2040 those aged 65 and over will comprise nearly a quarter of the population. Additionally, communities in the U.P. are aging faster than those in the rest of the state. Maps 4, 5, and 6 describe where people of different ages live within the City.

Population Distribution by Age Categories
Michigan, 2010 and 2040

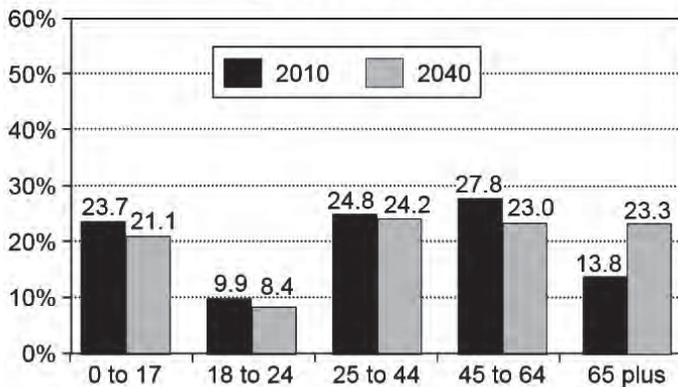


Figure 3-3: Projected population changes in Michigan¹.

a e : ge D str ut on t of scana a								
ge rou	u er		u er		ange	u er		ange
ota	13,659	100	13,148	100	-3.7	12,616	100	-4.0
nder	956	7	762	5.8	-20.3	821	6.5	7.7
	2,950	21.6	2,612	25.7	-11.5	2,282	18.1	-12.6
	704	5.2	873	6.6	-24	852	6.8	-2.4
	3,849	28.2	3,296	25.1	-14.4	2,858	22.7	-13.3
	1,231	9	1,648	12.5	33.9	1,765	14	7.1
	635	4.7	582	4.4	-8.3	874	6.9	50.2
	713	5.2	551	4.2	-22.7	690	5.5	25.2
	1,360	10	1,233	9.4	-9.3	1,012	8.0	-18
	905	6.6	1,048	8	15.8	959	7.6	-8.5
and	356	2.6	535	4.1	50.3	503	4.0	-6.0

Source: U.S. Census, Years Cited

1. Grimes, D. R., & Fulton, G. A. (2012). Retrenchment and Renewal: The Economic and Demographic Outlook for Southeast Michigan Through 2040. Institute for Research on Labor, Employment, and the Economy, University of Michigan.

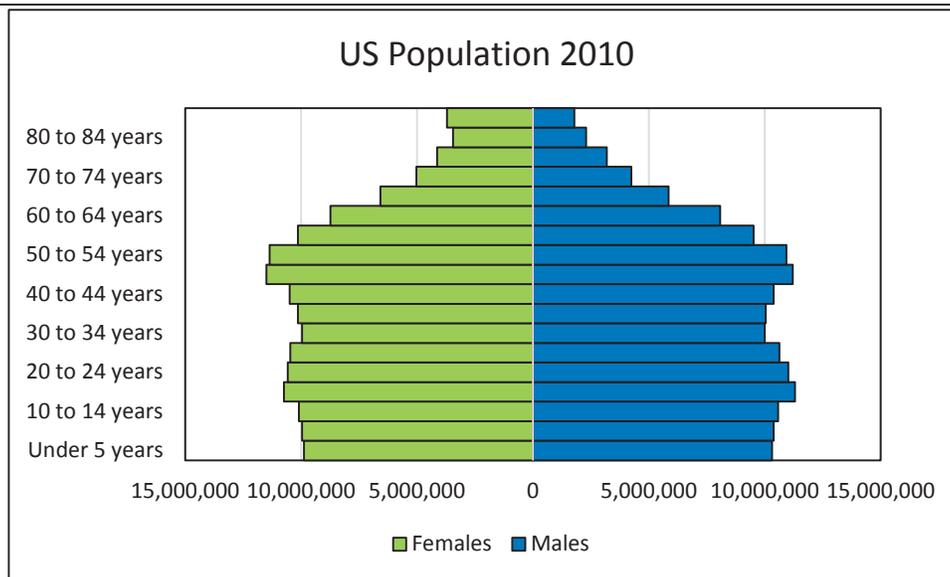
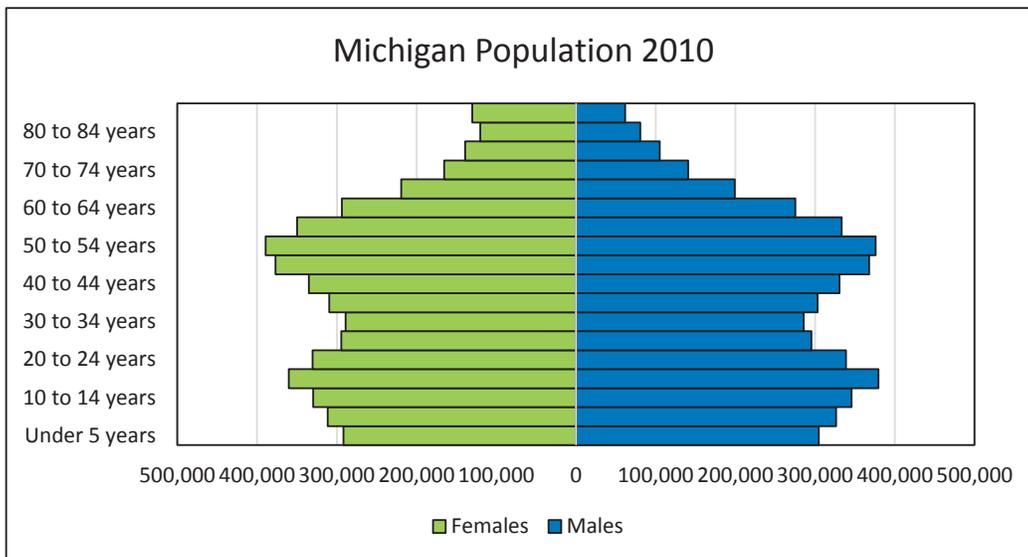
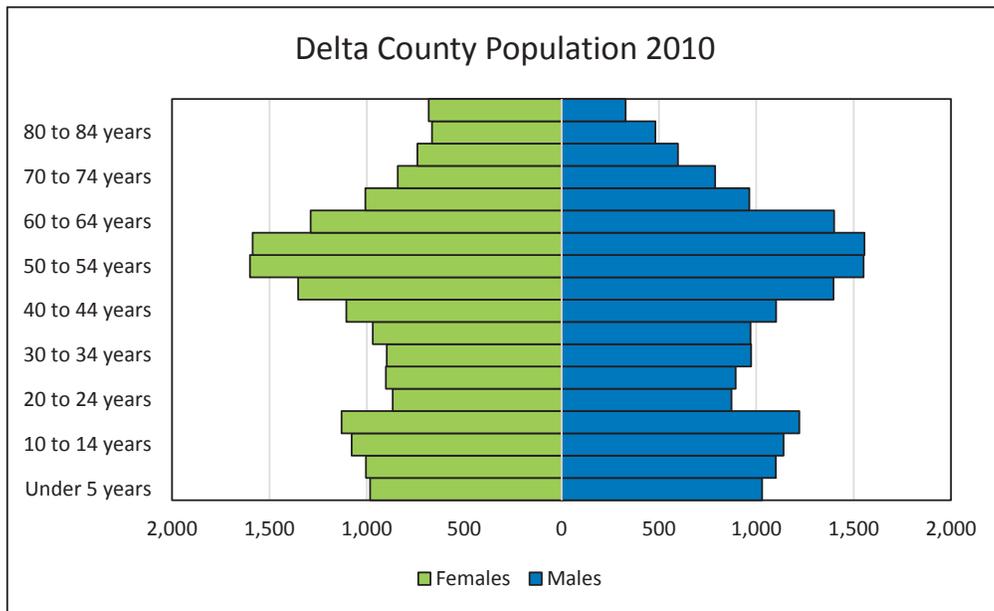
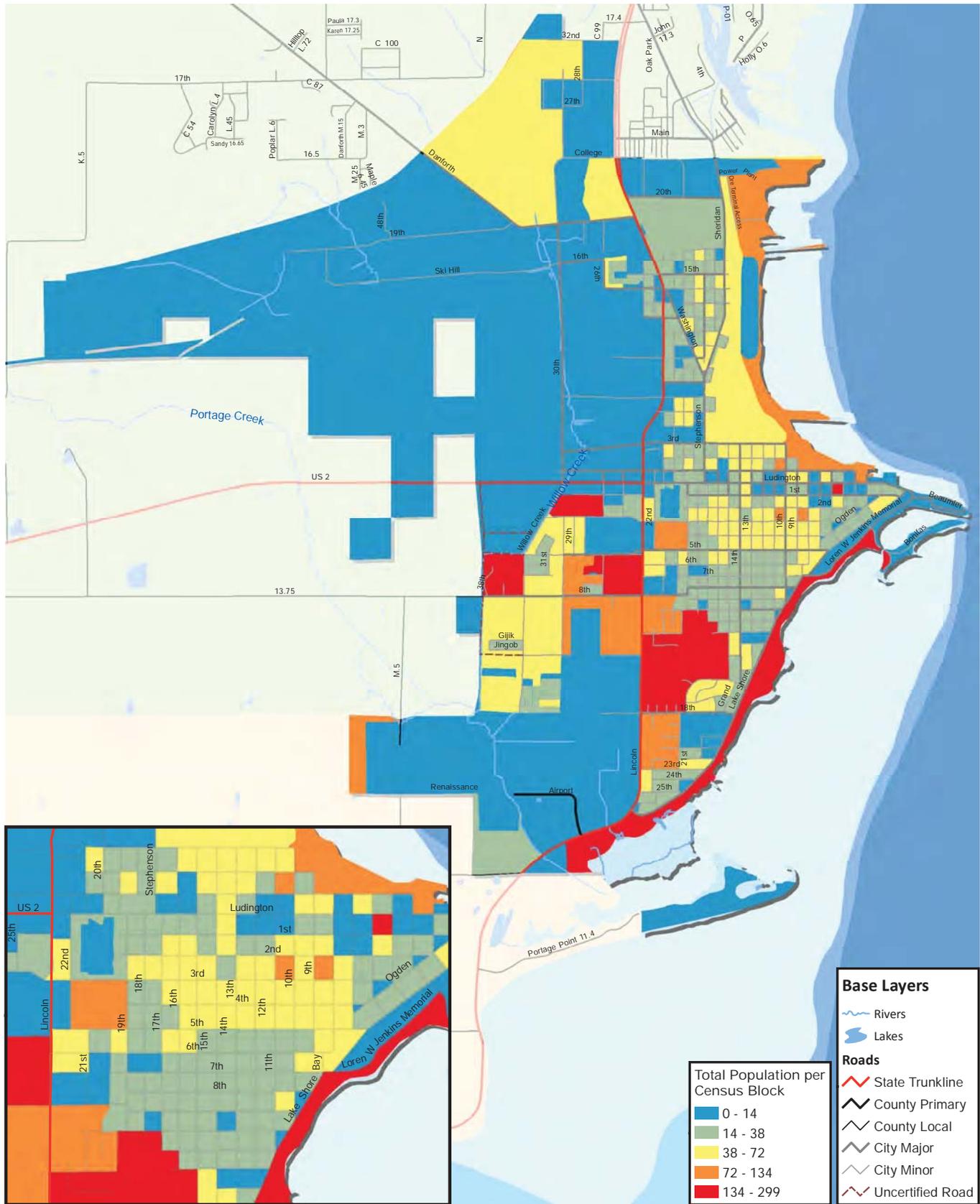
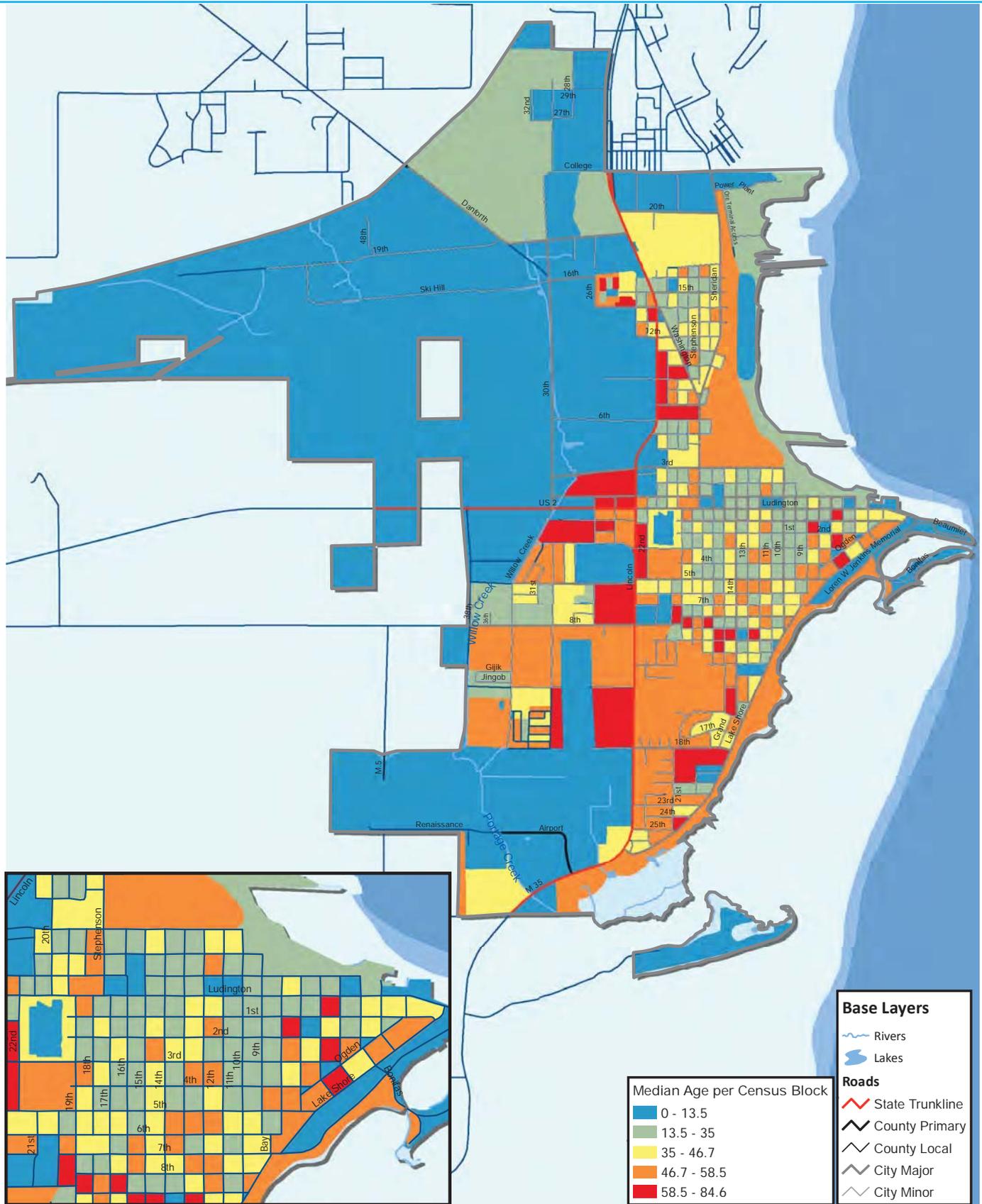


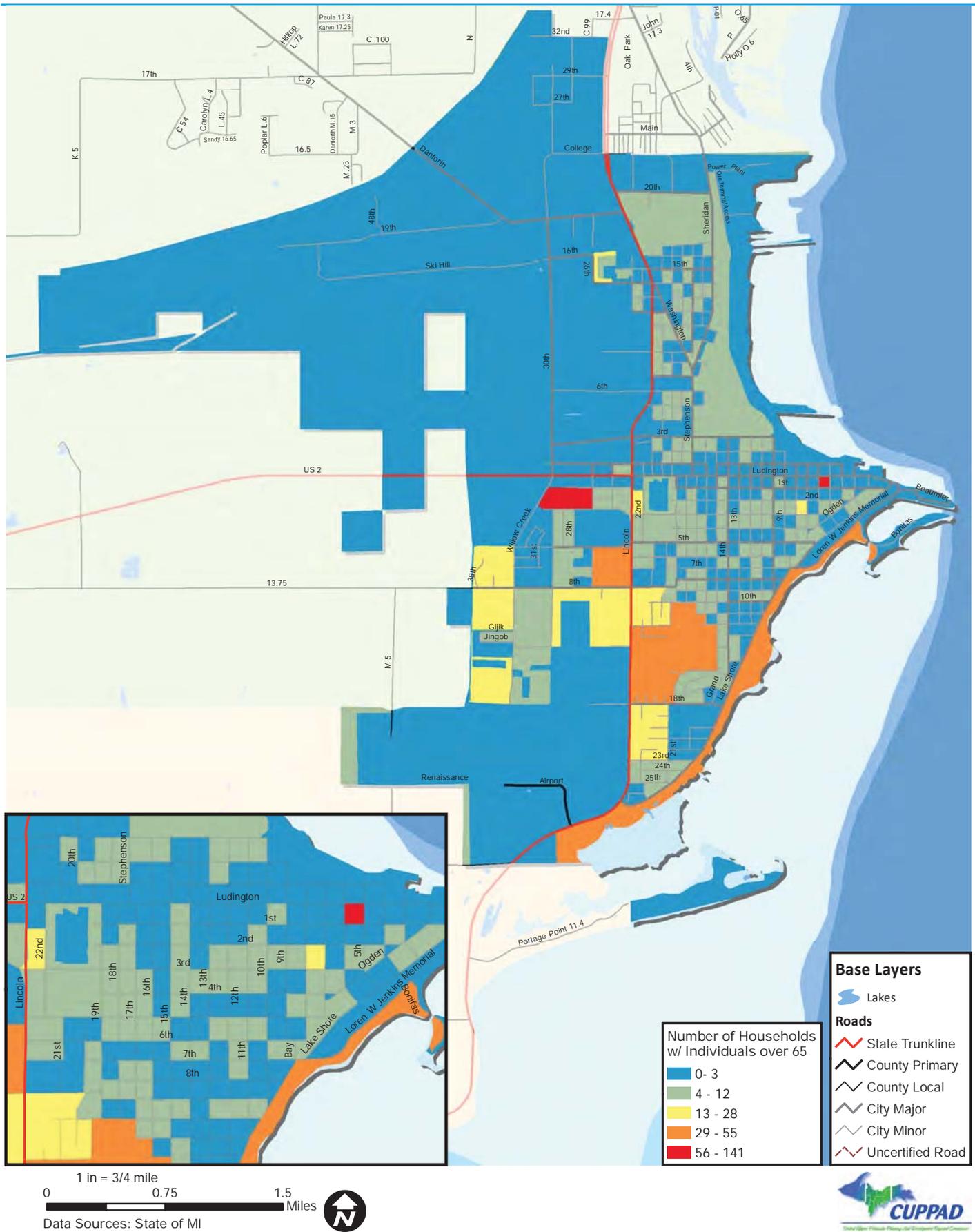
Figure 3-2: Comparing gender and age cohorts across Delta County, Michigan, and the U.S. reveals differences between these areas. It is clear that the out-migration from the Escanaba area has a significant impact on the county's demographic profile. The loss of people of prime working age limits economic development.



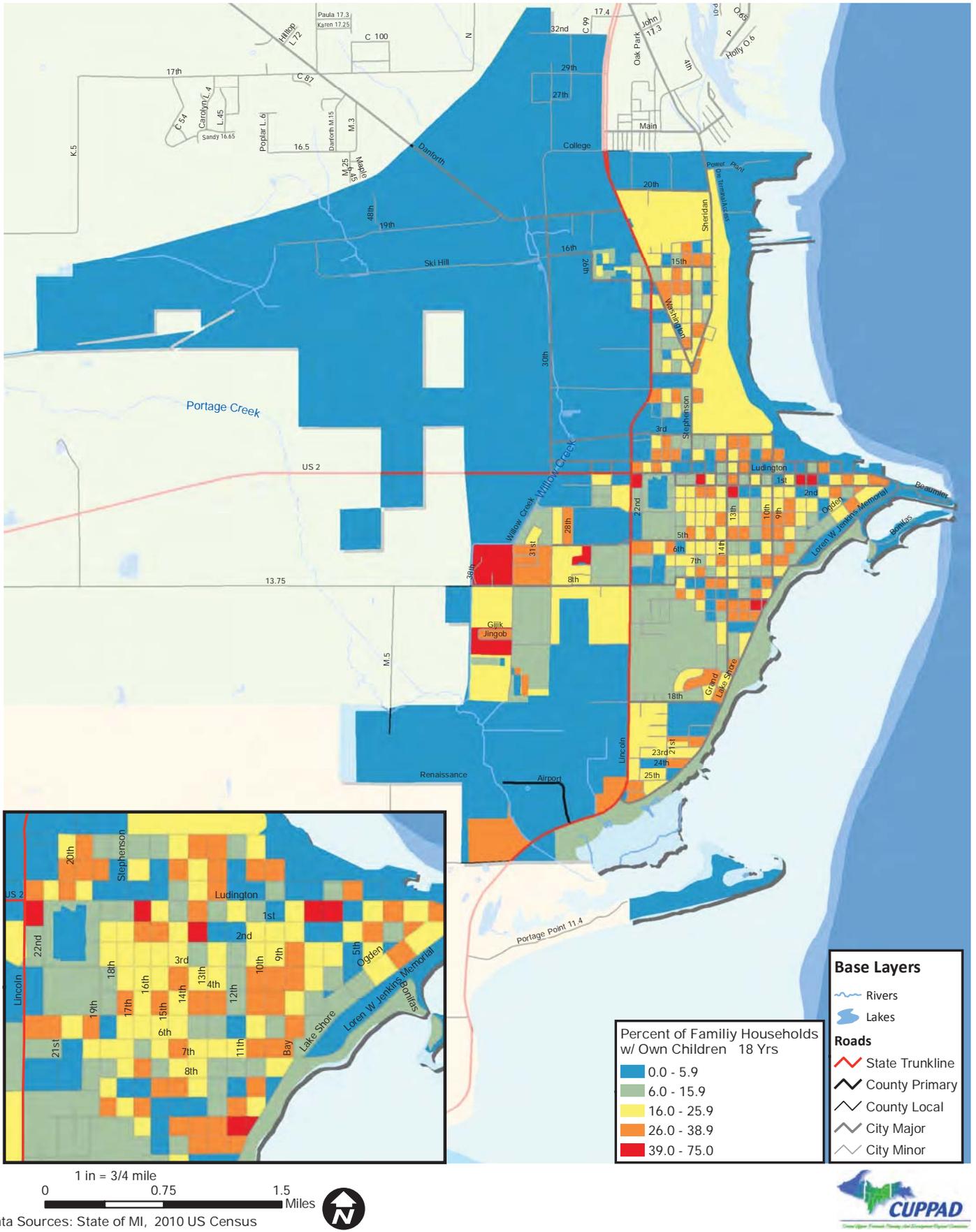
Map 3: City of Escanaba, Population, 2010



Map 4: City of Escanaba Median Age, 2010



Map 5: City of Escanaba, Households with Individuals over Age 65, 2010



Map 6: City of Escanaba, Families with Own Children, 2010

3.3 Racial Composition

The racial make-up of the City of Escanaba, like the rest of northern Michigan, is primarily white. The largest minority racial group in the area is American Indian, Eskimo, & Aleuts. The number of ethnic Latino people living in the community has increased from 87 in 2000 to 154 in 2010. People who identify themselves as Latino can be of any race. A breakdown of the number of residents by racial groups is provided in Table 3-6.

Table 3-6: Racial Composition of Escanaba		
Race	City of Escanaba	Delta County
White	12,570	11,696
Black	14	49
American Indian or Alaska Native	343	321
Asian	43	73
Native Hawaiian or Pacific Islander	3	0
Other	24	5
People of Two or More Races	143	302
Hispanic or Latino	87	154
Not Hispanic or Latino	13,953	12,462

Source: U.S. Census, Years Cited

3.4 Education Attainment

The 2013 ACS survey indicates that 10.7 percent of Escanaba adults 25 and over do not have a high school diploma or equivalent. This percent is higher than that of Delta County as a whole, but lower than the average for the State of Michigan. Fewer Escanaba residents hold bachelor's degrees (12.4%) than do Delta County residents on average (12.9%) or the State of Michigan (15.9%). Only 6.0 percent of residents hold graduate or professional degrees, which is slightly higher than that of the Delta County average (5.8%) but less than the State of Michigan average (10%).

Two industries that employ large numbers of people in the county are healthcare and education, both of these fields require advanced training or degrees. Even fields which may have not required advanced training in the past now seek employees with post-high school education. Many employers seek to locate in areas that have a highly-trained workforce. Bay College maintains partnerships with area employers to ensure that curricula meets workforce development needs.

Table 3-7: Education Attainment for Persons 25 and Over			
Education Level	Escanaba	Delta County	Michigan
Less than High School	3.4	3.0	3.4
High School Diploma	7.3	6.4	7.7
Some College	38.6	38.4	30.4
Associate Degree	21.4	22.3	24
Bachelor's Degree	10.9	11.2	8.6
Master's Degree	12.4	12.9	15.9
Graduate or Professional Degree	6.0	5.8	10
Some College or Graduate	89.3	90.6	88.9
Associate Degree or Graduate	18.4	18.7	25.9

Source: 2009-2013 ACS 5 Year Estimate

3.5 Household Characteristics

An evaluation of the changes in household characteristics in a community can often provide additional insights about population trends. Household relationships often reflect changing social values, economic conditions, and demographic changes and may signal the need for policy changes to respond to community needs.

The U.S. Census defines a household as all persons who occupy a housing unit. For example, a household could consist of a single family, one person living alone, two or more families living together, or any group of related or unrelated people sharing living quarters. A family consists of a householder and one or more persons living in the same household who are related by birth, marriage, or adoption. A non family household could be one person living alone, or any combination of people not related by blood, marriage, or adoption. The average household size and average family size decreased slightly 2000 Census, which is aligned with state and national trends. Fewer people are having large families and more people are choosing to live alone, resulting in smaller household and family sizes. The number of married couple families decreased by 5.4 percent and the number of married couple families with children under 18 decreased by 4.4 percent. The number of non-family households increased by 3 percent. This may be attributed to the overall decrease in people between ages 25-44. The number of householders living alone increased by 1.2 percent, which is aligned with the decrease in average household size.

Table 3.5: Household Characteristics					
Household Characteristics	Number	%	Number	%	
Total Households	5,800	100	5,622	100	
Family Households	3,297	56.8	3,090	55	
w/own children under 18	1,544	26.6	1,375	24.5	
Married couple	2,445	42.2	2,071	36.8	
w/children under 18	979	16.9	705	12.5	
Non-family households	2,603	42	2,532	45	
Householder living alone	2,148	37	2,145	38.2	
Aged 65+	1,049	18.1	993	17.7	
Households under 18	1,629	28.1	1,470	26.1	
Households over 18	1,918	33.1	1,742	31	
Average Household Size	2.19		2.14		
Average Family Size	2.88		2.82		

Source: U.S. Census Bureau, Census 2000 Summary File 1

3.6 Issues and Opportunities

Issues:

The 2010 Census shows the population of Escanaba has declined by 22 percent since 1960, recent data indicates this decline has continued. Since the 2000 Census the population has decreased by -9.0 percent. The loss of population increases the per capita cost of infrastructure and public services and has a negative impact on economic development.

Census data also indicates Escanaba's population is aging, which is aligned with regional, state, and national trends. An aging population will affect the demand for services, such as health care and public transportation. In addition, people in the community may find their existing home or neighborhood no longer meets their needs and may look to move to smaller homes or senior apartments.

The census data shows many people are leaving the region in their early twenties. This loss of people in their prime working age limits economic development, as companies want to be located where there is an ample workforce. Furthermore, the population of Escanaba has a lower percentage of people with bachelor's degrees than Michigan as a whole, as young adults are leaving to pursue opportunities elsewhere. A community with a highly educated population can attract knowledge-based industries.

Opportunities:

The population density is high compared to most of the surrounding communities. Density enables more efficient transit services, walkability, reduced fuel consumption, and greater economic growth. Future development should seek to improve growth patterns to sustain the dense, historic core of the community that provides the City with its unique sense of place.

The changing household characteristics indicate more residents of the city are living alone and there are more homes with people over 65 than there are with children under 18. Seniors, as well as young professionals, want denser low-maintenance housing, such as condos, in walkable neighborhoods. There is a market for this type of housing in Escanaba, and developing this type of housing can help to attract and retain residents.



Image 3-1: Historic homes in Escanaba.

Chapter 4: Local Economy

Introduction

Escanaba was established through the utilization and harvest of the natural resources that were bountiful throughout the region. Lumber and iron ore mining operations provided jobs and a sustainable source of revenue for Escanaba and its residents. Historically, Escanaba has maintained these primary economic activities in conjunction with a multi-modal transportation hub to grow and build a strong vibrant community. Global competition and a decrease in the demand for iron ore has reduced the number of people employed in natural resource based industries and increased reliance other industries and employment opportunities. This transition from a primarily industrial economy to one centered more in services and manufacturing will continue as more mining and logging businesses reduce capacity or close. The community will need to continue to pursue diverse industries and investing in local and regional economies in order to remain resilient to economic changes.

Information is provided for the City of Escanaba whenever it is available, but many statistics are only collected for Delta County. Where local information is available, the data for the City may not accurately reflect the local economy. Residents of the Escanaba area move freely and may purchase goods and services in one community while living and working in others.

4.1 Labor Force & Employment

The information summarized in Table 4-1 describes unemployment trends in Delta County, the central U.P. region, the entire U.P., the State of Michigan, and the United States from 2004-2014. This data indicates that Delta County has generally had a higher unemployment rate than that of the central U.P. region, the State of Michigan and the U.S. unemployment was at its peak in 2009 and 2010, which was also the peak period of unemployment measured at national and state levels. The overall number of people in the labor force, employed or unemployed, has decreased since 2004. This is due in-part to people who are unemployed dropping out of the labor force and in-part to people moving out of the state as a result of the recession that began in 2008.

Delta County Labor Force and Unemployment Rate								
Year	Count	Unemployed	Total	Delta County	Central U.P.	MI	MI	U.S.
	18,700	1,599	20,299	7.9	7.3	7.4	7.1	5.5
	18,819	1,481	20,300	7.3	6.8	7	6.8	5.1
	19,014	1,527	1,546	7.4	7.1	7.1	6.9	4.6
	18,599	1,546	20,145	7.7	7.1	7.4	7.1	4.6
	18,067	1,625	19,692	8.3	7.8	8.2	8.3	5.8
	17,108	2,390	19,498	12.3	11.8	12	13.5	9.3
	15,898	2,279	18,177	12.5	11.3	11.8	12.7	9.6
	15,892	1,926	17,818	10.8	9.8	10.2	10.4	8.9
	15,789	1,731	17,520	9.9	8.9	9.2	9.1	8.1
	15,763	1,799	17,562	10.2	9.1	9.7	8.8	7.4
	16,078	1,452	17,530	8.3	7.6	8	7.2	6.2

Source: Michigan Dept of Mgmt and Budget, Labor Market Information

4.2 Employment by Sector

The employment patterns in Delta County have changed over the last decade. Overall, the number of jobs in the county has decreased by 15 percent. The biggest changes are the decreases in the relative importance of the finance and manufacturing industries in the county. However, the decrease in manufacturing has also been a state-wide and national trend. The percent of people working in the construction, wholesale trade, information, public administration, arts, education, retail trade, and transportation sectors have also decreased since 1970. The professional and agriculture sectors have grown in importance to the local economy.

Traded and Local Industry Clusters

In order to understand the economic importance of the industries in Delta County it is useful to compare the concentration of local industries in the county to other counties and state or national averages. Concentrations of inter-related businesses in a particular industry creates a competitive advantage for a region. This concentration of related companies in a particular area is an industry cluster, which can be defined as either traded or local. The industries are categorized by the North American Industry Classification System (NAICS). Traded industry clusters are those that are concentrated in a few geographic areas and produce goods or services that are sold widely across the nation or internationally. In Delta County, the largest industry clusters by the number of employees are paper and packaging, production technology, downstream metals, wood products, forestry, water transport, furniture, printing, medical devices, recreational goods, and trailers and appliances. Local clusters are those that are present in most locations and sell to local buyers. The largest local industry clusters include health services, hospitality, retail, commercial services, real estate and development, and local motor vehicle products and services.

Economic projections for the state as a whole predict declines in the retail-trade, transportation, and utility sectors and growth in leisure and hospitality services, government, and financial services. Figure 4-2 describes state-wide projections for employment.

Delta County	State	Delta County	State	Change
Sector	Number	Percentage	Number	Percentage
Education	5,782	100	4,905	-15.2
Agriculture, forestry, fishing, hunting, mining	60	1	74	23.3
Construction	263	4.5	224	-14.8
Manufacturing	845	14.6	613	-27.5
Wholesale trade	146	2.5	97	-33.6
Retail trade	810	14	680	-16.1
Transportation and utilities	292	5.1	215	-26.4
Information	142	2.5	94	-33.8
Finance, insurance, real estate, rental, leasing	280	4.8	119	-57.5
Professional, scientific, management, administrative, and support services	311	5.4	371	19.3
Accommodation and food services	1,227	21.2	1,148	-6.4
Arts, entertainment, and recreation	821	14.2	763	-7.1
Health services	339	5.9	350	3.2
Utilities	246	4.3	157	-36.2

Source: U.S. Census 2000, ACS Survey 2013

Delta County					
Occupation					
	2000	2000	2013	2013	Change
Manufacturing	5,782	100	4,905	100	-15.2
Management, business, science, arts	1,482	25.6	1,226	25	-17.3
Service occupations	1,301	22.5	1,239	25.3	-4.8
Sales and office occupations	1,396	24.1	1,186	24.2	-15
Construction, maintenance, transportation	481	8.3	383	7.8	-20.4
Production, transportation, material moving	1,122	7.7	871	17.8	-22.4

Source: U.S. Census 2000, ACS Survey 2013

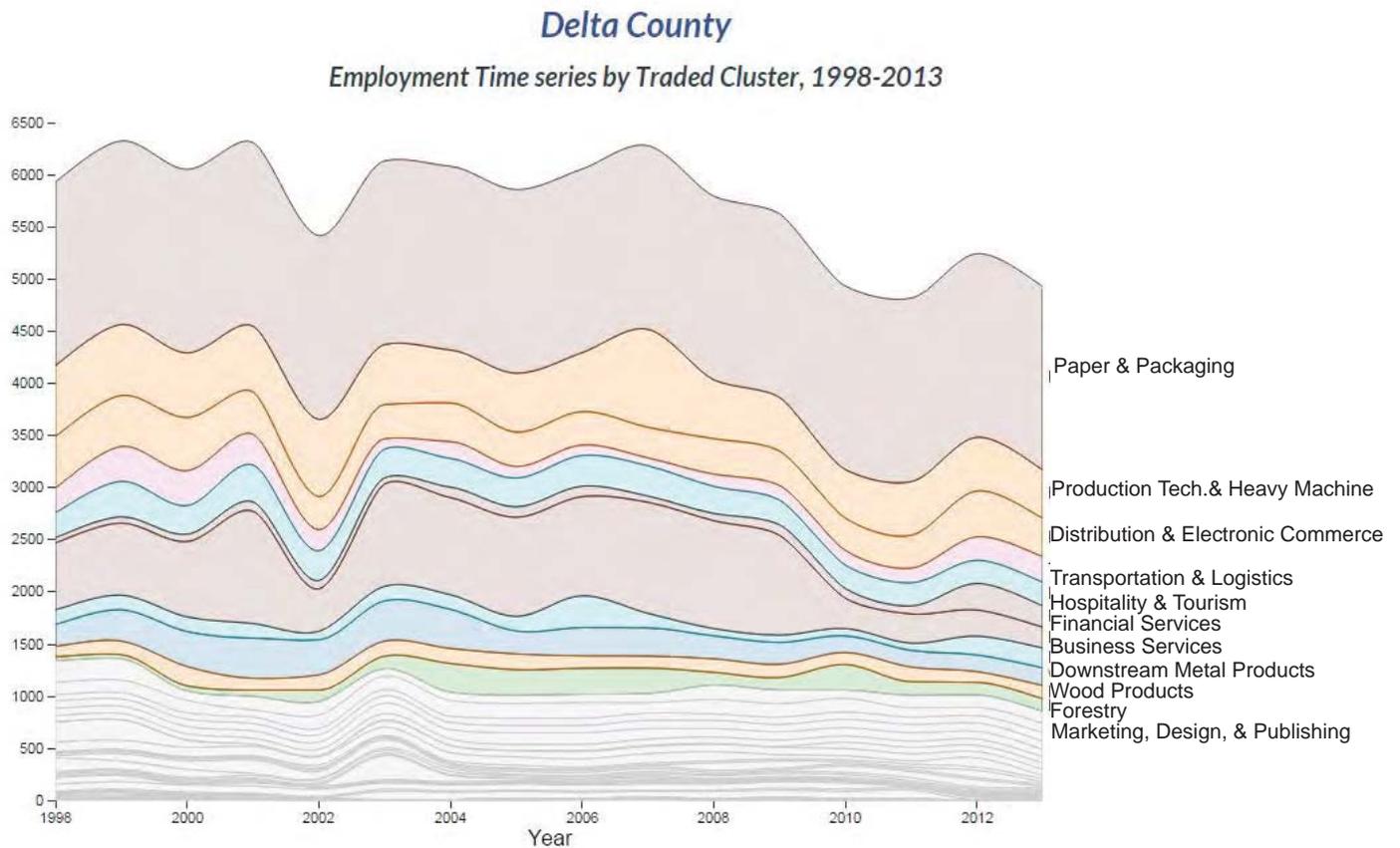


Figure 4-1: Number of people employed in Delta County traded industry clusters. Clustermapping.org

4.3 Major County Employers

Most of the major employers in the area are located within or near the Cities of Escanaba and Gladstone. Table 4-5 shows that a relatively high proportion of Delta County residents (28.4%) work outside the county. This may be due to people who commute to large employers located outside of the county, such as Island Resort and Casino, or the large number of jobs based in Marquette County.

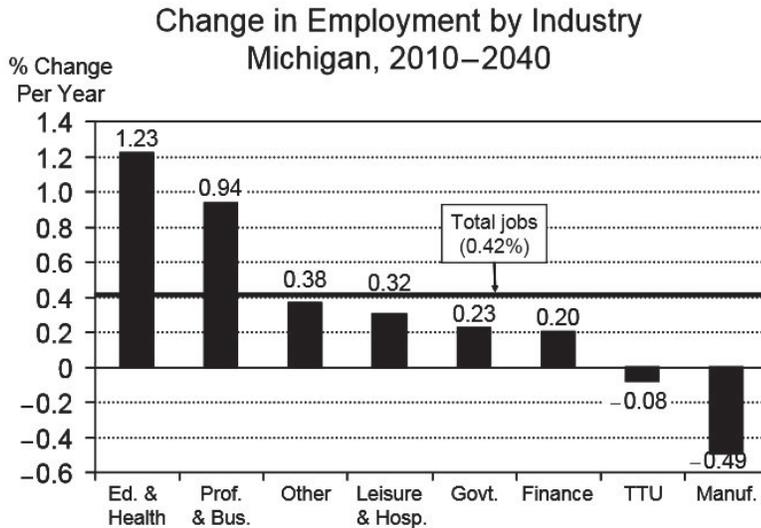


Figure 4-2: Projected employment trends¹.

4.4 Incomes

Comparing local income trends with those of state and national averages provides information about the amount of wealth that is available locally for expenditures on goods and services. The trends reflect the compensation paid to local workers. Income is measured in three ways: per capita income, which is derived from the total income reported for a community divided by the total population; household income, the average income reported for all households, including families; and family income, which includes married-couple families and other households made up of persons related by blood, marriage or adoption, but does not include persons living alone, unrelated persons sharing living quarters, or other non-family households. Maps 7, 8, and 9 compare the median incomes across communities in Delta County.

Table 4-6 shows that incomes in the City of Escanaba are generally lower than the county and state average. Comparing data from 2000 and 2013 shows the impact that the recession had on the state. In Michigan, Delta County, and Escanaba the per capita, median household, and median family incomes have all decreased significantly since 2000.

Table 4-7 describes the annual incomes of people in Escanaba, Delta County, and Michigan by household. Escanaba has a higher percent of lower income households and a smaller percentage of higher income households than in Delta County and Michigan on average.

Employer	2013	2014
Hannahville	1,084	1,084
Verso	1,000	1,000
OSF Hospital	603	603
Escanaba Schools	434	434
EMP	400	400
Walmart	400	400
Bay College	275	275
Elmer's	150	150
Gladstone Schools	148	148
Andex	85	85
VanAire	77	73
Besse Forest Products	60	60
Marble Arms	30	26

Source: Delta County EDA

Location	Percentage
Work in MI	98.0%
Work in Delta County	69.6%
Work outside Delta County	28.4%
Work outside MI	2.0%

Source: ACS Survey 2013

1. Grimes, D. R., & Fulton, G. A. (2012). Retrenchment and Renewal: The Economic and Demographic Outlook for Southeast Michigan Through 2040. Institute for Research on Labor, Employment, and the Economy, University of Michigan.

Area	2000 actual	2000 adj. for inflation	2010 actual	2010 adj. for inflation	2013	% Change 2000-2013
Per capita Income						
Escanaba	17,589	23,795	19,199	20,511	19,556	-18
Delta County	18,667	25,253	22,064	23,572	22,471	-11
Michigan	22,168	29,989	23,622	25,236	25,681	-14
Median Household Income						
Escanaba	29,125	39,401	29,130	31,121	27,328	-31
Delta County	35,511	48,040	41,951	44,818	42,676	-11
Michigan	44,667	60,427	45,413	48,516	48,411	-20
Median Annual Income						
Escanaba	36,995	50,048	43,048	45,990	45,721	-9
Delta County	45,079	60,984	51,442	54,957	53,489	-12
Michigan	53,457	72,318	56,101	59,935	60,793	-16

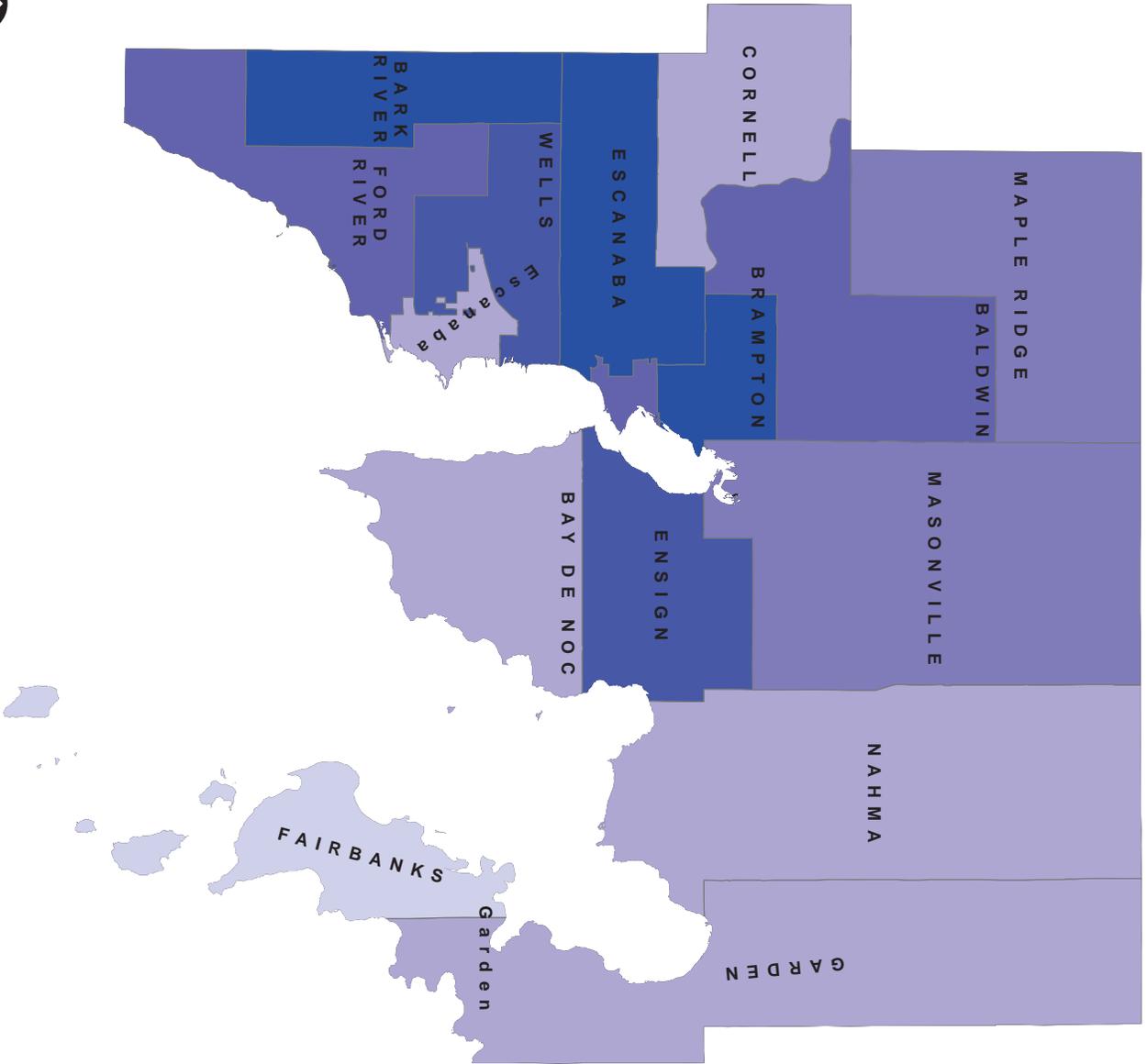
Source: 2000 US Census, 2010 and 2013 ACS Survey 5-Year Estimates

	Escanaba		Delta		Michigan	
	Number	%	Number	%	Number	%
Less than \$10,000	794	13.8	1,350	8.5	320,953	8.4
\$10,000 to \$14,999	684	11.9	1,175	7.4	237,074	6.2
\$15,000 to \$24,999	1,219	21.2	2,478	15.6	489,200	12.9
\$25,000 to \$34,999	667	11.6	1,795	11.3	436,343	11.5
\$35,000 to \$49,999	713	12.4	2,446	15.4	583,142	15.3
\$50,000 to \$74,999	834	14.5	3,145	19.8	719,773	18.9
\$75,000 to \$99,999	431	7.5	1,938	12.2	427,891	11.2
\$100,000 to \$149,999	276	4.8	1,080	6.8	382,961	10.1
\$150,000 to \$199,999	86	1.5	318	2.0	118,836	3.1
\$200,000 or more	46	0.8	159	1.0	90,448	2.4
Total	5,750	100	15,885	100	3,806,621	100

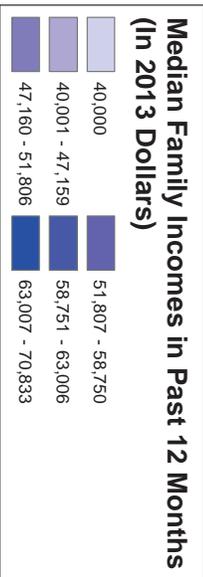
Source: 2009-2013 ACS Survey, 5 Year Estimates

Income	Escanaba		Delta	Michigan
	Number	%	%	%
Wage or Salary	3,618	62.9	67.3	73.9
Supplemental Security	446	7.8	5.6	5.5
Social Security	2,208	38.4	39.9	32.3
Public Assistance	330	5.7	3.4	3.9
Retirement	1,136	19.8	24.2	22.7
Food Stamp/SNAP	1,470	25.6	15.8	16.7

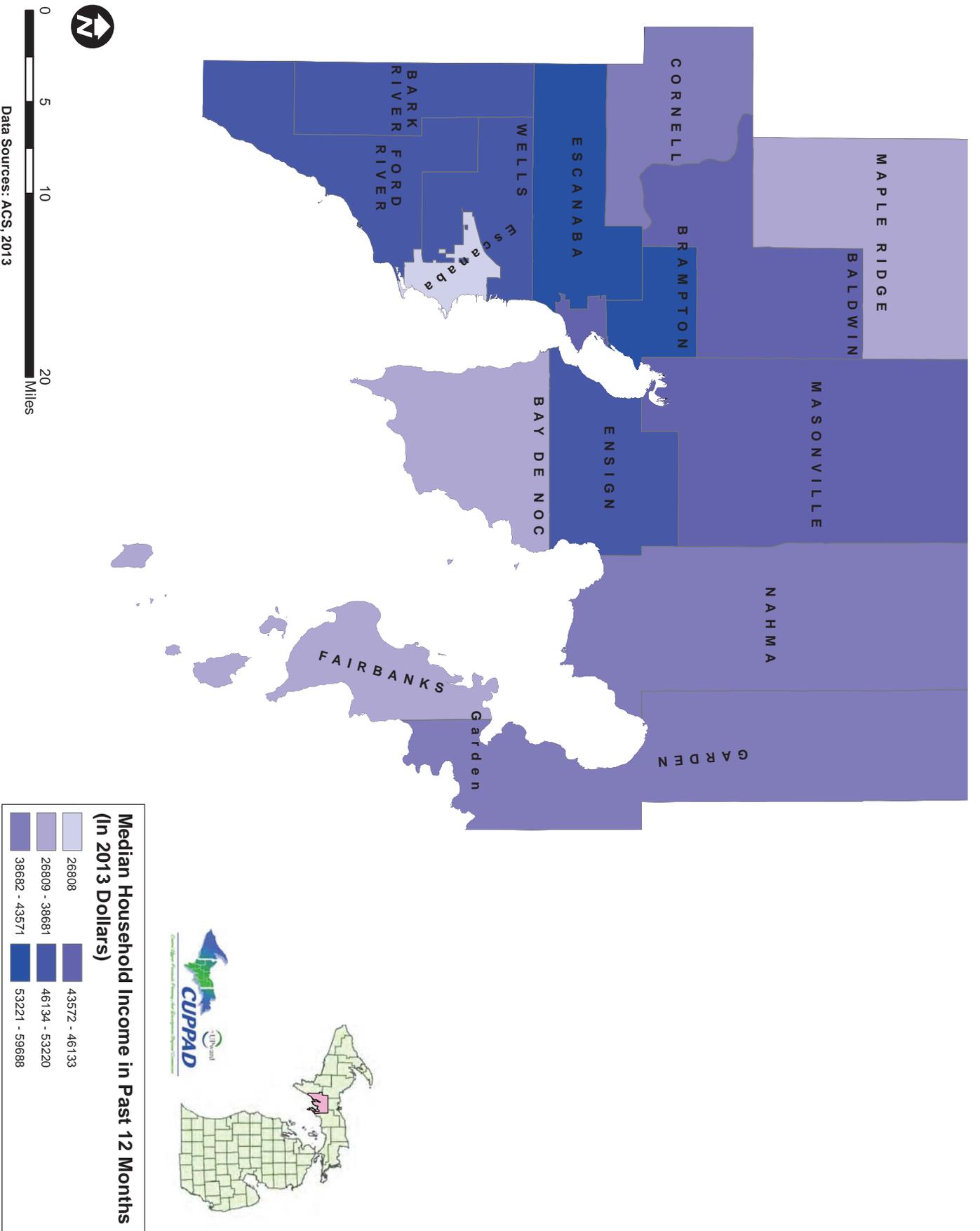
2010 ACS Survey 5-Year Estimates



Data Sources: ACS, 2013



Map 7: Delta County, Median Family Incomes, 2013



Map 8: Delta County, Median Household Incomes, 2013

4.5 Poverty

Another way to compare the relative wealth of communities is to compare poverty rates. The poverty level for a particular year is determined by the Bureau of the Census and is based on a complex formula that includes 48 different thresholds. In 2013 the poverty level for a family of four was \$23,550.

Table 4-9 compares the poverty rates for different groups across Escanaba, Delta County, and Michigan. The data indicates Escanaba has poverty rates higher than that of the County and State, in particular for children and young families. This may be due to a higher unemployment rate in the area. Additionally, amongst people who are employed, the loss of highly paid manufacturing jobs and in increase in low wage retail jobs means people in the area have significantly less money than they did a decade ago (see Table 4-6). Poverty amongst children is negatively associated with health, education, and economic outcomes. Poverty in the county is likely concentrated in Escanaba as it is one of the few places where people without a vehicle can still get around with relative ease. Note that in Table 4-9 the categories defined by the Census Bureau overlap and therefore do not total 100 percent.

Table 4-9: Poverty Rates	
Escanaba	
All People	26.8
Under 18	38.2
Female Householder families	51.2
Families w/ children under 5	48.3
65 and over	11.9
Delta County	
All People	16.4
Under 18	23.7
Female Householder families	39.1
Families w/ children under 5	23.6
65 and over	9.4
Michigan	
All People	16.8
Under 18	23.6
Female Householder families	34.3
Families w/ children under 5	19.8
65 and over	8.2

Source: 2010 ACS Survey, 5-Year Estimates

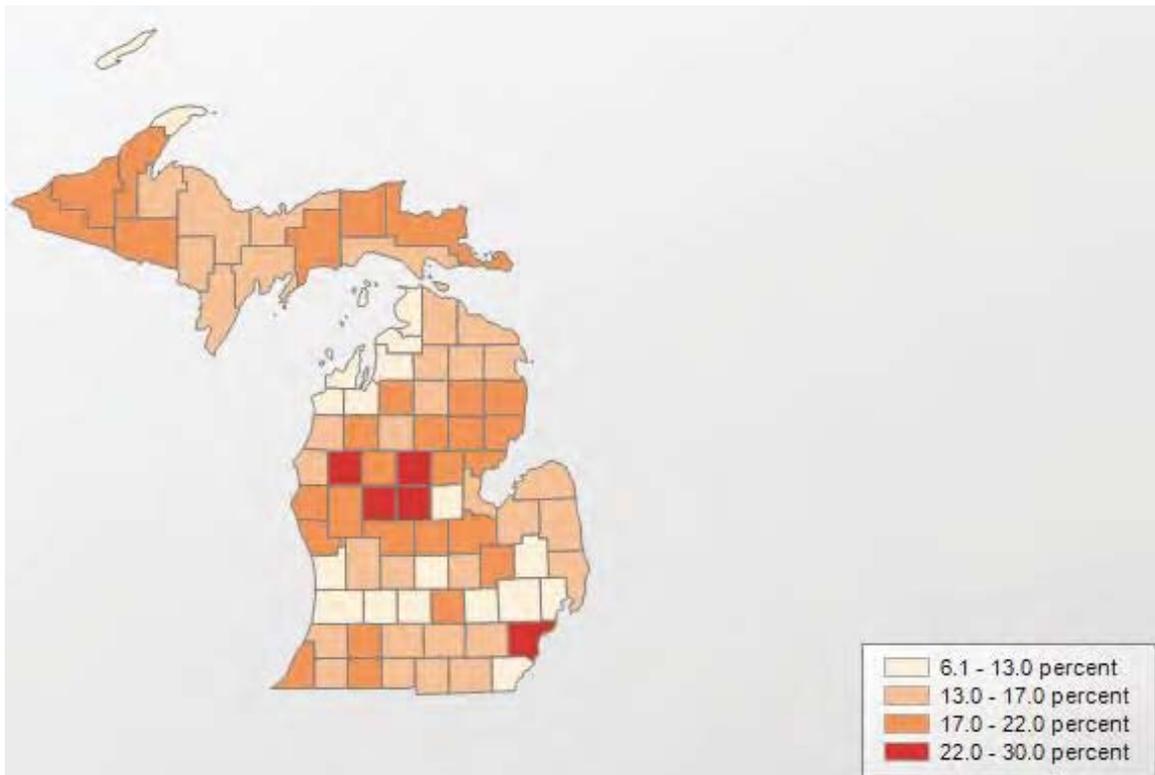


Figure 4-2: Percent of Total Population in Poverty, 2014. USDA.

4.6 Issues and Opportunities

Issues:

The economy of the region has suffered with the decline of highly-paid manufacturing and natural resource industry jobs. Public survey respondents identified the need for more and better jobs in the community as the thing most in need of improvement in the City.

Although many mining and manufacturing jobs have left the region, the county has attracted other high-wage sectors such as health care and a small number of scientific and technical jobs. However, community leaders need to do more to increase regional economic resilience.

There are relatively high numbers of people in the community that rely upon social security, retirement savings, and supplemental security incomes. Additionally, income levels in Escanaba are lower than those of the county and state averages. This indicates that many residents do not have the disposable income that other communities have and that there are many residents who may be reliant upon other community resources such as public transportation, community gardens, food banks, and public health clinics.

The concentration of poverty in Delta County in the City of Escanaba is a concern as it is associated with a higher level of social problems, negative health outcomes, and a decreased ability for residents to overcome economic hardship.

Opportunities:

Although the increase in poverty and lower income levels in the City are a challenge, it can also open the door for income-based grant opportunities, such as CBDG funding.

Chapter 5: Housing

Introduction

Escanaba residents and officials consider neighborhoods and housing quality as the building block of the community. Diversity of housing types and availability of quality housing are very important factors in Escanaba and the quality of life it offers to its residents. Therefore, it is important to highlight those areas that may be in need of improvement and those that may be of importance to the community. Amenities within each neighborhood such as walkability and open space are also important factors adding to the quality of life and should be viewed as an important element in the community.

The information in this chapter provides city leaders with data about the current housing stock, including important changes that have occurred since the development of the previous plan. This chapter also includes information about structural and occupancy characteristics.

5.1 Housing Characteristics

According to the 2010 Census there are 6,178 housing units within the City. This is a -1.3 percent decrease in the number of units since 2000, but may be attributed to a change in how data was collected for the 2010 census. Overall, there was an increase in housing units in of 22 percent since 1970. In Delta County the number of housing units increased to 20,214, a 5.1 percent increase from 2000 and a 53.2 percent increase from 1970. The central Upper Peninsula six county region also saw an increase in the number of housing units to 95,629, a 54.7 percent increase since 1970. These trends are detailed in Table 5-1.

Table 5-1: Housing Units Selected Years										
Area	1970	1980	Percent Change	1990	Percent Change	2000	Percent Change	2010	Percent Change	Percent Change 1970-2010
Escanaba	5,057	5,856	15.8	6,063	3.5	6,258	3.2	6,178	-1.3	22.2
Delta County	13,185	16,905	28.2	17,928	6.1	19,223	7.2	20,214	5.1	53.3
CUPPAD Region	61,798	80,271	29.9	85,650	6.7	91,115	6.4	95,629	5.0	54.7
Michigan	2,957,303	3,589,898	21.4	3,847,926	7.2	4,234,279	7.0	4,532,233	7.0	53.4

Source: US Census, Years Cited

Table 5-2 describes the occupancy characteristics of housing units in Escanaba, Delta County, and the State of Michigan. A large majority of housing units in the city are occupied (91.0%). This percent is larger than the percent of occupied in the county (79.1%) and in the state (85.4%). Additionally, the majority of units are owner occupied (61.3%), which is less than the percentages of owner occupied units in the county and state. More than one-third of occupied units are occupied by renters, which is well above the state average. This may be because Escanaba is a relatively dense, walkable community with public transportation and multi-family housing units, these amenities are often not found in more rural areas of the state. The distribution of rental units is illustrated in Map 10.

Looking at vacant units, the City of Escanaba has a much higher rate of vacant rental units (26.3%) than Delta County (6.5%) or Michigan as a whole (21.6%). Additionally, the City has a higher rate of vacant units that are for sale (14.7%) than the county (7.2%) or the state (11.7%). The higher vacancy rate for rental units compared to the county as a whole may be attributed to lower rents in outlying areas.

In Escanaba, 4.0 percent of vacant units had been bought or rented but were not yet occupied. Additionally, 10.4 percent of the vacant units were for seasonal use only. The number of vacant units attributed to seasonal use in the city is much smaller than the percent for Delta County and Michigan. This is due to the fact that Escanaba is a built-up, urban area and seasonal dwellings tend to be in rural, isolated areas. The percentage of vacant housing that is for sale is high when compared to the county and state. The majority of housing units in the city are single-family detached homes, as shown in Table 5-3.

Table 5-3: Vacant and Occupied Housing Units						
Units	City of Escanaba		Delta County		Michigan	
	Number	Percent	Number	Percent	Number	Percent
Total	6,178	100	20,214	100	4,532,233	100
Occupied	5,622	91.0	15,992	79.1	3,872,508	85.4
Owner	3,448	61.3	12,636	79.0	2,793,342	72.1
Renter	2,174	38.7	3,356	20.9	1,079,166	27.9
Vacant	556	9.0	4,222	20.9	659,725	14.6
For Rent	146	26.3	274	6.5	141,687	21.6
For Sale	82	14.7	303	7.2	77,080	11.7
Rented or Sold, Not Occupied	22	4.0	84	2.0	24,662	17.4
Seasonal or Occasional Use	58	10.4	2,872	68.0	263,071	39.9
Other	248	44.6	688	16.3	151,452	23

Source: US Census, 2010

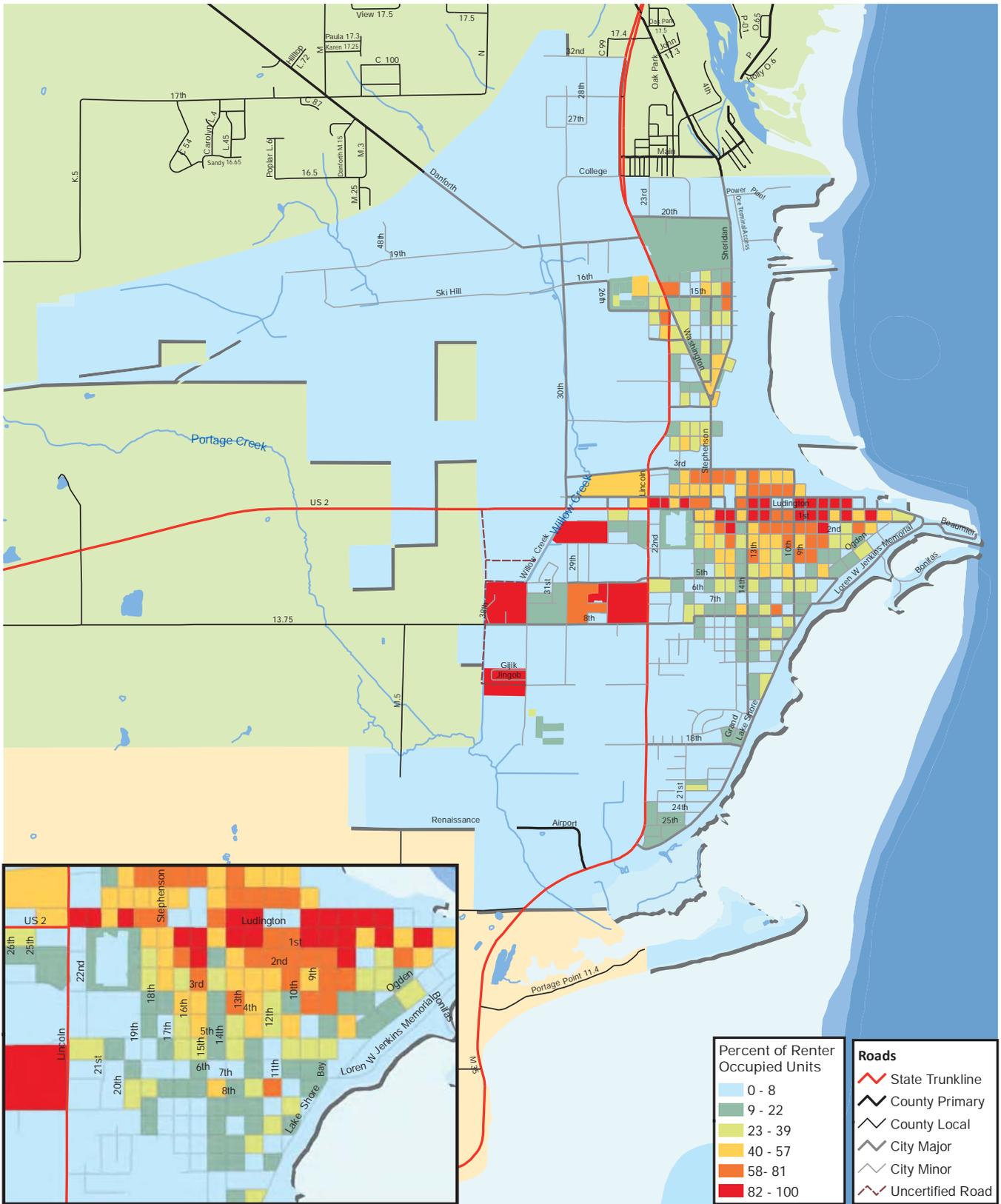
A large percentage of homes in Escanaba were built prior to 1939, as shown in Table 5-4 and Map 11. This is due to the mining and timber booms in the area in the late 1800's. In comparison to other areas, the percent of older homes is much greater than that of the county or the state. While this adds a unique charm to the community, it may also pose a challenge as older homes tend to be more costly to heat and maintain. Additionally, the sizes, styles, and amenities of older homes may not meet the demands of the current housing market. Because of Escanaba's aging demographics, older homes that are large and costly to maintain may make them a poor fit for their current residents.



Image 5-1: Residential neighborhood in Escanaba

Table 5-4: Housing Units by Structure						
Units in Structure	Escanaba		Delta County		Michigan	
	Percent Owner Occupied	Percent Renter	Percent Owner Occupied	Percent Renter	Percent Owner Occupied	Percent Renter
1, Detached	89.9	25.6	91.7	37.5	88	33.4
1, Attached	0.2	5.7	0.5	3.9	4.3	6.2
2 Apartments	1.9	20.0	0.7	14.4	0.1	6.5
3 or 4 Apartments	0.2	11.8	0.1	9.5	0.5	7.5
5 to 9 Apartments	0.0	9.2	0.0	6.7	0.5	13.8
10 or more	0.0	26.4	0.1	21.0	0.6	29
Mobile home or other	7.8	1.3	6.9	7.0	5.5	3.6
Total	100%	100%	100%	100%	100%	100%

Source: 2013 ACS Survey, 5 Year Estimates



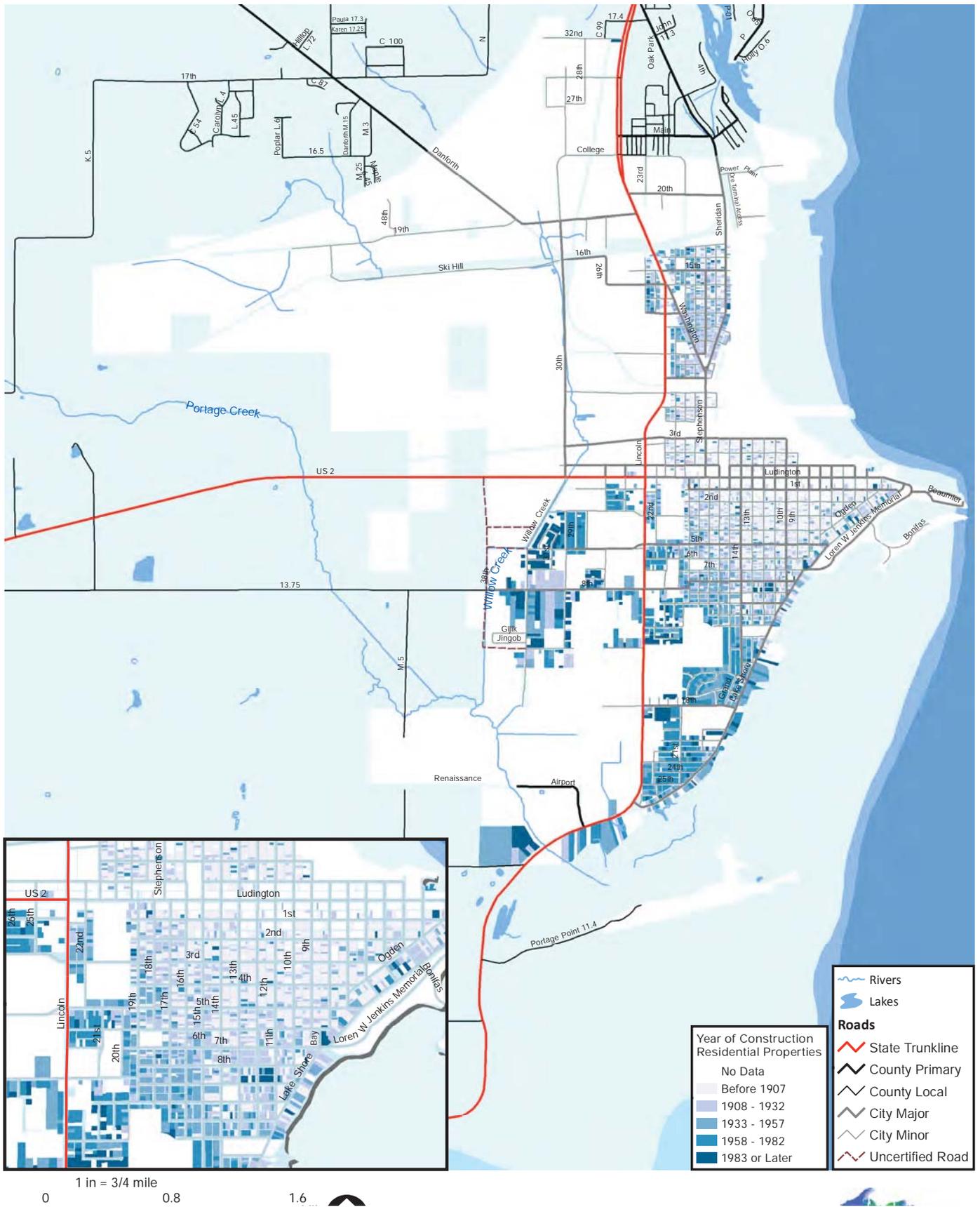
1 in = 3/4 mile
 0 0.75 1.5 Miles



Data Sources: State of MI, 2010 US Census



Map 10: City of Escanaba, Distribution of Renter Occupied Units, 2010



Map 11: City of Escanaba, Age of Residential Properties, 2014

Table 5-5: Percentage of Occupied Housing Units						
	City of Escanaba		Delta County		Michigan	
	Owner Occupied %	Renter Occupied %	Owner Occupied %	Renter Occupied %	Owner Occupied %	Renter Occupied %
2010 or Later	0.0	0.0	0.0	0.0	0.2	0.3
2000 to 2009	2.7	7.4	9.6	1.6	11.4	8.5
1980 to 1999	11.0	7.1	22.5	12.7	23.2	23.1
1960 to 1979	13.1	33.3	24.1	32.0	26.5	31.7
1940 to 1959	28.8	16.3	19.4	18.1	24.5	20.9
1939 or Earlier	44.4	35.8	24.2	31.2	14.21	15.5

Source: 2013 ACS Survey, 5-Year Estimates

Table 5-5 describes the household relationships in Escanaba, Delta County, and the State of Michigan. One of the most significant differences between Escanaba and the other areas is a smaller percent of householders living with their spouse within Escanaba (16.4%) than there are in Delta County or Michigan. Additionally, in Escanaba there is a greater portion of people living in group quarters (4.4%) than there is in Delta County (1.7%) or the State (2.3%) This is likely due to the presence of the county jail and the Bay Pines Detention Center.

Table 5-6 compares household characteristics for the City of Escanaba in 2000 and 2010. Table 5-7 shows the change in average household size for selected areas since 2000. The City trends are similar to those seen in other parts of the state and nation. The average household size is shrinking in Escanaba, Michigan, and the United States. For Escanaba, it has decreased from 2.63 in 1980 to 2.14 in 2010. This helps to explain why in spite of a population decrease there is no surge in abandoned homes in the community.

Table 5-6: Household Relationships						
	Escanaba		Delta County		Michigan	
	Number	Percent	Number	Percent	Number	Percent
Total Population	12,616	100	37,069	100	9,883,640	100
In Households	12,056	95.6	36,446	98.3	9,654,572	97.7
Householder	5,622	44.6	15,992	43.1	3,872,508	39.2
Spouse	2,071	16.4	8,274	22.3	1,857,127	18.8
Child	3,248	25.7	9,492	25.6	2,892,845	29.3
Other Relatives	317	2.5	925	2.5	493,487	5
Non-Relatives	798	6.3	1,763	4.8	538,605	5.4
In Group Quarters	560	4.4	623	1.7	229,068	2.3
Institution	373	3.0	391	1.1	109,867	1.1
Other	187	1.5	232	0.6	119,201	1.2

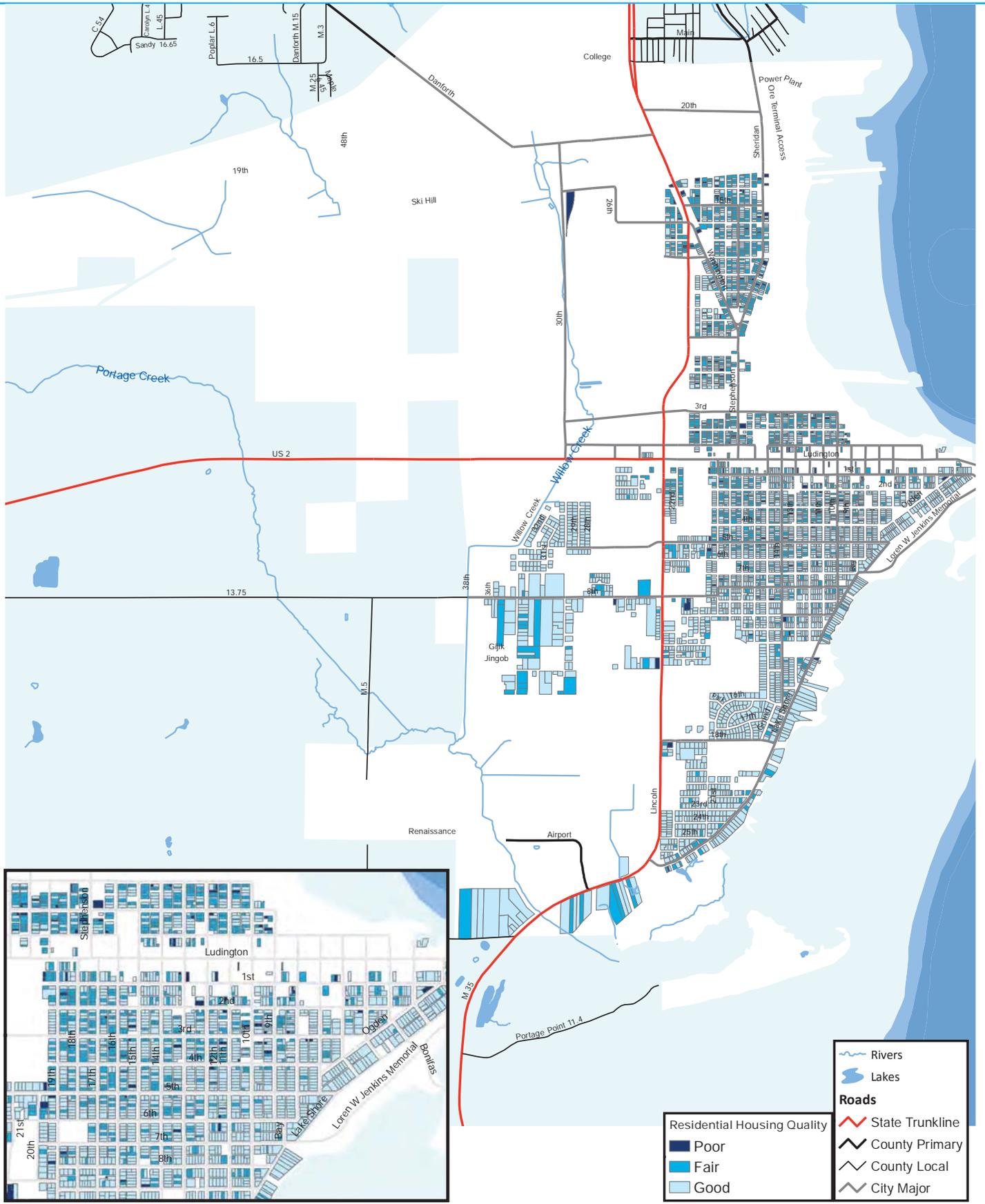
Source: 2010 US Census

Table 5-7: Average Household Size Selected Areas		
Average Household Size	2000	2010
City of Escanaba	2.19	2.14
Michigan	2.56	2.49
U.S.	2.59	2.58

Source: US Census, Years Cited

Table 5-8: Household Characteristics of Escanaba				
Type	2000		2010	
	Number	Percent	Number	Percent
Family Households	3,297	56.8	3,090	55.0
Husband-Wife Family	2,445	42.2	2,071	36.8
Female Householder	651	11.2	762	13.6
Non-Family Households	2,503	43.2	2,532	45.0
Householder Living Alone	2,148	37	2,145	38.2
Households w/ persons 65+	1,918	33.1	1,742	31.0
Total Households	5,800	100	5,622	100

Source: 2000 & 2010 US Census



Map 12: City of Escanaba, Residential Housing Quality

The community is less densely populated than it once was, which means the per capita cost of providing public services has increased. This follows a nationwide trend toward smaller households that is attributed to more one person households and smaller families. This has also resulted in reduced enrollment levels in the school system.

The percentage of husband-wife families has decreased in the city to 36.8 percent, which may be due to the difficult economy in the decade of 2000-2009 as well as shifting cultural norms. The Pew Research Center has found that marriage has become less common amongst those with lower incomes and less education¹. Additionally, more people are choosing to co-habitate without getting married. The percent of people living alone has increased from 37 percent in 2000 to 38.2 percent in 2010 and the percent of households with persons 65 or over and over has also decreased from 33.1 percent in 2000 to 31 percent in 2010.

5.2 Financial Characteristics

Table 5-8 describes rent paid in renter-occupied housing units in Escanaba, Delta County, and Michigan. By comparing the median rent paid in each of these areas indicates that Escanaba and Delta County have significantly lower housing costs than the state as a whole. The rents paid in Escanaba and Delta County are not significantly different, with the median rent in Delta County being six dollars more than the median rent in Escanaba.

Table 5-9 illustrates the affordability of rental housing in Escanaba. Affordable rent is considered to be less than 30 percent of a renter's monthly income. Table 5-8 shows there is a wide range in monthly rent costs in the city and the rents are more affordable than the state average. However, the majority of renters pay more than 30 percent of household income on rent. People with lower incomes are more likely to have difficulty paying renter or owner costs. Comparing renter and owner data shows home owners generally have higher incomes and are more able to afford housing costs.

Public Housing: There is one public housing development, Harbor Tower, within the city that is administered by the City of Escanaba Housing Commission. It is located at 110 S 5th Street and contains 175 one bedroom apartments for low-income residents.

a e :						
ontract ent n Do ars enter ccu ed ous ng n ts						
	Escanaba		Delta County		Michigan	
Value	Number	Percent	Number	Percent	Number	Percent
Less than \$100	32	1.6	39	1.2	4,938	0.5
\$100 to \$149	21	1.0	41	1.2	4,883	0.5
\$150 to \$199	135	6.7	145	4.4	10,415	1.0
\$200 to \$249	198	9.8	272	8.3	23,561	2.2
\$250 to \$299	114	5.6	159	4.8	16,667	1.6
\$300 to \$349	131	6.5	238	7.2	16,941	1.6
\$350 to \$399	216	10.7	446	13.5	18,469	1.7
\$400 to \$449	180	8.9	245	7.4	26,306	2.5
\$450 to \$499	232	11.5	341	10.4	37,587	3.53
\$500 to \$549	328	16.2	505	15.3	47,475	4.45
\$550 to \$599	124	6.1	179	5.4	58,860	5.52
\$600 to \$649	60	3.0	138	4.2	69,315	6.50
\$650 to \$699	118	5.8	220	10.9	70,850	6.64
\$700 to \$749	10	0.5	21	0.6	73,551	6.90
\$750 to \$799	27	1.3	29	0.9	66,976	6.28
\$800 to \$899	0	0.0	42	1.3	116,894	10.96
\$900 to \$999	8	0.3	8	0.2	92,432	8.67
More than \$1,000	21	1.0	23	0.7	482,474	45.25
No Cash Rent	64	3.1	201	6.1	59,147	5.55
Total	2,019	100	3,292	100	1,066,218	100.00
Median Rent	436		442		623	

Source: ACS 2013, 5-Year Estimates, Table B25063

1. Taylor, P. (2010). The Decline of Marriage and Rise of New Families (Rep.) Retrieved April 30, 2016 from Pew Research Center: <http://www.pewsocialtrends.org/files/2010/11/pew=social-trends=2010-families.pdf>

Income: Income levels in the City of Escanaba, as indicated in the most recent ACS survey, are somewhat lower than that of Delta County and Michigan as a whole. Table 5-11 shows that a higher percent of Escanaba residents live below 200 percent of the poverty level than in Delta County or Michigan.

Table 5-12 compares income levels between the city, county, and state. Escanaba has lower levels of median household, family, and per capita incomes than Delta County and the State of Michigan.



Images 5-2: Historic home in Escanaba.

Table 5-11: Percentage of Households by Income Bracket				
Household Income	% in income bracket	<20%	20 - 29%	30%<
Less than \$20,000	65.4	1.9	12.1	51.4
\$20,000 to \$34,999	19.6	1.0	10.8	7.7
\$35,000 to \$49,999	6.3	4.7	1.6	0.0
\$50,000 to \$74,999	2.9	2.0	0.5	0.3
\$75,000 or more	0.9	0.9	0.0	0.0
Total		10.5	25.0	59.4

*Gross rent is the sum of rent and utilities, 2013 ACS Survey, 5-year Estimates

Table 5-12: Selected Median Household Income Percentages				
Household Income	% in income bracket	<20%	20 - 29%	30%<
Less than \$20,000	22.1	1.2	7.2	13.7
\$20,000 to \$34,999	19.1	7.1	3.7	8.4
\$35,000 to \$49,999	15.5	8.4	4.5	2.6
\$50,000 to \$74,999	20.7	13.1	6.7	0.9
\$75,000 or more	22.0	18.6	3.4	0.0
Total		48.4	25.5	25.6

*Gross rent is the sum of rent and utilities, 2013 ACS Survey, 5-year Estimates

Table 5-13: Persons by Poverty Status						
	Escanaba		Delta County		Michigan	
	Number	%	Number	%	Number	%
50% of Poverty	948	7.8	1,774	4.9	774,782	6.5
125% of Poverty	4,409	36.5	8,091	22.3	2,067,179	17.3
150% of Poverty	5,427	44.9	10,021	27.6	2,518,330	21.1
185% of Poverty	6,163	51.0	12,614	34.7	3,156,046	26.5
200% of Poverty	6,476	53.6	13,926	38.3	3,415,155	28.6

Source: ACS 2013, 5-Year Estimates

Table 5-14: Income Levels by Area (In Dollars)					
Area	Median Income		Per Capita	Income Below Poverty Level	
	Household	Family		% of Persons	% of Families
Escanaba	27,328	45,721	19,556	26.8	11.2
Delta County	42,676	53,489	22,471	16.4	18.5
Michigan	48,411	60,793	25,681	16.8	12

Source: 2013 ACS Survey, 5-year Estimates

5.3 Issues and Opportunities

Issues:

The majority of housing units in the City are single-family detached units, although relative to the surrounding rural areas, the City has a high percentage of multi-family structures. Modifications should be made to the City Zoning Ordinance which encourage the development of a variety of housing types, such as townhomes, attached residential dwellings, and mixed uses. A variety in housing styles will allow all age groups to find housing based on lifestyle conditions and remain in the City.

The majority of homes in the city were built prior to 1940. While the older homes contribute to the aesthetic character of the community, they are also more costly to heat and maintain.

Along with most other areas in the country, the number of people per household has slowly decreased over the last several decades. While the total number of people living in Escanaba has declined, there has not been a surge in vacant homes, there are simply fewer people in each house.

In public surveys, residents indicated that improving the quality of housing, especially in the downtown area, to be a primary concern. There are two neighborhood enhancement areas identified on Map 13, and these areas are located on the east side of Lincoln Road on either side of Ludington Street. The intent of the neighborhood enhancement areas is to concentrate code enforcement, infrastructure improvements, and home ownership programs in defined areas to increase the property values resulting in stabilized neighborhoods.

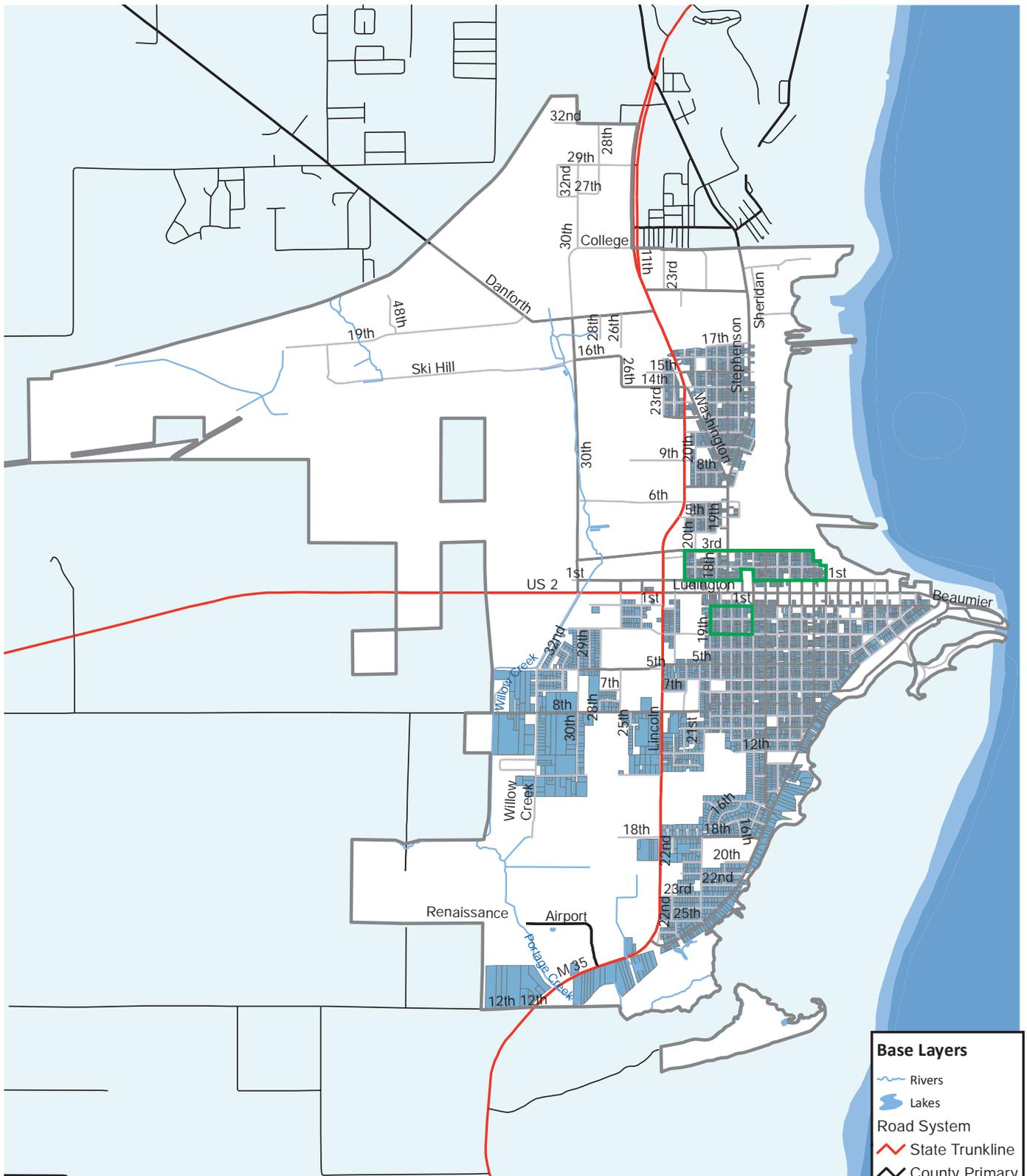
The increase in the percent of rental units is a concern as it is an indicator of economic insecurity.

Opportunities:

In order to protect historic neighborhoods the City could adopt an historic overlay that would protect the aesthetic character of these areas. The historic stock of residential structures sets the City apart from surrounding Townships. Efforts to manage this historic resource should be a priority for the community. The area between 1st Avenue South, South 7th Street, and Lake Shore drive to be designated as an historic overlay district, which means it poses a high concentration of historic structures deserving to be preserved for the community. A neighborhood historic overlay district would provide a basis for the City to manage the appearance of the exterior of new structures and significant additions within this area. The overlay district would not be a local historic district but a zoning tool used to preserve the architectural and historic integrity of the neighborhood.

There is a demand in the local housing market for units often called the 'missing middle'. This includes market rate multi-family or clustered housing within walking distance to shops and other amenities that can help the City meet the demand from young professionals and retirees for walkable urban living.

There are policy and funding tools available from Michigan State Housing Development Authority (MISDHA) and U.S. Department of Housing and Urban Department (HUD) to help the City address the levels of blight and homeownership.



Base Layers

- Rivers
- Lakes
- Road System**
- State Trunkline
- County Primary
- County Local
- City Major
- City Minor

Map Features

- Occupied Residential Parcels
- Neighborhood Enhancement Area

1 in = 3/4 mile
 0 0.75 1.5 Miles

Data Sources: State of MI, City of Escanaba



Map 13: City of Escanaba, Neighborhood Enhancement Zones

Chapter 6: Natural Features and Resources

Introduction

Recognizing and highlighting the natural features of an area is critical for protecting natural systems and making land use decisions. Therefore, the following sections highlight some of the natural features of the City. Escanaba is located along the north shore of Lake Michigan, sheltered by Little Bay de Noc, in a region known for its abundant natural resources. Healthy local ecosystems support diverse, productive fisheries and terrestrial wildlife populations. The Little Bay de Noc is surrounded by forests and wetlands that help to maintain the high quality waters that empty into the bay. These resources and the different landscapes of the region afford residents and visitors an array of recreational opportunities. The community values these rich natural resources and want to ensure they are sustained for future generations of residents.

6.1 Climate

According to the Koppen Climate Classification system, Escanaba has a humid continental climate, described as an area with large seasonal temperature swings, warm or hot and humid summers and cold to frigid winters with precipitation occurring somewhat regularly throughout the year. The climate in and around the City of Escanaba is heavily influenced by the proximity of Lake Michigan and Lake Superior to the north. Escanaba is situated in a region with long, cold winters and relatively cool summers. The lakes help to keep summer temperatures cool and winter temperatures warmer than inland areas. The proximity of the lakes also creates lake effect snow, although not as much as the northern part of the region. The lake effect snow results from cool air masses moving over the relatively warm waters of the lakes. When these air masses reach the cooler land areas, the moisture picked up from the lake is deposited as snow. The average annual temperature is 42°F. The average high and low temperatures range from a high of 25°F and 7°F in January to 76°F and 57°F in July. The City receives approximately 28.51 inches of rain per year, with the wettest month in September and the driest month in February¹.

6.2 Topography

As with the rest of the Upper Peninsula, Escanaba was shaped by glacial activity and the Great Lakes. Escanaba is located in a gently sloping region on the ancient lakebed of Lake Michigan. Escanaba drains toward Lake Michigan and is situated in a low-lying area with minor or elevation change. Further north and west, elevation begins to rise and greater slopes begin to occur, as shown in Map 14. Overall, Escanaba contains few areas with steep slopes, and has a gentle elevation increase moving toward the inland regions. These qualities are an asset for developing a non-motorized transportation network.

6.3 Geology

The bedrock surface of Delta County is formed by Paleozoic rocks of Ordovician and Silurian age. A glacial drift of varying thickness was deposited on the bedrock during the Pleistocene era. Many of the physical features of the county were formed during this era. Rocks from this era include limestone, dolomite, shale, sandstone, and gypsum deposited by shallow seas. In the northeastern part of the county, glacial deposits form areas of higher elevation. The Escanaba area was once covered by an

1. Your Weather Service. (2016). *Climate Escanaba-Michigan*. Retrieved November 1, 2015, from U.S. Climate Data, <http://usclimatedata.com/climate/escanaba/michigan/united-states/usmi0274>.

early glacial lake, as seen from the plains, beaches, and dunes of the area. The period of glaciation was followed by a period of erosion. The uplift of land after the last ice age formed the present shoreline of the area.

There are several alvar landscapes within Delta County and Escanaba that were formed during the late Ordovician and early Silurian periods when Michigan was covered in inland seas¹. Limestone was formed into flat, horizontal layers of rock which can be seen very clearly on the banks of the Escanaba river where the soil has eroded to expose the bare rock. This type of landscape has thin to no soil and, as a result, sparse grassland vegetation. Often flooded in the spring, and affected by drought in the summer, alvars support a distinctive group of prairie-like plants. This stressed habitat supports a community of rare plants and animals, including species more commonly found on prairie grassland. Lichens and mosses are common while trees and shrubs are absent or severely stunted.

6.4 Water Resources

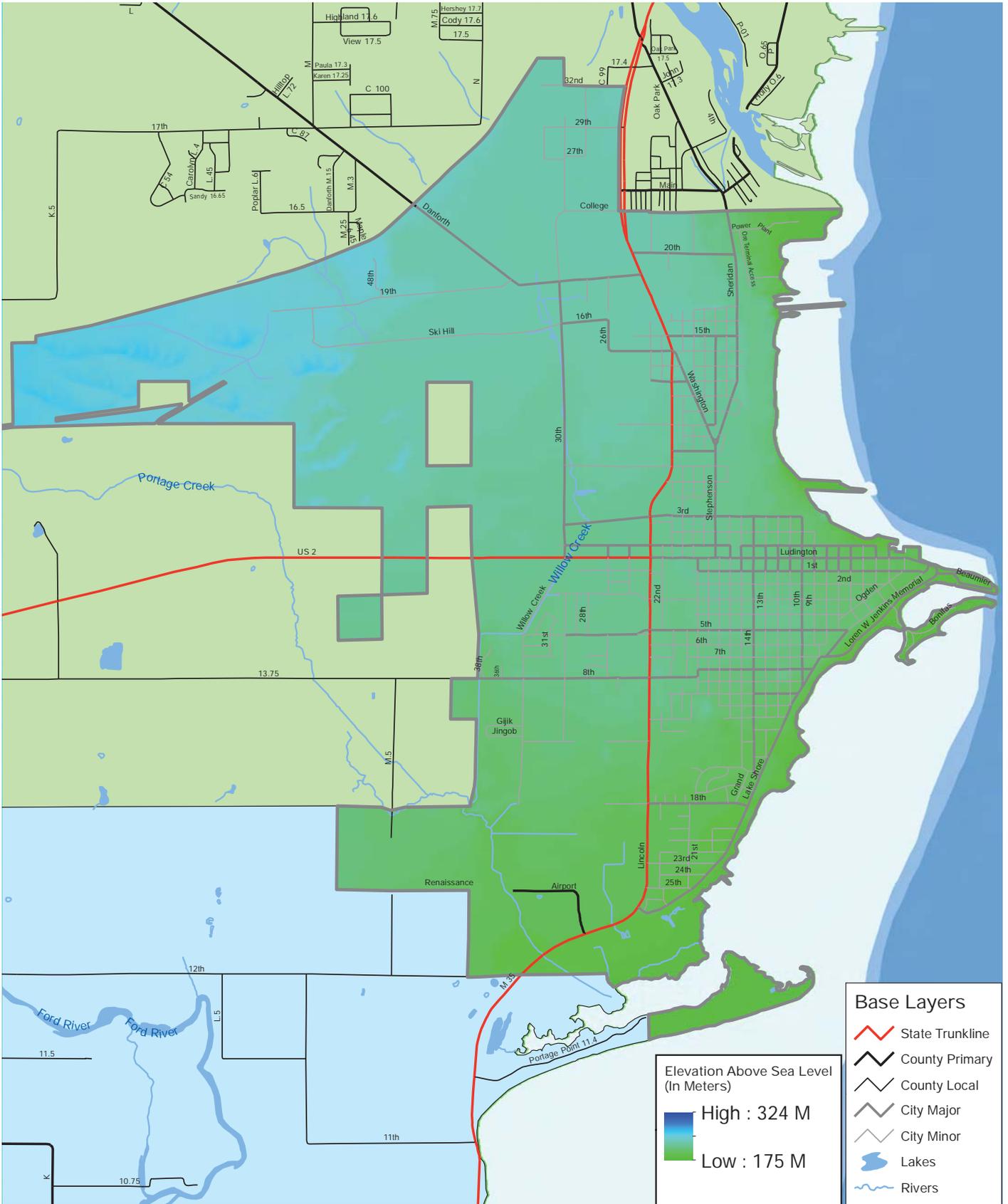
Little Bay de Noc, along with Big Bay de Noc to the east, is located in the most northwestern portion of Lake Michigan, in Green Bay. The Stonington Peninsula borders Little Bay de Noc on its eastern shore. Escanaba and Gladstone are located on the western shore. The northern extent of Little Bay de Noc culminates at the town of Rapid River where five rivers, Whitefish, Black George, Rapid, Tacoosh, and Days Rivers, empty into the bay. Each of these rivers contribute to the ecological diversity and abundant wildlife supported by the Little Bay de Noc region. Little Bay de Noc is one of the top walleye sport fisheries in the world, along with the nearby Big Bay de Noc. Water temperatures, depth, spawning habitat, and forage facilitate an ecosystem that supports the growth of large walleye populations, and other Great Lakes fish species.

Combined with all of the tributaries, Little Bay de Noc provides Escanaba residents with a unique fresh water resource that is strongly appreciated by the community as well as visitors. Preservation of and access to this hydrological resource is a community concern and should be a major consideration for future planning.

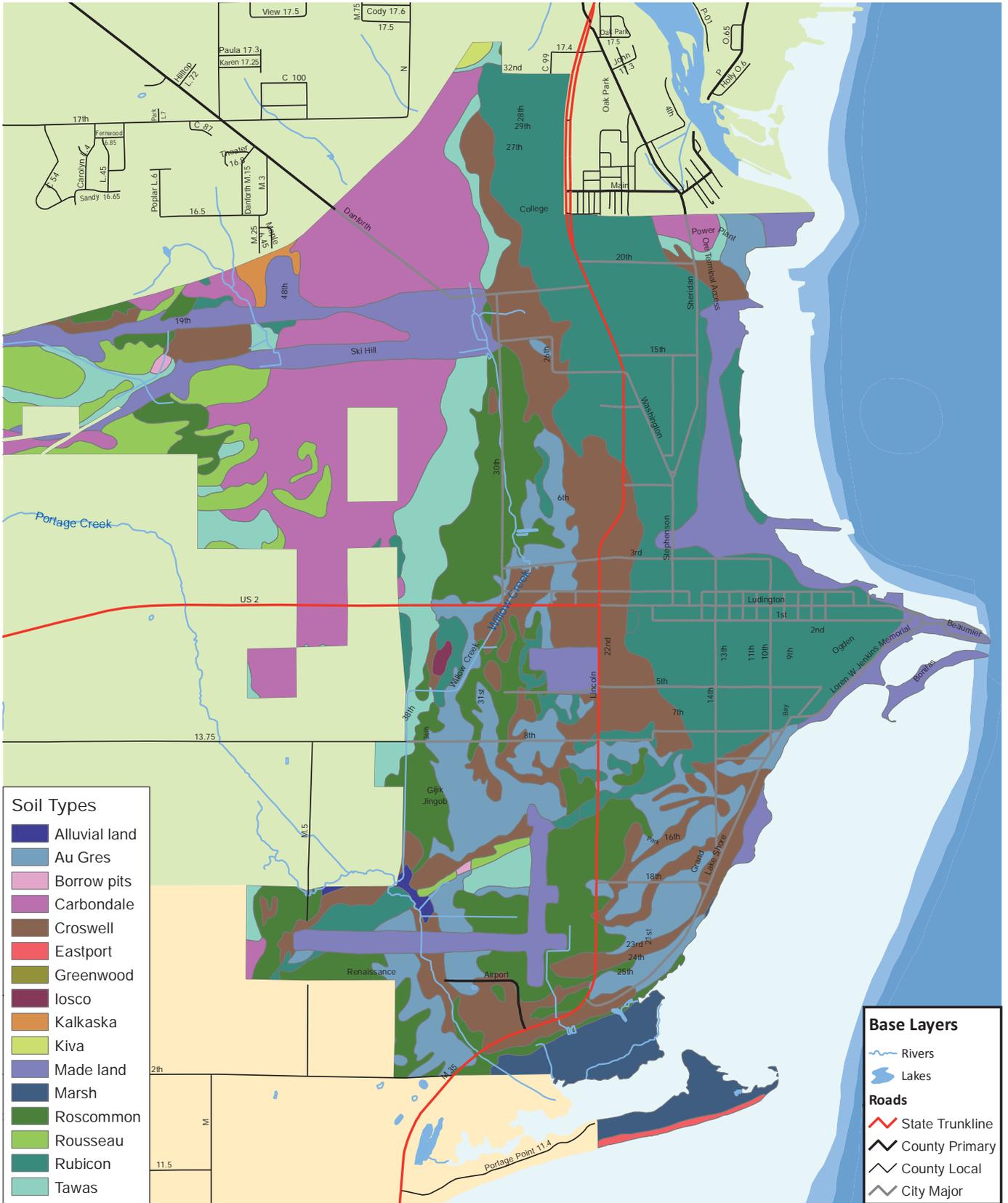
The rivers or streams within the City are Portage and Willow Creeks which flow from the northwest portion of the City southeast into Lake Michigan at Portage Point. Long stretches of these creeks have been altered. Additionally, Butcher's Creek flows underground at Veteran's Park before entering the bay. Stormwater falling in the city limits drains directly to Little Bay de Noc, or first to Willow, Portage, or Butcher's Creek and then into Lake Michigan.

Escanaba lies between two major watersheds, the Ford River that empties into Lake Michigan on the south side of the City, and the Escanaba River that empties into the lake on the north side of the City. The Escanaba River watershed is extensive and expands into the north and west into Menominee, Dickinson, and Marquette Counties. There are several hydro dams on the river that provide the area with a clean source of energy, but have drastically altered the natural hydrology of this river system. The Ford River watershed extends northwest into Delta, Menominee Dickinson, Marquette, and Iron Counties. The Ford River is undamed and enters into the bay just south of Escanaba's southern border, the Ford River empties into Little Bay de Noc. Each of these watersheds contain diverse hydrological systems that numerous streams and tributaries.

1. Kost, M.A., D.A. Albert, J.G. Cohen, B.S. Slaughter, R.K. Schillo, C.R. Weber, and K.A. Chapman. (2007). Natural Communities of Michigan: Classification and Description. Michigan Natural Features Inventory, Report No. 2007-21, Lansing, MI.



Map 14: City of Escanaba, Elevation above Sea Level



Map 15: City of Escanaba, Soils



As previously mentioned, each of the two primary watersheds near Escanaba contains a number of tributaries. Each of the rivers and tributaries converge and empty into Little Bay de Noc of Lake Michigan. The Escanaba River is one of the Upper Peninsula's longest rivers. The Escanaba River contains hydroelectric dams owned and operated by the Upper Peninsula Power Company (UPPCO). The river supports a variety of duck species, brook, brown, and rainbow trout along with a variety of warm water species such as northern pike, smallmouth bass, and walleye.

Much of the coastal zone that exists within Escanaba has been significantly altered and developed. Coastal zones throughout the Great Lakes have been affected by invasive species, in particular phragmites, which crowd out native plant species, degrade wildlife habitat, and indicate ecosystem stress. The City, Delta County Conservation District, and environmental groups have been aggressively mitigating this problem through chemical treatments to affected areas and land owner education.

Wetlands

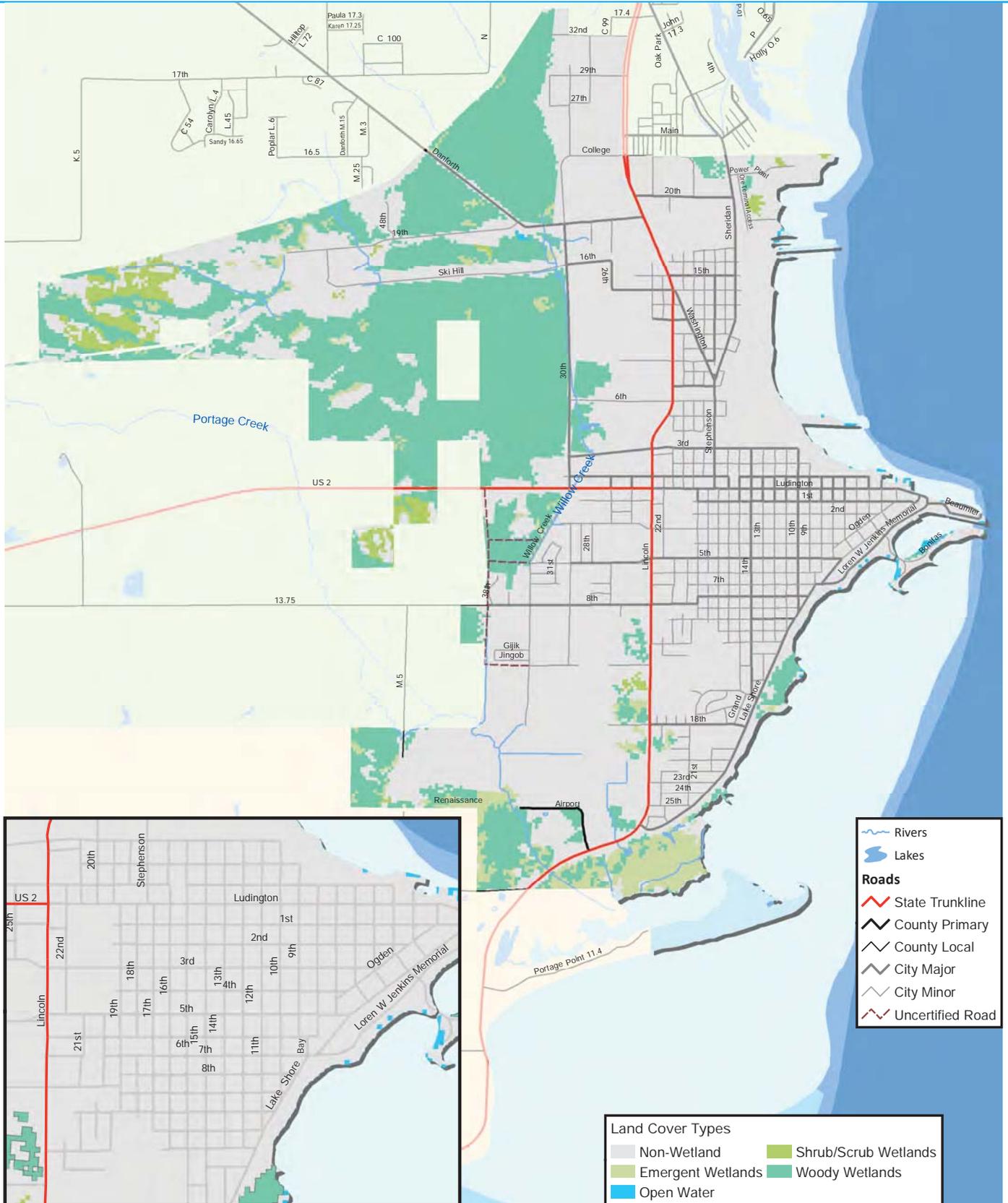
Wetlands make up a third of the land cover within Escanaba. They are defined by the US Fish and Wildlife Service as:

“...lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominately hydrophytes; (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of the year.”

The quantity and types of wetlands in the City are described in Table 6-1 and Map 16. Wetlands are one of the most biologically productive ecosystems in the world, and therefore perform a variety of functions. They provide fish and wildlife habitat, control storm water and flooding, improve water quality, provide water recharge areas, aid in shoreline erosion control, nutrient recycling and retention, and support a diverse biological ecosystem. Protection of these significant ecosystems falls under the Goemaere-Anderson Wetlands Act of 1979. The State of Michigan oversees regulation and permitting of wetland uses.



Images 6-1: Portage Point Marsh.



Map 16: City of Escanaba, Wetland Areas



Wetlands are prevalent throughout the western quarter of Escanaba, totaling 2,697.8 acres, or 33% of total city acreage. Significant ditching and draining of wetlands of the west side wetlands in the past has facilitated Glossy Buckthorn invasion and the degradation of ecosystem services, including flood mitigation. The west side wetlands can be accessed through the N. 30th Street ski trail.

The most significant wetland area in the city is Portage Point Marsh, located in the south-east portion of the city along Lake Michigan where Portage Creek empties into Portage Bay. Portage Marsh is a 600 acre wetland complex that includes Portage Bay and has a variety of wetland habitats to support an abundance of wildlife. The area is easily accessible by foot as there is a trail through the area for hiking and wildlife viewing.

Type	Acres	Percent
Emergent Wetlands	265.5	3.2
Shrub/Scrub Wetlands	146.8	1.8
Woody Wetlands	2,201.6	27.2
Total Wetland Areas	2,613.9	32.4
Non-Wetland Areas	5,463.6	67.6
Total	8,077.5	100

Source: NLCD, 2011



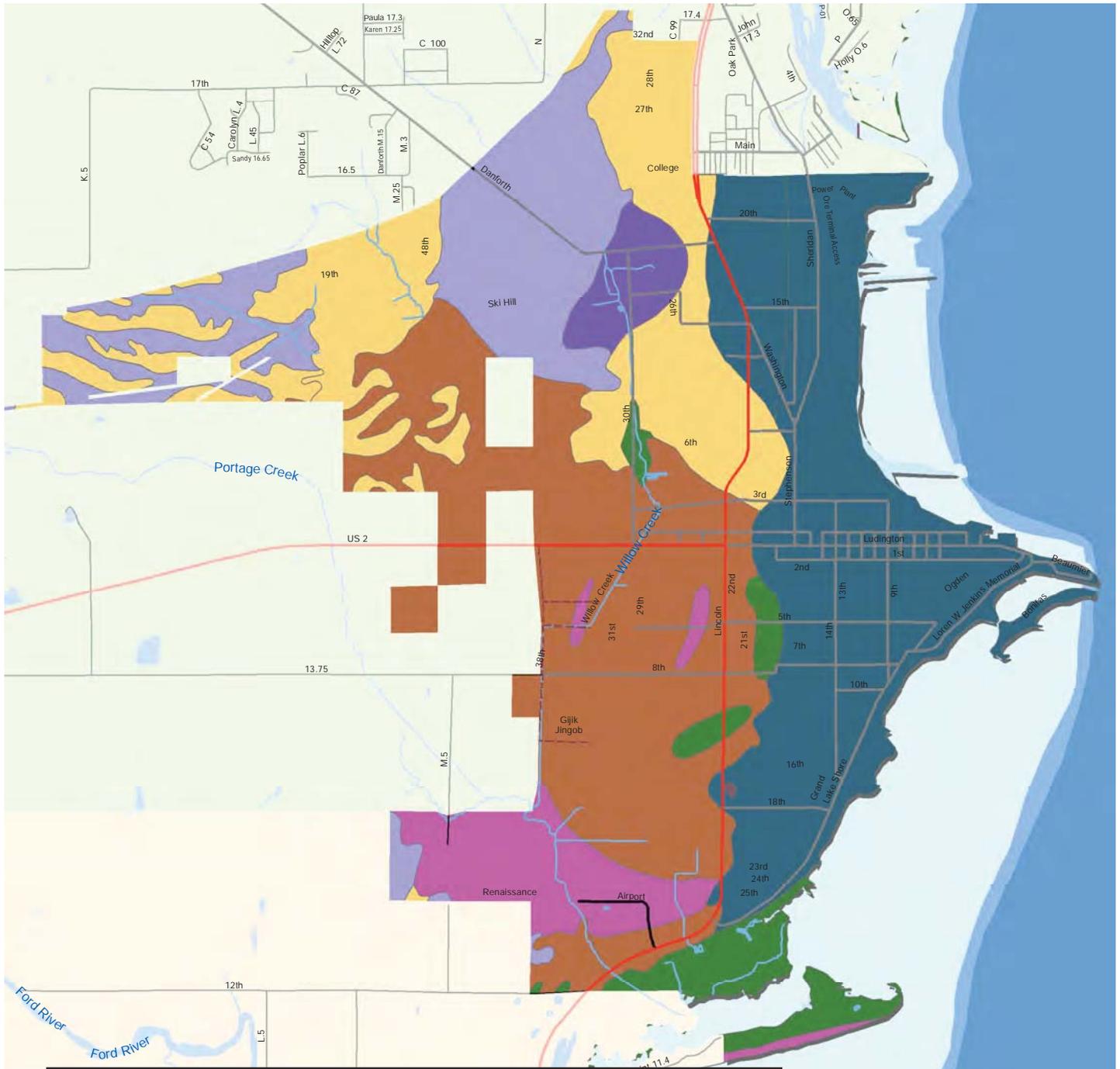
Image 6-2: Trail through Portage Point Marsh.

6.5 Forested Areas

The wooded areas of Escanaba are representative of the northern lowland climates along the Lake Michigan shoreline. Historically, the area was predominantly tall coniferous forest. Following European settlement, the region changed dramatically with primary impact evident in the woodland landscape. Heavy logging operations led to the reduction in red and white pine as well as the white cedar and the proliferation of the European Buckthorn and other invasive species. Intensive logging activities promoted the growth of more upland conifers, as well as hardwood stands.

The existing woodland landscape consists primarily of coniferous and deciduous trees that thrive on the low-lying poorly drained soils; however, the wooded areas of the city have been degraded by logging and invasive species. Stands of white cedars are still predominant throughout the region, interrupted by beach ridges of sandy well-drained soils supporting populations of white pine, hemlock, and spruce. Higher, better drained areas of lacustrine or sandy soils support populations of hardwoods, such as sugar maple and beech. The majority of the undeveloped shoreline of Escanaba is composed of a marshy habitat of native grasses, but has been affected by the proliferation of phragmites. The inland wooded areas beyond the city limits are primarily composed of upland conifers with more intermittent hardwood populations scattered with jack pine stand throughout.

Maps 17 and 18 illustrate the forest and other land cover types that were present in the area before European settlement.



Land Cover Types	
ASPEN-BIRCH FOREST	MIXED HARDWOOD SWAMP
BEECH-SUGAR MAPLE-HEMLOCK FOREST	MUSKEG/BOG
BLACK ASH SWAMP	PINE BARRENS
CEDAR SWAMP	SAND DUNE
EXPOSED BEDROCK	SHRUB SWAMP/EMERGENT MARSH
HEMLOCK-WHITE PINE FOREST	SPRUCE-FIR-CEDAR FOREST
HEMLOCK-YELLOW BIRCH FOREST	SUGAR MAPLE-HEMLOCK FOREST
JACK PINE-RED PINE FOREST	WET PRAIRIE
LAKE/RIVER	WHITE PINE-RED PINE FOREST
MIXED CONIFER SWAMP	

	Rivers
	Lakes
Roads	
	State Trunkline
	County Primary
	County Local
	City Major
	Uncertified Road

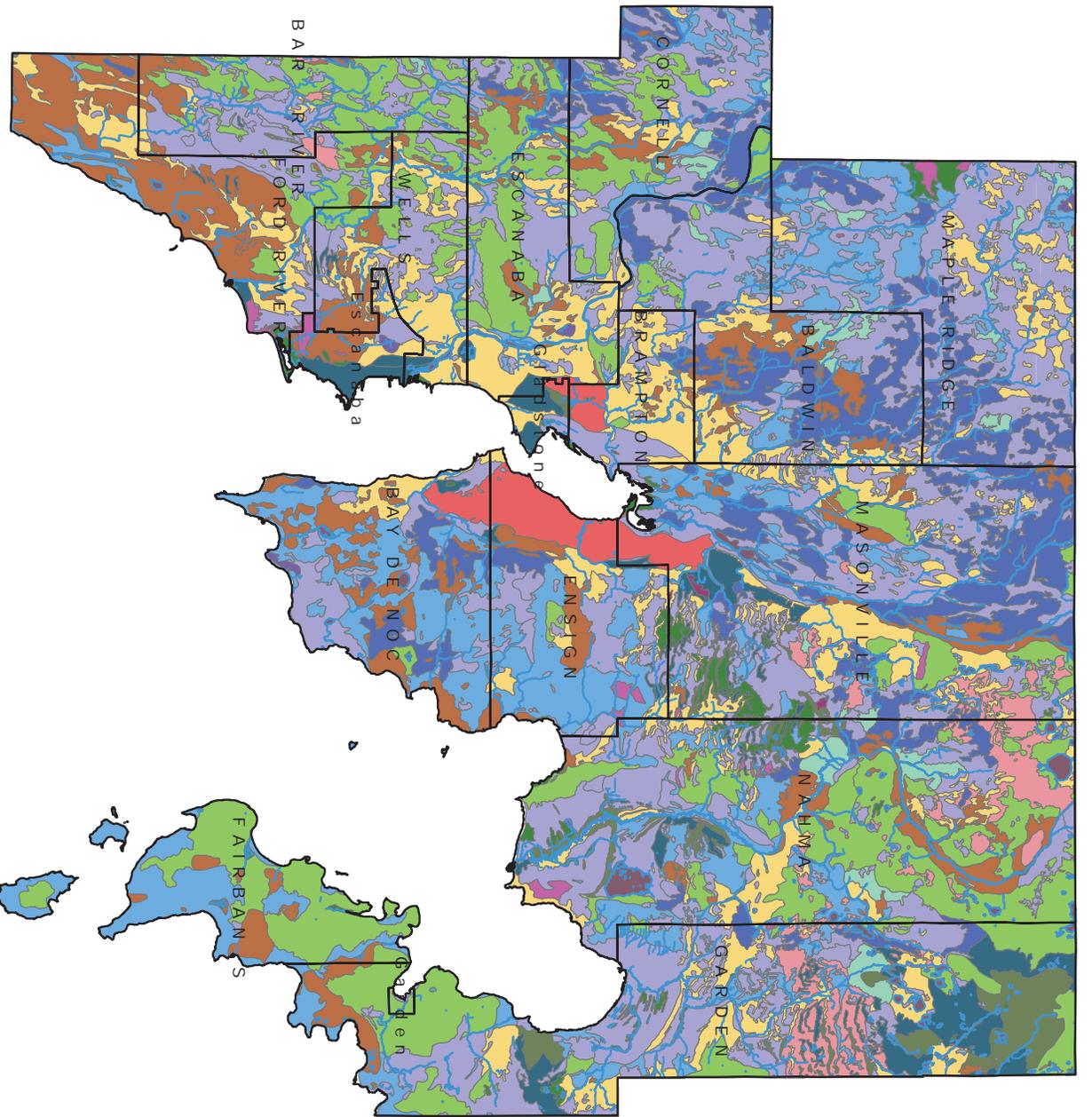
1 in = 3/4 mile
 0 0.75 1.5 Miles



Data Sources: State of MI



Map 17: City of Escanaba, Historic Land Cover, Circa 1800



Land Cover Types

	ASPEN-BIRCH FOREST
	BEECH-SUGAR MAPLE-HEMLOCK FOREST
	BLACK ASH SWAMP
	CEDAR SWAMP
	EXPOSED BEDROCK
	HEMLOCK-WHITE PINE FOREST
	HEMLOCK-YELLOW BIRCH FOREST
	JACK PINE-RED PINE FOREST
	LAKE/RIVER
	MIXED CONIFER SWAMP
	MIXED HARDWOOD SWAMP
	MUSKEG/BOG
	PINE BARENS
	SAND DUNE
	SHRUB SWAMP/EMERGENT MARSH
	SPRUCE-FIR-CEDAR FOREST
	SUGAR MAPLE-HEMLOCK FOREST
	WET PRAIRIE
	WHITE PINE-RED PINE FOREST



Data Sources: State of MI DTMB, 2016

Map 18: Delta County, Historic Land Cover, Circa 1800



6.6 Wildlife

Of the 450 species of birds that have occurred in Michigan just over 400 have been recorded in the Upper Peninsula and nearly 300 species in Delta County. The large inland seas of the Great Lakes present a formidable challenge to birds navigating across the continent and as a result many are forced to concentrate along the shoreline during migration. These stopover areas can provide critical resources for these birds to continue their long journey. Escanaba's coastal areas provide an abundance of emergent insects required to fuel the migration and Ludington Park, Veteran's Park, and other City-owned lots along the waterfront provide habitat for migrating and resident birds. In addition to well-known species such as Bald Eagle and Sandhill Crane the City's forests and marshes support a diversity of flycatchers, orioles, warblers, sparrows, bitterns, terns, and ducks. Additionally, Escanaba is one of last places in the Upper Peninsula that still supports breeding Purple Martins.

Since 2012, the Escanaba Migratory Bird Enhancement Initiative (EMBEI) partnership has received community support and grant money to enhance bird habitat in the City through the planting of native species, control of invasive species, and the placement of nest boxes for cavity nesting birds.

In addition to an abundance of birds, a variety of amphibians can be found in shoreline areas, including leopard frogs, American toads, gray tree frogs and the eastern garter and fox snakes. Mammal species in the city include deer, raccoons, skunks, rabbits, muskrat, mink, and opossum.

6.7 Issues and Opportunities

Issues:

The City of Escanaba, along with other communities around Little Bay de Noc should continue work to maintain the water and habitat quality of the Bay and migratory fly-way.

Invasive species are degrading the quality of local ecosystems and will be an ongoing problem to be addressed. The City should adopt a formal management program to mitigate the negative impact of invasives.

The City has actively pursued opportunities with the Environmental Protection Agency to obtain funding to further study the quality and management of wetlands within the community and along their jurisdictional boundaries. Furthermore, in 2008 a wetland study was completed that identified wetlands, evaluated their hydrologic and biologic functions, and determined the biodiversity of the wetland. The study included the development of GIS data layers and the identification of potential restoration sites. Although the City does not have a formal management plan, the City will continue to evaluate the wetland areas to ensure the protection and management of these vulnerable and valuable resources.

Many of City's trees are nearing the end of their natural lives and others are affected by blight. The City should pro-actively develop an urban forestry plan to ensure that the future generations will enjoy the many benefits provided by street trees and green parks.

Opportunities:

The abundance of natural resources throughout Escanaba contributes to the quality of life and aesthetic character of the community. The utilization and preservation of these scenic resources is a primary focus of enhancing the high quality of life residents and visitors experience. A year-round non-motorized trail development could be developed to connect people to places of natural beauty.

Little Bay de Noc and the Escanaba River are two water resources that truly enhance the quality of life for the residents of Escanaba. Recreation activities common within each of these features include boating, fishing, sight-seeing, canoing, kayaking, and other water sports. The existence of both the Escanaba River and Little Bay de Noc provides the City of Escanaba with a great potential to enhance the community and local economy through the utilization of the waterfront and water recreation opportunities plentiful throughout.

Bay College is pursuing the development of a sustainability education center. This could be an opportunity to educate Escanaba residents about environmental science and preservation.

Recreational and natural areas are community assets that support tourism. Better parking, signage, and marketing of these resources could boost the local tourism industry.



Image 6-3: Aronson Island municipal beach. Source: Mish Watersports.

Chapter 7: Land Use and Zoning

Introduction

The industrial history of the City and its surroundings continue to affect development in Escanaba today through existing land use patterns, roads, structures, and environmental contamination that may limit use of land today. In the early history of the City, many heavy industries sprung up along the waterfront, much of which is still in industrial use today. The presence of railways and other industrial infrastructure along the waterfront impedes the development of other types of uses.

The general land use patterns include dense residential areas located north and south of downtown, big box retail in the area along Lincoln Rd., and a downtown retail district along Ludington Street. The City also has two waterfront parks that are situated in densely populated neighborhoods.



Image 7-1: Downtown North Shore Area.

7.1 Factors Affecting Land Use

The decision process regarding land use can begin almost anywhere - with a home buyer, a developer, a land speculator, a business owner, or a government unit.

The home buyer or potential business owner tends to base decisions on location, access, quality of surroundings, infrastructure, and personal satisfaction, among others factors.

Owners of businesses make decisions to start, expand, or close their operations based on economic feasibility, which depends on a variety of factors. Many of these factors, such as supply and demand for the good or service produced, are beyond local control, while other factors, such as the availability of sites or adequacy of transportation, can be affected by local decisions.

Decisions made at these levels are generally oriented towards a person's or organization's self-interest, and generally do not consider the effects of development on surrounding land uses, utilities, services, etc. This decision-making process can potentially result in discontinuous or incompatible development, since it does not necessarily take into consideration the overall development pattern for a community.

It is then left primarily to local units of government, to consider the overall compatibility and appropriateness of various land uses. Various laws and regulation have been enacted governing land use and development, and provide tools for federal, state, and local governments to use in dealing with land use issues.

The federal government exercises a number of responsibilities that affect land use through various loan and grant programs for community facilities, water, and wastewater systems, housing, economic development, and planning. Federal regulations also address environmental concerns, such as air quality, drinking water standards, etc. Although these programs and regulations do not usually directly affect land use and development, they have a significant indirect effect. For example, a community which lacks

sufficient sewage disposal capacity to serve industrial uses may be able to obtain federal funding to assist with expansion of its sewage treatment plant, which in turn may lead to industrial development.

The role of the state has traditionally been limited to providing legislation for local units of government to regulate growth and development through planning and zoning. The State of Michigan also regulates the land use and development of wetlands, floodplains, coastal areas, and other areas of environmental concern. This can have a direct affect on local land use. The state also enforces standards for municipal water systems and wastewater treatment plants which are at least as strict as federal standards, which can affect a community's ability to provide such services.

Local government can probably exert the most effective influence on land use changes through zoning ordinances, subdivision regulations, building codes, and public investment in roads, water and sewer systems, parks, etc. Local planning efforts which seek to define the most desirable and appropriate uses for the various parts of a community, and anticipate and prepare for growth, can help guide future land use decisions.

Other factors affecting land use include the existing transportation system, taxation, land values, natural features, changing technology, and market factors. Changes in lifestyles, family size, shopping habits, and consumer attitudes, also affect land use decisions.

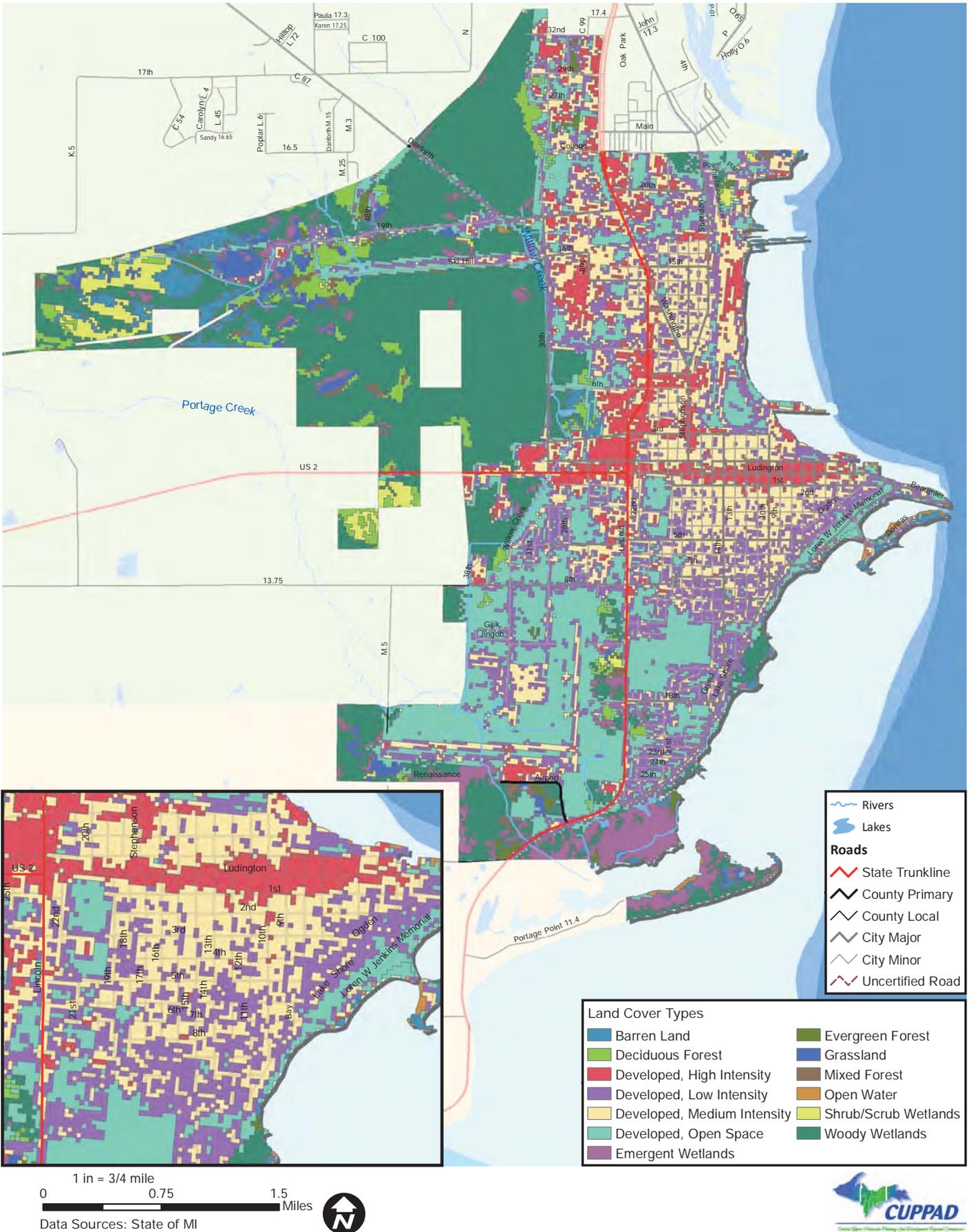
The transportation system, which serves a community, determines how quickly and easily, and at what cost, raw materials and finished goods can be shipped in and out, a crucial factor to many industries. The highway network in the region allows many people to live in rural areas and commute to jobs and shopping in more urbanized areas. This mobility has helped to facilitate the development of strip commercial areas and urban sprawl that spurs the conversion of forest and agricultural areas into development.

Taxation and land values play a part in many land use decisions. Families may move from urban areas because they feel that they are willing to trade off lower taxes or user fees for the lack of municipal services and increased distance from employment, shopping, and schools. Land values in rural areas are also generally lower and thus more attractive to residents. Commercial and industrial enterprises are generally less willing to forgo municipal services, such as water and sewer, and also tend to locate in urban, densely populated areas. However, tax rates and land values may influence a company's decision to locate in one community versus another.

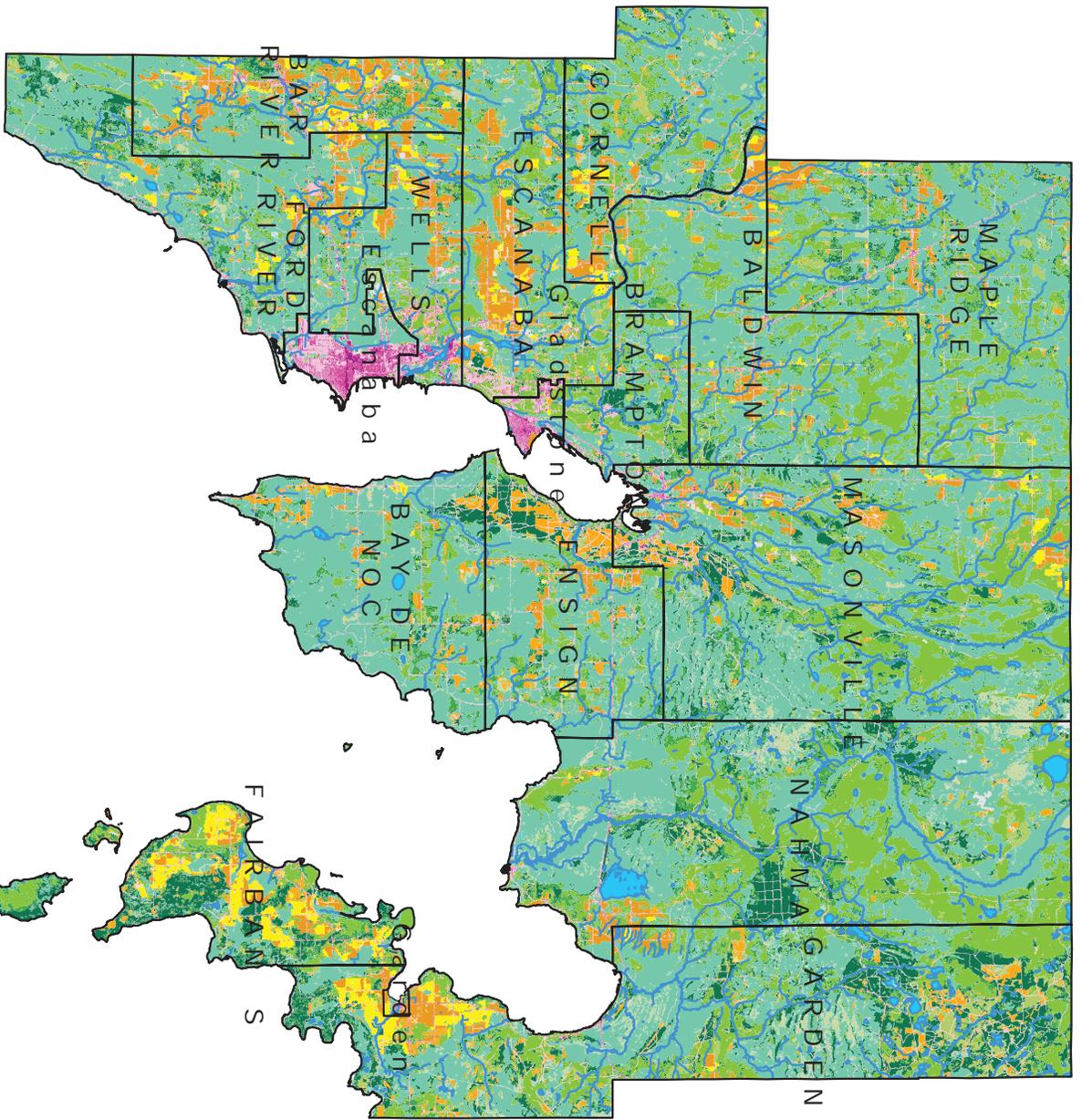
As a result of technologies and the internet, some businesses and industries are able to locate in rural areas which would have previously been considered isolated. In many cases, the quality of life associated with these rural locations is an additional attraction.

7.2 Current Land Use Inventory

This section will examine the current land use patterns for the City of Escanaba and Delta County, based on the 2011 National Land Cover Database (NLCD). The inventory describes land uses and covers according to 16 classifications. The land cover types in the City and County can be found on Maps 19 and 20. A breakdown of the land uses in the City is covered in Table 7-1.

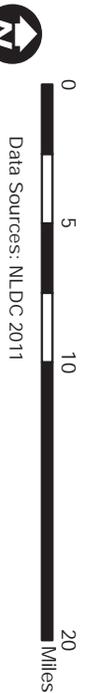


Map 19: City of Escanaba, Land Cover, 2011



Land Cover Types

	Barren Land
	Cultivated Crops
	Deciduous Forest
	Developed, High Intensity
	Developed, Low Intensity
	Developed, Medium Intensity
	Developed, Open Space
	Emergent Wetlands
	Evergreen Forest
	Grassland
	Mixed Forest
	Open Water
	Pasture/Hay
	Shrub/Scrub Wetlands
	Woody Wetlands



Map 20: Delta County, Land Cover, 2011



Table 1: Land Use Categories and Percentages			
Category	Definition	Acres	%
Barren Land	Areas of rock, sand, or clay with less than 15% vegetation	204.0	3
Deciduous Forest	Forested area (>20%) with more than 75% deciduous trees	251.2	3
Evergreen Forest	Forested area (>20%) with more than 75% evergreens	50.2	0.6
Mixed Forest	Forested area (>20%) where neither evergreen or deciduous are more than 75% of tree cover	50.7	0.6
Developed High Intensity	Impervious surfaces make up 80-100% of total	566.7	7
Developed Medium Intensity	Impervious surfaces make up 50-79% of total	1,417.6	17
Developed Low Intensity	Impervious surfaces make up 20-49%	1,295.2	16
Developed Open Space	Impervious surfaces make up less than 20% of total cover	1,490.4	18
Emergent Wetlands	Wetlands characterized by grasslike plants that stand above the water or frond surface. Includes marshes and meadows.	313.0	4
Open Water	Areas of open water, less than 25% cover of vegetation or soil	20.9	0.2
Scrub Shrub Wetlands	Dominated by woody vegetation less than 20' tall, includes swamps and bogs	146.8	2
Wooded Wetlands	Areas dominated by woody vegetation over 20' tall	2,238.0	27
Grassland	Areas where grasses make up 80% of vegetation	143.7	2
Total		8,188.6	100

Source: National Land Cover Database, 2011

7.3 Public and Quasi-Public Land Use

Public land uses in Escanaba include parks, public buildings, schools, and tracts of publicly owned lands. Many of these uses are discussed in more detail in other chapters of this document. However, the land use considerations associated with these uses will be discussed here.

The City owns or leases and maintains several park and recreation sites, including Ludington Park, Veteran’s Park and several smaller parks throughout the City. These areas are described in detail in Chapter 9. There are also seven schools in the City, Delta County ISD, Escanaba Senior High School, Escanaba Junior High School, Escanaba Upper Elementary, Lemmer Elementary, Soo Hill Elementary and Webster Elementary. Bay de Noc Community College is also located in Escanaba.

Other public land uses in Escanaba include public buildings such as City Hall. Public buildings are described in Chapter 8.

Examples of quasi-public uses include churches, golf courses, and similar facilities that are owned by private enterprise, but are open to the public. These uses generate increased traffic on a seasonal, occasional, or intermittent basis, by providing facilities and services which meet the needs of local residents and contribute to the quality of life in the community. The presence of quasi-public facilities such as golf courses can also affect property values.

Churches are located throughout the City as well as in nearby communities. Escanaba residents attend churches outside the City, while churches in the City draw from the surrounding areas. In addition to serving as places of worship, churches also serve as community gathering places, for social events and local meetings. The establishment or closure of churches can affect traffic patterns as well as impact the character and cohesiveness of a community.

7.4 Brownfield and Contaminated Sites

Brownfields are sites that are difficult to develop due to contamination and can also be those that are blighted or functionally obsolete. A brownfield could be a former industrial site, a gas station, or an abandoned building. The Escanaba Brownfield Authority has developed an inventory of brownfield sites in the City in order to help facilitate redevelopment. Loans or grants are available from the Michigan Department of Environmental Quality to help fund brownfield redevelopment.

The Michigan Department of Environmental Quality is required by state law to identify, evaluate, and rank all sites of environmental contamination in Michigan. Part 201 of Public Act 451 of 1994 requires that the DEQ maintain lists of contaminated sites and identify who is responsible for the site.

From a land use stand point, the presence of environmental contamination represents a constraint on future development, as well as a threat to human health and safety. In addition to affecting a specific site, some contaminants can enter the groundwater and cause more widespread problems, such as well water contamination. It is desirable to identify and remediate contaminated sites in a timely manner, in order that potential hazards and land use constraints be removed or minimized.

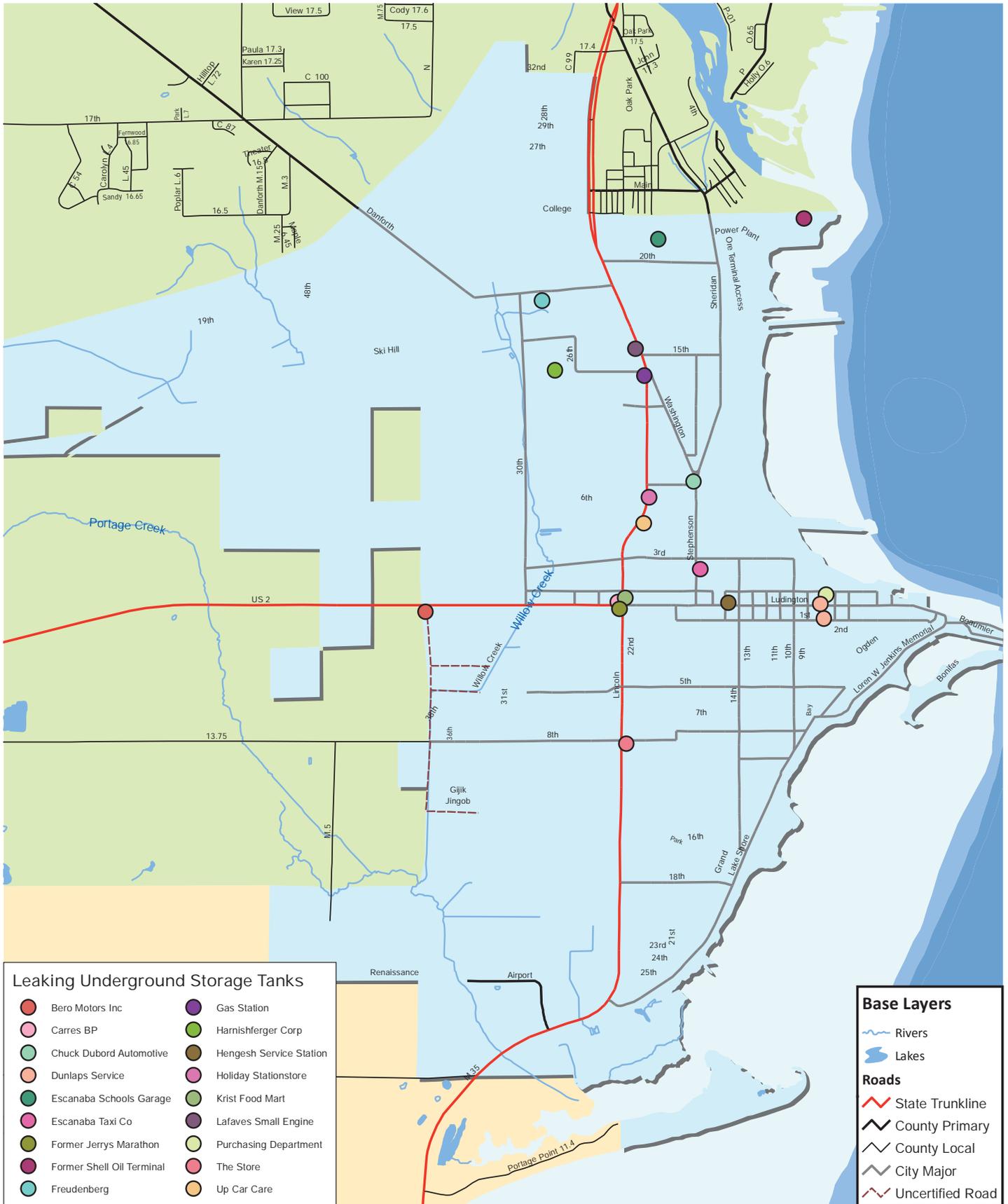
In terms of future land use decisions, it is important that decision makers are aware of the potential for certain types of land use to cause environmental contamination. Most of the sites of environmental contamination identified in Delta County are the result of past land use practices, and this illustrates even when legal and accepted land uses are undertaken, the possibility of future impacts exists.

Leaking underground fuel storage tanks have become a concern throughout the country in recent years. Many fuel tanks which were in compliance with all installation guidelines at the time they were installed have deteriorated and allowed fuel to contaminate the surrounding soil. New guidelines for installing underground fuel tanks have been implemented, and efforts are underway to identify and clean up leaking tanks.

Map 21 on the next page displays the locations of all open or active leaking underground storage tanks in the city as reported by the Michigan Department of Environmental Quality in June, 2015. Sites with open or closed tanks may have restrictions on what types of future development may occur at that location.

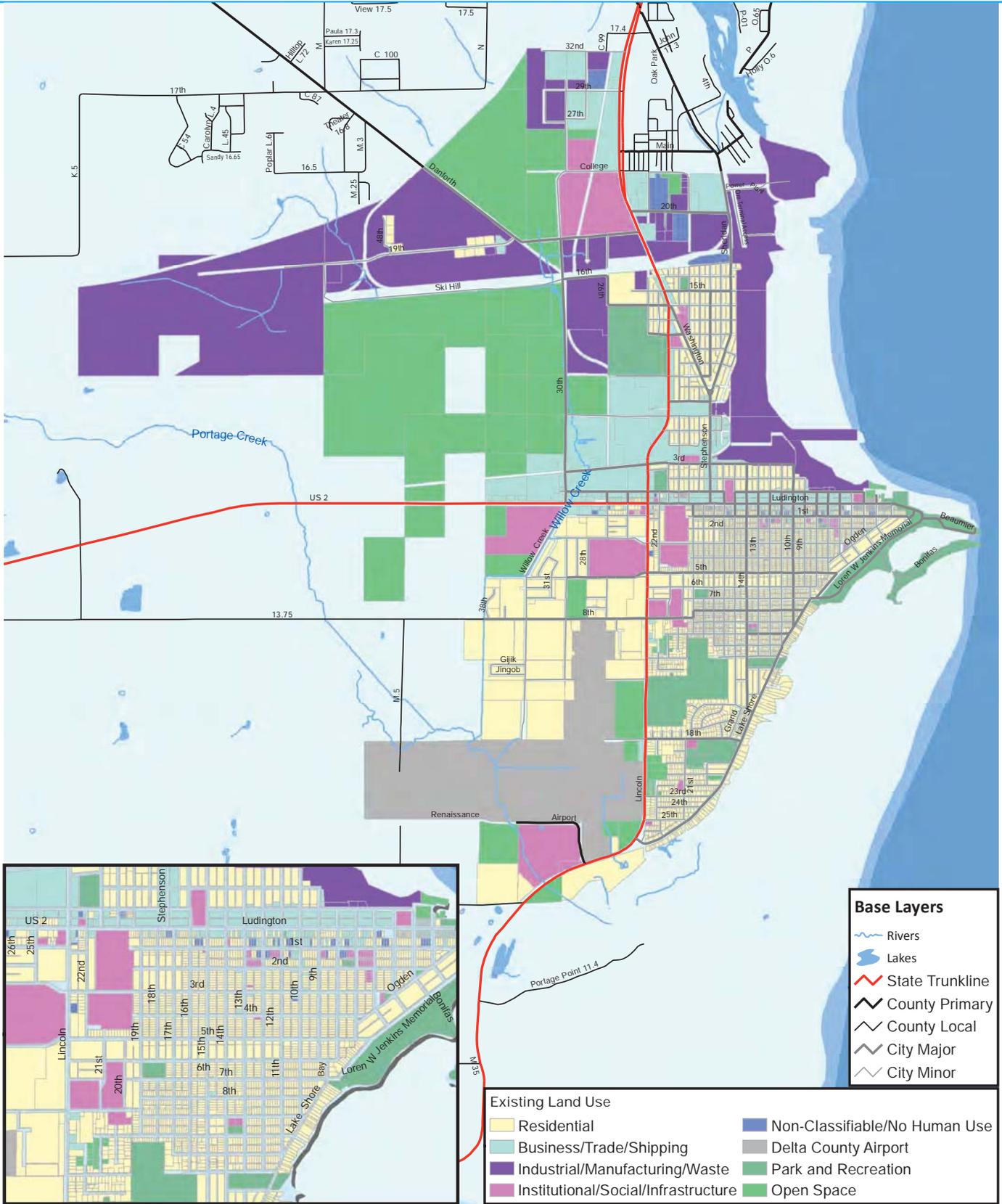
7.5 Existing Zoning

The distribution of land uses throughout the City is the result of a number of factors and illustrated in Maps 22 and 23. Some of these factors include, but are not limited to, proximity to lakeshore, transportation routes, location of regional shopping centers, and zoning. As the City has started to rely less on shipping and industry, a number of changes have occurred in the land use patterns allowing for new uses to be developed and planned for. Table 7-2 defines each of the current zoning districts.



Map 21: City of Escanaba, Leaking Underground Storage Tanks





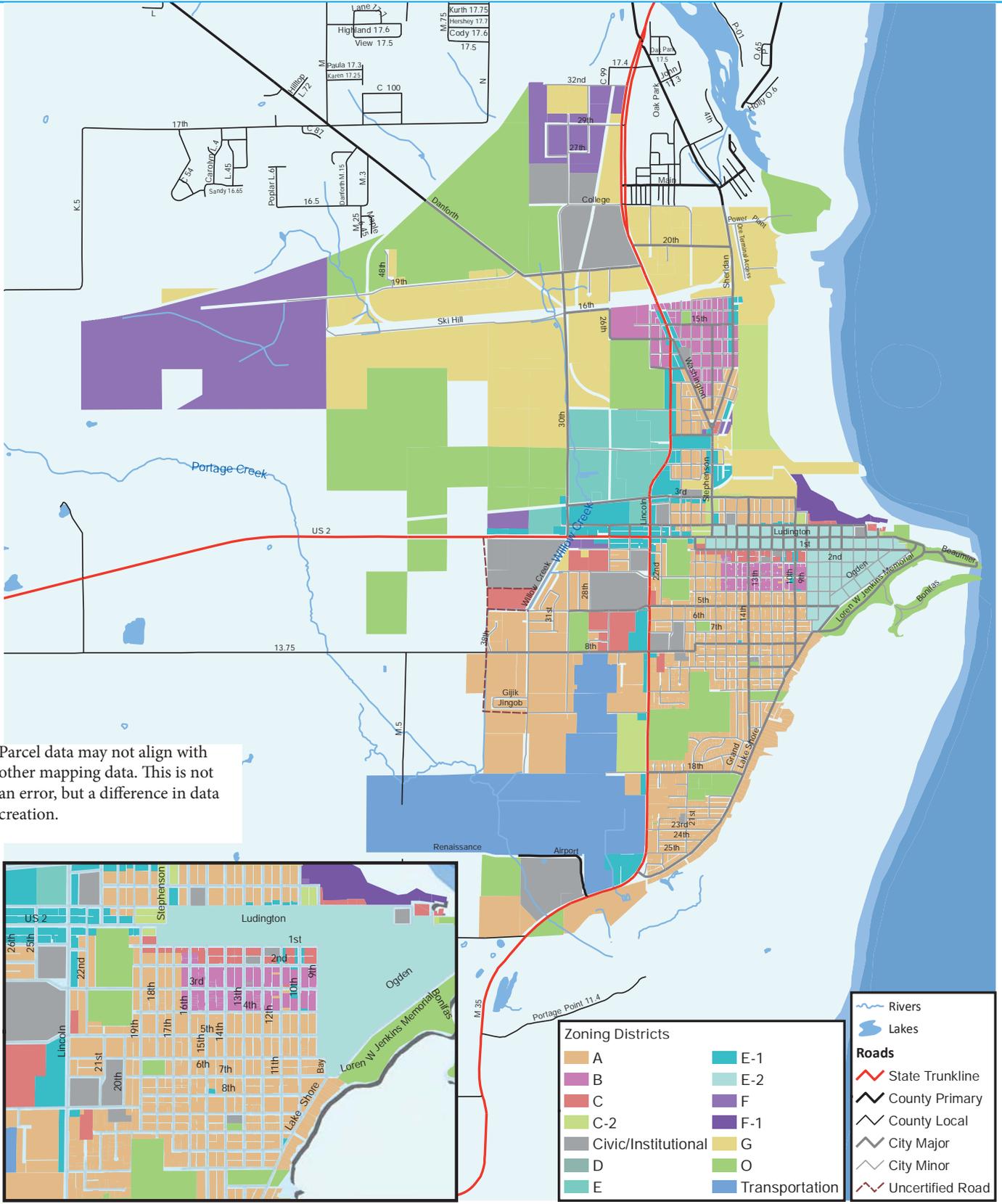
1 in = 3/4 mile
 0 0.75 1.5 Miles



Data Sources: State of MI, City of Escanaba



Map 22: City of Escanaba, Existing Land Uses



Data Sources: State of MI, City of Escanaba



Map 23: City of Escanaba, 2014 Zoning

a e			
on ng Classifications	eres	ercent	r nc a ses
es dence			One-family detached dwelling, accessory buildings, gardens, parks and playground, special care facilities, home occupations, bed and breakfasts, adult foster care
es dence			Two-family detached dwellings, one-family dwellings, accessory buildings, nursery schools, gardens, parks and playgrounds, fire and police stations, special care facilities, home occupations, bed and breakfasts, adult foster care
es dence			Multi-family dwellings, two-family detached dwellings, one-family dwellings, accessory buildings, nursery schools, churches, private schools, gardens, parks and playgrounds, fire and police stations, special care facilities, home occupations, bed and breakfasts, adult foster care
es dent a anned nt De e o ent			Town-houses and condos, single, double and multi-family units, parks, trails, non-commercial clubs, accessory structure, child care centers
Loca us ness D str ct D			Professional office, grocery store, bakeries, barber shop, florist, clinics, dry cleaning, funeral homes, real estate office, artist studios
o erc a D str ct			Professional office, grocery store, bakeries, barber shop, florist, clinics, dry cleaning, funeral homes, real estate office, artist studios, wholesale business storage, bank, cold storage, dyeing plant, ship terminal, printing plant, broadcasting station, churches, schools, hospital, community building, amusement, auto sales, rentals and repair, hotels, car washes, post offices, restaurants, labs, boat sales, government buildings
anned o erc a De e o ent D str ct			Professional office, grocery store, bakeries, barber shop, florist, clinics, real estate office, artist studios, art stores, banks, book stores, branch post office, camera store, drug store, gift shop, hardware store, hobby shop, jewelry store, liquor stores, restaurants, clothing stores multi family apartments, gym
S ec a anned D str ct			Churches, schools, parks, special care facilities, bed and breakfast, multi and two-family dwellings, financial offices, state and federal offices, funeral homes, assisted living
L g t Manufactur ng D str cts			Banks, office, studio, barbershop, retail, wholesale, theater, funeral home, dry cleaning, bus terminal, printing plant, police station, community garage, motels, hotels, churches, convention center, hospital, clinic, sales yards, light manufacturing, amusement, armories, auto rental, sales and repair, car washes, labs, home manufacturer, outdoor seasonal sales, post offices, research facility, equipment rental, government buildings, indoor recreation facility, boat sales, vocational schools
Industr a ar D str ct			Manufacturing, clothing manufacturing, airplane or boat assembly, government buildings, research facility, wholesale business storage, cold storage, dyeing plant, printing plant, warehousing, vocational schools, broadcasting, office complex, showrooms, labs, indoor recreation, locksmith
ea Manufactur ng D str ct			Manufacturing, power plant, gas bottling or distribution, sewage treatment, fish processing, scrap yard, bus terminal, crematory, dry cleaning, funeral homes, wholesale business storage, cold storage, dyeing plant, ship terminal, printing plant, restaurants
en S ace D str ct			Airport clear zones, golf courses, athletic fields, marinas, boat houses, outdoor pool, boat liveries, parks, cultural facilities, playgrounds, recreational facilities
c Inst tut ona			*This district is included on the City's zoning map but is not a district defined in the Zoning Ordinance
rans ortat on			*This district is included on the City's zoning map, but is not a district defined in the Zoning Ordinance
ota			

While zoning has played a role in how communities organize specific land uses, it does not necessarily represent the actual use that exists in a particular area. Under the current zoning, (highlighted in Map 19), districts are broken into twelve classifications; single-family residential, two family residential, multiple-family residential, local business, commercial, light manufacturing, heavy manufacturing, planned commercial, and industrial park. A review of Maps 22 and 23 reveals the spatial patterns of these distinct zoning districts and begins to reveal the relationship of zoning and land use distribution. The northern half of the City constitutes the majority of the heavy manufacturing district including the area known as the north shore. The primary area of light manufacturing is located at the Delta County Airport site. Commercial and Local Business

7.6 Issues and Opportunities

Issues:

Although much of the community is built up, there are high-quality natural areas, such as wetlands and forest areas, that must be preserved to maintain the quality of the City. A wetland management plan should be developed to guide preservation, mitigation, and recreational use of these areas.

The industrial legacy of the community continues to affect the potential for development in the City. Although there has been significant public support for waterfront redevelopment in previous plans, much of this area is privately owned and used for industrial purposes.

Opportunities:

Land use in the City has been long regulated by Euclidean zoning, which has resulted in some undesirable development patterns in the community. The lack of integration between these uses results in the development of homogeneous districts with limited pedestrian connectivity. To foster better urban design land use regulations should enable greater flexibility in uses and stricter guidelines on building form. This could be achieved through performance standards, and/or the development of zones that are regulated primarily by form. These changes would help the City in achieving the community vision.

A form based code should be considered for the downtown, encompassing Ludington Street from 1st Street to 26th Street between 1st Avenue North and 1st Avenue South, and the North Shore area. Form based codes primarily regulate the physical form of buildings and land use is a secondary concern. Form based codes are a tool to create more walkable, vibrant communities. Form based codes differ from conventional zoning by including building form standards and public space standards and result in more predictable developments and a stronger sense of place. Conventional zoning regulates and segregates land by use. The large setbacks and parking standards included in conventional zoning ordinances results in segregated land uses and auto-oriented development.

In order to ensure the preservation of wetlands, brownfield areas may also need to be restored to allow for new development. Some areas along the lakeshore have been contaminated through the intense industrial uses in the past. In order to determine a detailed location of these sites, it is recommended that these areas be carefully evaluated. Concentrating efforts on the remediation of these sites will present the City with opportunities to develop some of the more desirable land along the lakeshore. Furthermore, by opening brownfield areas within the heart of the City, demand for buildable land along the major thoroughfares will decrease limiting sprawling commercial development. An alternative use for brownfields, when feasible, could be the development of new park and recreation areas.

Chapter 8: Community Facilities

Introduction

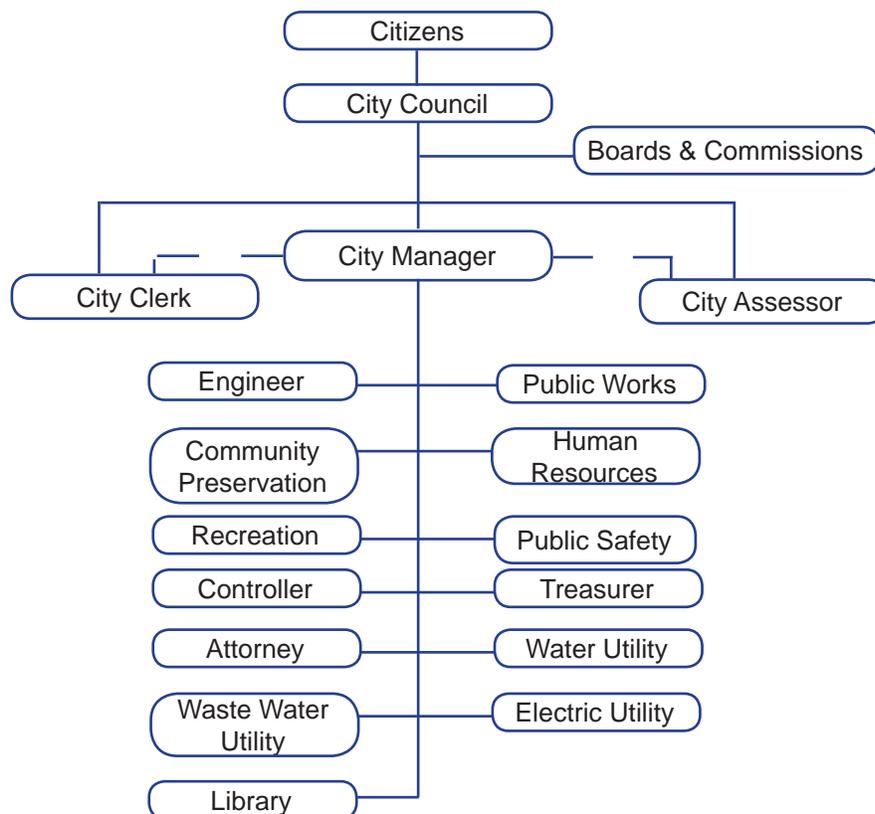
The services and facilities provided by local government are often vital elements in the community's progress and well-being. Services include police and fire protection, municipal water and wastewater systems, and recreation programs. Community facilities include libraries, parks, cemeteries, schools, and infrastructure networks.

As a part of the master planning process, the City's public and community facilities were reviewed and evaluated as to their present condition and adequacy to meet the present and future needs of the community.

8.1 Government Organization

City departments, boards and commissions include: a planning commission, zoning board of appeals, and a recreation advisory board. These bodies exist as appointed bodies that make recommendations to the City Council and City Manager. A complete list of City Boards and Commissions can be found on page 56.

The City employs around 115 full time staff and 22 part-time people. The Parks and Recreation Department and the Department of Public Works are responsible for the maintenance and improvement of over 420 acres of land. The diagram below describes the City of Escanaba's organizational chart.



a e : oards and o ss ons	
City Council	Historic District Commission
Board of Appeals	Housing Commission
Board of Equalization and Review	Liquor License Review Board
Board of Library Trustees	Loan Administration Board
Brownfield Redevelopment Authority	Local City Officers Compensation Commission
Citizen's Environmental Advisory Committee	Planning Commission
Downtown Development Authority	Public Safety Retirement Board
Electrical Advisory Committee	Recreation Advisory Board
Escanaba Building Authority	Traffic Safety Advisory Committee
Harbor Advisory Committee	Wells Sports Complex Authority

8.2 Community Facilities and Services

The locations of City-owned lands and major facilities in the City can be found on Maps 24 and 25.

City Hall

The present Escanaba City Hall building opened in 1995 and is located at 410 Ludington Street. This location houses many offices including those of the manager, clerk, treasurer, community development and planning, human resources, assessor, and public utilities. The Escanaba Public Library was incorporated into the City Hall building and opened in October of 1995.

The Escanaba Public Library is located on the north side of the City Hall building. The library has an extensive children's section as well as children's programming. In addition, the library has notable collections of historical resources about the State of Michigan, digital books, and a genealogy collection. Prior to 1995 the library was located on South Seventh Street in a 1902 neo-classical building donated to the City by Andrew Carnegie and later sold to a local resident.

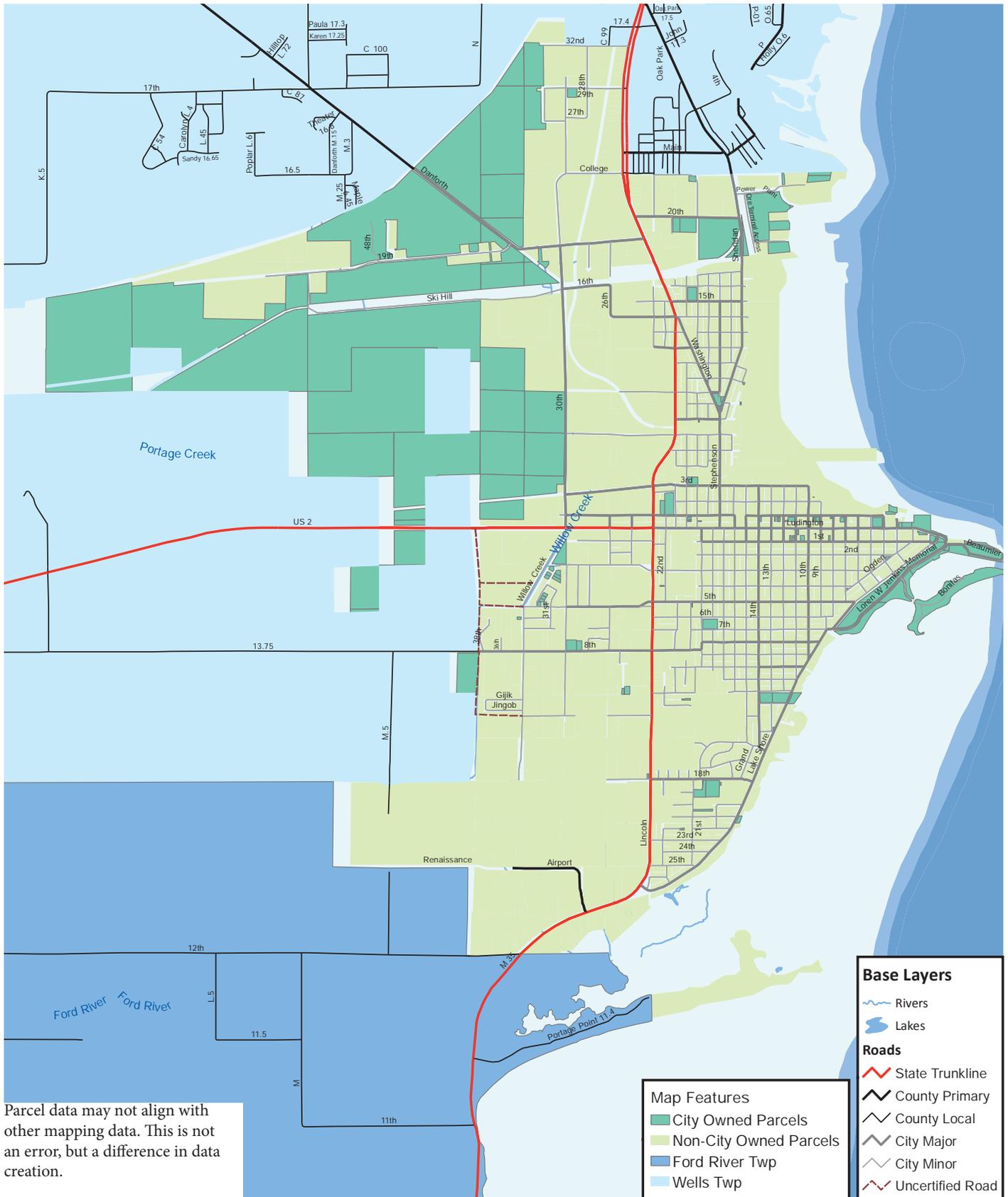


Image 8-1: The children's area of the Escanaba library.

Public Works

The Public Works facility located at 1711 Sheridan Road is responsible for a number of services. Some of the responsibilities include the maintenance of street lights, storm sewers, parking lots, and City parks. Additionally, the Public Works Department facilitates yard waste disposal and snow and ice removal.

In 2016, the Public Works Department received a Stormwater Asset Management and Wastewater (SAW) Grant from the State of Michigan to allow the department to map and improve management of the storm and wastewater networks. The aging water network has been severely impacted by several deep freezes and as a result there are many leaks in the system in need of repair.



Parcel data may not align with other mapping data. This is not an error, but a difference in data creation.



Data Sources: City of Escanaba



Map 24: City Owned Property, 2015

City Electric Department

The Escanaba Electric Department is co-located with the Public Works Department. Department duties include electrical system distribution management and maintenance, trimming of trees around electrical lines and assets, street light maintenance, temporary electrical service, set-up and removal of service, and meter installation.

Recreation

The Recreation Department is located at 225 North 21st Street in the Catherine Bonifas Civic Center. The facility was built in 1967 with funds from the Catherine Bonifas Endowment Fund and is routinely upgraded by the City of Escanaba. The Recreation Department supports a wide array of sporting, recreational, and civic events offered by the City. Recreational opportunities are offered to all citizens and are held throughout the year, including such things as basketball, aerobics, pool, soccer, swim lessons, pickleball, tennis, volleyball, and dances. Non-motorized trails are a priority for future recreation development.

Public Safety

The Escanaba Department of Public Safety is located at 1900 3rd Avenue North and was constructed in 1974. Upgrades to the facility are needed with respect to the heating system and routine building improvements. The department combines fire and police services offering residents safety and security. The department is made up of three primary divisions including patrol, investigations, and communications and records. The patrol division serves as the initial response team for all fire and police calls. Patrol is broken into four primary platoons staffed by a total of four sergeants, four lieutenants, and one captain. The investigations division, comprised of two staff detectives, performs the follow-up for all cases that require extended time. The communications and records division is responsible for maintaining all records as well as dispatch service. In 2006, central dispatch duties were transferred to a local 911 Authority. The department is served by a K-9 program consisting of one drug and one explosive K-9 unit (dog and handler), which have been used in Escanaba as well as throughout the Upper Peninsula.

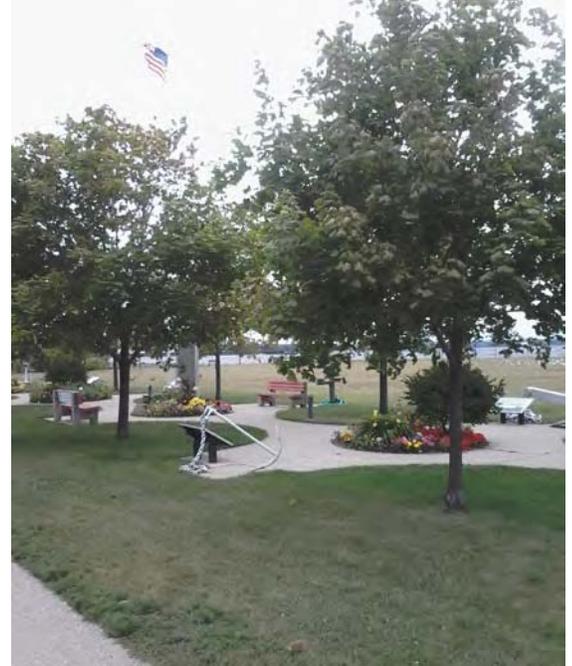


Image 8-2: Municipal Dock.

Water Supply and Distribution

Escanaba enjoys the benefit of an abundance of available fresh water found in Little Bay de Noc of Lake Michigan. Water quality in Little Bay de Noc varies due to winds, water levels, and invasive Zebra Mussels which effect turbidity. The water treatment plant manages these variables through various processes to provide the City with a safe and consistent water supply. Available ground water resources are less desirable due to the substantial hardness of the water and limited capacity. The City's Water Treatment Plant, built in 1952, serves 5,550 customers within the City limits, combined with 180 customers in Wells Township.

The City's Water Treatment Plant is located at One Beaumier Way The plant performs complete treatment operations including taste and odor control, fluoridation, and filtration. The system operates six primary processes, each performing a unique treatment function. At the initial intake segment of the process powdered charcoal is added to facilitate the absorption of tastes and odors. The next step is the



Image 8-3: The City's Water Treatment Center.

City of Escanaba Water and Wastewater Rates	
Water Monthly Rate (per 1,000 gallons)	
\$2.05	up to 10,000 gallons
\$1.63	up to 140,000 gallons
\$1.41	up to 350,000 gallons
\$1.28	over 500,000 gallons
Wastewater Monthly Rate (per 1,000 gallons)	
\$2.27	n/a
City of Escanaba, 2016. Rates do not include availability charges.	

critical disinfection process, which is performed through the addition of chlorine to the water. This step kills viruses, bacteria, and other harmful organisms. Aluminum sulfate is then added to the disinfected water, which causes particulate matter to clump together and settle to the bottom of a large tank in which the water is contained. Once the settling process is complete, sodium carbonate is added in the form of soda ash to increase pH and minimize the corrosive properties of water. At this point the water is fluoridated. The final step performed at the treatment plant before distribution is a sand filtration process removing any remaining particulates.

Following these six processes, the water is distributed through 80 miles of cast iron and ductile iron water mains of varying diameters between 4" and 16". The distribution system is maintained through 2,000 underground valves and services over 8600 fire hydrants. Currently the City's treatment plan has a maximum distribution capacity of 8 million gallons per day. The maximum demand, during the summer months, reaches 4 million gallons per day with an average daily usage of 2.5 million gallons. The City's total water storage capacity is 2 million gallons within three tanks, one underground tank holding 1 million gallons, and two elevated storage tanks each holding 500,000 gallons.

The City continues to make improvements and conduct maintenance of the existing facilities and distribution network. Since the implementation of the Water Treatment Plant in 1952, the City has made improvements and enhancements as technological advances allowed for better and safer water treatment operations. Recently, the City installed a new 30" intake at a cost of \$3 million. In the past a challenge to the department was the growth of zebra mussels in the intake pipes. However, the department has managed to address this issue so that it is no longer a problem. An on-going problem in the City, and other U.P. communities is the damage that extreme cold events, like those that occurred in the winters of 2013-2014 and 2014-2015, does to the water distribution network. These deep-freezes have resulted in significant water losses and costly emergency repairs. The department would like to assess the entire system for the presence of leaks. The system is currently losing a significant amount of treated water due to leaks.

The State of Michigan's assessment of the City's drinking water source describes the source as 'highly susceptible' to contamination due to the types of land uses and contaminant sources in the area. Sources of potential pollution include nitrogen and phosphorus run-off from agricultural areas, urban stormwater run-off, and commercial and recreational boat traffic in the Bay.

Wastewater Treatment

Escanaba's Wastewater Treatment Department is located on 1900 Willow Creek Road and was established in this current location in 1932. The facility currently operates as a Class B complete mix activated sludge plant with anaerobic digestion, liquid sludge disposal, and chlorine disinfections. Approximately 80 miles of pipe exist within the system.

The existing Wastewater Treatment Plant has seen numerous upgrades over the course of operations. In 1973, the treatment plant undertook a \$3 million renovation which added the complete mix activated sludge system, anaerobic digestion and phosphorus removal. In 1993, a new administration building and computer system were added to the treatment plant. In 1994, 300 acres of land were cleared for a sludge recycling location. Then in 1995, a 3,000-gallon tanker truck was purchased to support the sludge recycling and disposal program. During 1999, construction of a one million gallon sludge storage tank was completed. This same year the EPA awarded the City of Escanaba with the Region 5 Award of Excellence. Later that year in October of 1999, the EPA awarded yet another honor of National Operation and Maintenance. In 2001, additional improvements were made exterior appearance of the facility. It was during this time when the Plant received the Wastewater Utility of the Year Award, presented by Michigan's Rural Water Association. Throughout the history of the operation, Escanaba's wastewater plant has continuously been upgraded and maintained at the highest level of service. Needed improvements to the wastewater system include installing new pipes.

PUBLIC EDUCATION

Escanaba High School operates as a class B high school serving all Escanaba area high school students. For the 2014-2015 school year Escanaba High School had an enrollment of approximately 731 students from grades nine through twelve. Escanaba Junior High School provides education for students in grades seven through eight, with an enrollment of approximately 390 students. The Upper Elementary holds grades four through six and had an enrollment of 538 students. Three elementary schools support Escanaba's younger student population and support grades kindergarten through third. Webster Elementary has an enrollment of 209, Soo Hill Elementary has an enrollment of 143, and John Lemmer Elementary has an enrollment of 380. Due to a decline in enrollment, five other public schools have closed in the past two decades.

PRIVATE EDUCATION

Holy Name School provides enrollment for students from grades kindergarten through eighth with an additional preschool program. Holy Name operates within one building which has twenty three classrooms serving over 300 students. St. Anne, St. Anthony, St. Joseph/St. Patrick and St. Thomas Parishes provide funding and services to facilitate the operations of Holy Name School.

REGIONAL INSTITUTIONS

Escanaba has three primary institutions that serve the City of Escanaba and the south central region of the Upper Peninsula; Bay College, Bonifas Arts Center, and the OSF St. Francis Hospital.

Bay College

Bay de Noc Community College is a comprehensive two-year public institution chartered in 1963. The College provides a full range of transfer, technical certificate and degree programs for the residents of the Central Upper Peninsula as well as trainings for business and industry. Home of the first Michigan Technical Education Center to open in the State of Michigan, the center provides a variety of customized and technical skill training and professional development opportunities for working age adults across the

U.P. The campus is situated on 160 acres and services about 2,000 credit students each year, including those completing baccalaureate and master degree programs sponsored by partner universities. The College also hosts more than 40,000 visitors each year in a variety of conference, training, and meeting activities. The local YMCA is co-located on the college campus, providing recreational opportunities for local residents and college students.

Bonifas Arts Center

The William Bonifas Arts Center is located on the corner of 1st Ave South and South 7th Street and serves as the arts and culture hub of the community. The facility has fine arts galleries that feature local artists and are open to the public. Additionally, the center offers art classes and workshops to aspiring artists. The facility also has a theater where live theater productions are put on by the Players de Noc throughout the year. Bonifas Center leadership plays a major role in promoting arts across the region.



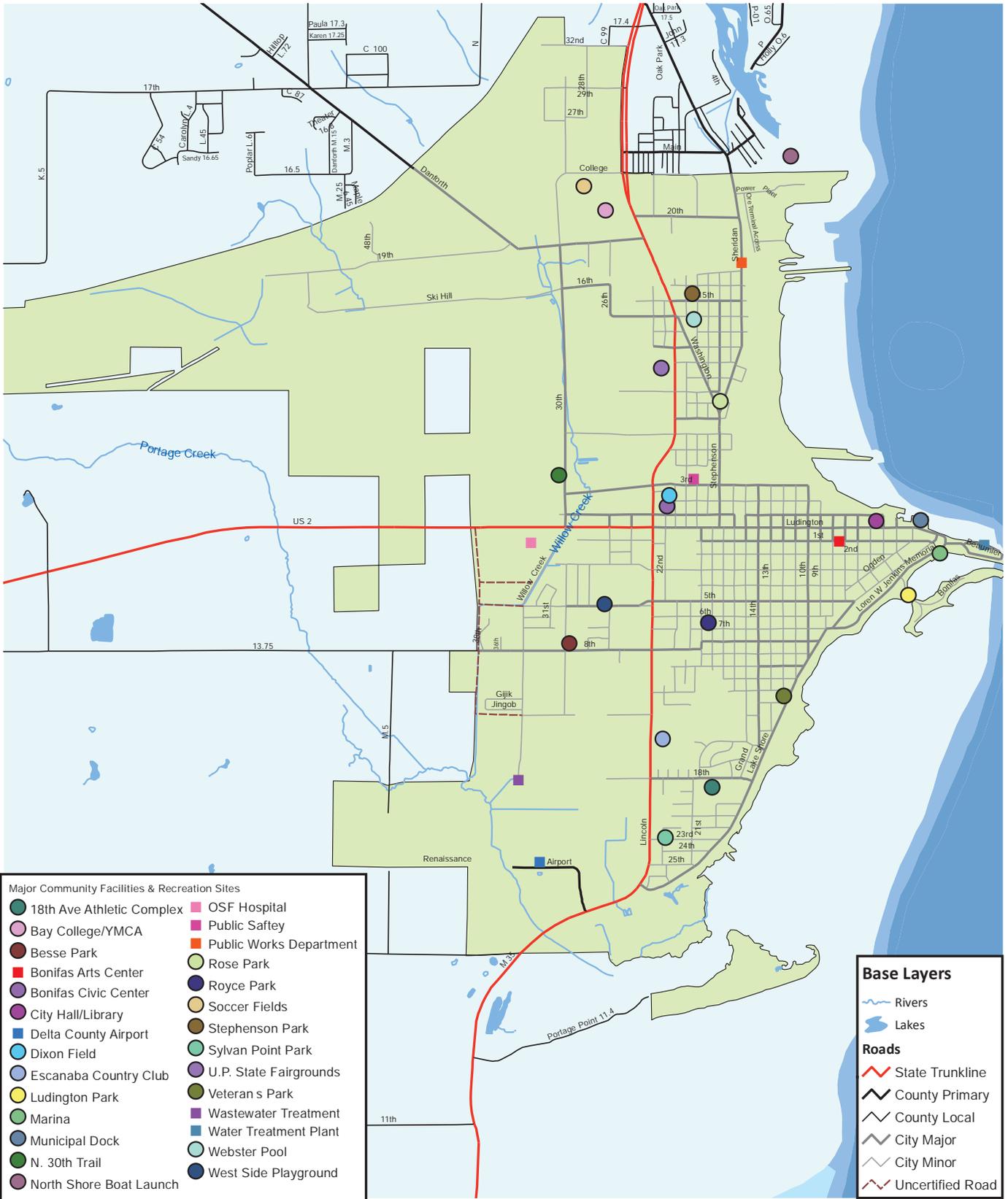
Image 8-4: Bonifas Center.

OSF St. Francis Hospital

The Sisters of the Third Order of St. Francis, East Peoria, Illinois, established OSF St. Francis Hospital of Escanaba. This group of women started providing health care services for the region in 1884. Two fires destroyed most of the original hospital in 1889 and another in 1926. The original hospital was rebuilt and was added to periodically as demand for services increased. In 1986, the Third Order of St. Francis again demonstrated their commitment to the community by constructing a new 110 bed hospital facility located on 82 acres on the west side of Escanaba. In 2006, the Sisters of the Third Order of St. Francis opened a Magnetic Resonance Imaging (MRI) unit and a Cardiac Diagnostic Center at the hospital. In 2014, the 14,500 sq. ft. Besse Physical Rehabilitation and Wellness Center was built to improve and expand hospital services. These new services provide area residents with an enhanced level of care and keep area patients from having to travel long distances for these types of services.

The OSF St. Francis Hospital continues to operate under the original philosophy of the sisters:

“In the spirit of Christ and the example of Francis of Assisi, the mission of OSF Health Care is to serve persons with the greatest care and love in a community that celebrates the Gift of Life.”



Map 25: Major Community and Recreation Sites

8.3 Issues and Opportunities

Issues:

In the public survey one of the top concerns was improving public safety. In particular, people are concerned about drug use, which is a growing issue affecting the Upper Peninsula and many other rural communities in the United States.

The City's water infrastructure is aging and will require significant investments in the coming years in order to remain functional and efficient. Fixing leaks in the aging pipes is a priority as a large portion of treated water is lost from the system. The high groundwater levels in the area causes infiltration into the sewer system that is costly for the City to treat. A SAW grant of \$600,000 for Wastewater Treatment \$400,000 for storm sewers will identify problems in these networks and improve their management.

The primary treatment area of the Wastewater Treatment Plant is aging and in need of investment in order to remain functional into the future.

Little Bay de Noc is a vital resource for the City and must be protected. Although there are no reported stormwater quality problems, the City should be proactive in requiring low-impact development standards and other stormwater mitigation techniques to ensure that storm run-off from the City does not affect water quality.

Improvements and maintenance to the power, water, and wastewater systems are included in the City's 5-Year Capital Improvement Plan.

In recent years the State of Michigan's statutory revenue sharing obligations have been unmet as the legislature has diverted funds to cover budget shortfalls. Revenue sharing is intended to compensate cities for the cost of providing infrastructure and other services. The reduced funding levels have caused financial hardship for the City and result in challenges to pay for infrastructure investments and other local needs.

Opportunities:

Water and electric utility rates in the City are lower than those of most Upper Peninsula communities, which may help the community attract new businesses.

Monies from the City's electrical fund could be used to develop renewable energy in the community. This would improve environmental sustainability and ensure local electrical costs are resilient to regional electric supply problems. Additionally, the fund could be used to improve the energy efficiency of homes in the community.

Chapter 9: Recreation & Open Space

Introduction

The City of Escanaba is located in a region of the Midwest that offers many opportunities for outdoor recreation. The vast surrounding wilderness and large bodies of fresh water invite tourists and residents alike to experience all that the northern climate has to offer. With over 420 acres of park and recreation facilities, Escanaba offers a wide array of recreation and leisure opportunities to the residents.

The City's location on the northern shore of Lake Michigan provides it with a unique variety of outdoor recreation opportunities. Residents have voiced interest in enhancement of these recreational facilities throughout the community. Preservation of open space for public use not only creates recreational opportunities, but also improves the community's quality of life, increases local property values, attracts more tourism investment, and sparks new life into less desirable neighborhoods.

9.1 Recreation

The City's waterfront provides many recreational opportunities; fishing, boating, sailing, kayaking, and many other water sports are easily accessible through the use of two primary access points at both the North Shore Boat Launch and the Ludington Park Municipal Marina. The North Shore Boat Launch was the location for the 2014 and 2016 Cabela's professional walleye tournaments. Five hundred fishermen in 250 boats came to Escanaba to fish the waters of Little and Big Bays de Noc. Fishing tournaments



Image 9-1: Summer festival along the lakeshore.

generate a great deal of revenue for the community and have been widely supported by the residents and business owners alike. Additionally, residents and tourists use the full service Ludington Park Municipal Marina and Boat Launch, offering mooring and launching for motorboats, sailboats, and kayaks. The Marina offers 165 available slips. The community regards Little Bay de Noc as a primary asset, simply because it offers such a diversity of recreational and scenic resources.

The 120-acre Ludington Park extends north and south, parallel to the lakeshore, including the Municipal Marina along Lake Shore Drive and Loren W. Jenkins Memorial Drive. Ludington Park includes the site of a variety of community activities as well as a pedestrian/bicycle pathway. Open 7:30 am-11:00 pm daily, Ludington Park is an active area with picnic areas, the Harbor Hideout Playground Complex, open greenspace areas, four lighted tennis courts, disc golf, six sand volleyball courts, one outdoor basketball court, a fitness circuit, a public pavilion, a gazebo and public restrooms.

Ludington Park also encompasses Aronson Island, the site of the City's swimming beach, a small playground, and walking trails. The beach has a bathhouse that is open seasonally and also the location of a kayak and paddleboard outfitter.

Musical performances can be seen from the lawn or outdoor seating at the Karas Memorial Bandshell, in Ludington Park, each week throughout the summer. Additional recreational facilities of Ludington Park include the municipal beach coupled with the scenic vista of Lake Michigan. Additional parks and sports facilities are located throughout Escanaba providing a variety of opportunities for residents to enjoy the community through leisure activities. Table 9-1 describes the park and recreation facilities located throughout the City.

Park and Recreation Facilities		
Facility Name	Ownership	Description
Ludington Park	Public	A mile-long 120 acre park along the lakeshore. Facilities include municipal beach, marina, bandshell, pavilion, playground equipment, tennis courts, volleyball courts, walking trails, natural areas, gazebo, boat launch, and disc golf. Owned and maintained by the City.
Waterfront Center	Public	A multi-purpose building utilized for recreation programs and activities. Facility includes a gameroom, gym, meeting rooms, showers and locker room, and pistol/archery range. Owned and maintained by the City.
Donnell	Public	This field is located next to the Bonifas Civic Center and is owned and maintained by the City. It is primarily used for little league baseball.
Webster Children's Pool	Public	A wading pool (9-12 inches in depth) open to children between ages 3-10. The pool is open seasonally. The facility is located next to Webster School on the 1300 block of 19th Street and is owned and managed by the City. In winter months the land adjacent to the pool is used for public ice skating.
Washburn Playground	Public	A 1 acre playground located at the intersection of Washington and Stephenson Avenues. The park is owned and maintained by the City.
Stephenson Park	Public	The park has a ball field, basketball court, and playground equipment. It is owned and maintained by the City and located on N. 19th Street and 15th Avenue N.
Washburn Park	Public	A 2.5 acre site home to a ball field, tennis courts, basketball court, and playground equipment. Located between 6th and 7th Aves S. along 19th St. In the winter months the park is used for public ice skating.
West Side Playground	Public	This half acre park has a children's playground.
Washburn Park	Public	An approximately 15 acres site, home to Ness baseball field, Lemeraud Field, and Jefferson Playground. Owned and maintained by the City.
Washburn Park	Public	This 1.1 acre park has a pavilion, disc golf course, volleyball court, tether ball, and playground area. The park is owned and maintained by the City.
Washburn Park	Public	A 0.2 acre neighborhood tot lot located on 23rd Avenue S., east of M-35.
State Fairgrounds	Public	The 90 acre fairgrounds are owned by Delta County and managed by the Delta Chamber of Commerce. The fairground hosts events throughout the year.
Washburn Park	Public	This park is located along Lake Shore Drive between 12th and 13th Aves South. The park has four tennis courts, a baseball field, natural area, playground, horseshoe courts, and picnic area.
Washburn Park	Private	The 18-hole club is located along M-35 in the southern part of the City. The club is privately owned.
Washburn Park and Recreation Club	Private	The club has indoor and outdoor shooting and archery facilities. Located on 19th Ave N, west of US-2/41. Privately owned and managed.
Washburn Park	Public	A non-motorized trail on a 600 site that is open year round. Groomed for cross-country skiing and snow-shoeing in winter. Owned and maintained by the City.
Soccer Fields	Public	There are 2 soccer fields located on the northwest side of the Bay College campus.
Washburn Park	Private	Facility includes indoor pool, climbing wall, and fitness center as well as locker rooms. The center also offers recreational programs. The facility is located at Bay College on the north end of town.

Each summer, Delta County hosts the Upper Peninsula State Fair at the fairgrounds located on North Lincoln Road in Escanaba. Community members voiced interest in using these facilities for other activities throughout more of the year, to optimize the use of the land.

Recreational opportunities of the City are not only limited to the water and park resources found throughout the city. The Escanaba Civic Center offers programs for all ages running throughout the year. The center provides classes for seniors along with weekly meals and gatherings. Additionally, the center’s gymnasium facilitates community sports leagues for all ages.

During the winter months, the City continues to offer a multitude of recreational opportunities. Outdoor activities such as ice fishing, cross-country skiing, and snowmobiling are enhanced in the bright dry and sunny days and starlit nights. Seven miles of public cross country ski and snow shoe trails are maintained throughout the area along North 30th Street. Enhancements to this area, such as a larger parking lot and improved signage at the trailhead, would improve the use of this trail.

Festivals and Events

In addition to summertime concerts in the park, the City hosts a number of festivals and events throughout the year that make use of the waterfront and downtown areas. The events bring both residents and visitors into the heart of the community and residents have expressed a desire for more public events at Ludington Park and/or the Municipal Dock.

City of Escanaba Festivals and Events		
Event	Month	Location
Krusin Klassics	June	Downtown
Rock the Dock	July & August	Municipal Dock
4th of July Celebration	July	Ludington Park
Marina Fest	July	Municipal Dock
Waterfront Arts Festival	August	Ludington Park
UPtober Fest	October	Municipal Dock
Pasty Drop	December 31	Municipal Dock
Fireworks	December 31	Municipal Dock

Delta County Chamber of Commerce



Image 9-2: Tennis courts at Ludington Park

9.2 Open Space

Open space preservation is crucial to maintaining the immense recreational opportunities available in and around Escanaba. Setting aside new areas for public use or wildlife protection enables the city to limit growth and manage development throughout the community.

Escanaba has maintained open space through parks and undeveloped areas. The community has voiced interest in continuing to preserve open space for public use in parks and common areas and for more non-motorized connectivity.

Whether land is used as open space for public use or wildlife protection, such areas may impose difficulties due to private ownership or contamination issues. These issues should be considered when the locations for open space, parks, and recreation facilities are determined. It's worth the effort to determine an area's potential as open space as this is a valuable resource that will continue to enhance and support Escanaba's vast recreation opportunities.

9.3 Issues and Opportunities

Issues:

In recent years the City has made improvements to the recreation system in order to create more accessibility. These improvements will help the city's aging population to continue to use the parks.

Through the online survey people expressed a desire for more bike and pedestrian paths, more use of the beach, concerns about the cleanliness of the beach and parks, more recreation options for all ages. People also expressed a desire for more year-round and indoor recreational facilities. Most people responded that they had ample green space in their neighborhood.

The people of Escanaba identified parks, nature, and the shoreline among the most attractive qualities of the community.

The City must continue to manage invasive species and maintain bird habit in parks and other publicly owned areas in order to maintain their quality.

Opportunities:

Non-motorized trail development should be a priority for the City. These pathways have been shown to improve public health and property and could be a strategy to attract and retain younger residents.

New funding tools, like crowd-funding, may help the City finance the development of new or improved recreational facilities.

Chapter 10: Transportation

Introduction

Transportation in the City of Escanaba is primarily developed for vehicular traffic through the existing infrastructure of roads and streets. Connecting the community through automotive transportation is a critical element and a necessity with the existing dependency on personal automobiles for transportation. Additional means of transportation within Escanaba includes the Canadian National Railroad which provides transportation of goods to and from the Port of Escanaba. The Delta County Airport also provides passenger and freight air transportation to and from the City. Non-motorized means of transportation also exist as multi-use pathways; however, improvements need to be made to ensure non-motorized, pedestrian and public transit is safe and efficient.

The City of Escanaba is located along three primary transit routes U.S. 2, U.S. 41 and M-35. These highways converge in Escanaba and connect to downtown at the intersection of Lincoln Road and Ludington Street. The existing network of streets and roads in Escanaba follows the east west and north south traditional grid pattern, with the exception of Ogden Avenue and Lake Shore Drive, developing the defined neighborhood blocks. An estimated 65% of roads and streets have associated sidewalks or pathways according to the 2003 City of Escanaba Non-Motorized Master Plan. Map 26 represents the street and road network for the entire City of Escanaba.

10.1 Road Maintenance/ Jurisdiction

In Michigan's Upper Peninsula, road systems require significant road maintenance due to the freezing and thawing processes that occur seasonally in the fall, winter, and spring. Furthermore, snow removal during the winter months poses a significant road maintenance responsibility to keep roads and streets clear and safe for travelers. Road systems provide the space within road right-of-ways to locate public utilities and infrastructure, therefore, acting as a major contributor to how and where development occurs. Maintenance and development of the road systems affects the environmental, economic and social well-being of the community's residents and overall character. As new roads are built in undeveloped areas or as roads are improved, new development becomes more likely. It is important the management of Escanaba's transportation networks perform in a manner that best serves the residents, businesses, and overall community.

The City of Escanaba Public Works Department is responsible for the maintenance of all City streets. Maintenance activities are limited by available funding and include the following:

- Management of City streets and parking lots
- Street signage and pavement markings
- Annual street sweeping and curbside leaf collection
- Streetscape landscaping and tree care
- Snow and ice removal
- Crack and damage repair

The City of Escanaba has continued to focus on the enhancement of the road systems to improve the safety and efficiency of the transportation opportunities. Following the recommendations of the U.S. 2 Visual Enhancement Plan, Escanaba Lincoln Road and Ludington Street Corridor Management Plan and

Non-Motorized Plan, the City has been working towards enhancing the transportation networks within the community that are managed and maintained by the Public Works Department. Residents value the appearance and views along the streets and roads and have shared the desire to continue to enhance and improve these valuable community features.

In the State of Michigan, the Michigan Department of Transportation (MDOT) maintains and manages all major state and federal highways. Consequently, U.S. 2, U.S. 41 and M-35 are all under the jurisdiction of the MDOT. However, the Delta County Road Commission is a very important factor in the accessibility and safety of the City of Escanaba roadways.

10.2 Road System

Classification

In the State of Michigan, the National Functional Classification system, or NFC, classifies all public roads. NFC is also used to determine those public roads and streets that are eligible to receive federal funding for improvements and maintenance. Within the City, the NFC classification provides a look at how the network of roads and streets is utilized through intensity and use. Map 21 shows the NFC for the City of Escanaba. Within the City, four classes of roadways exist and are listed as follows; Rural or Urban Local (1), Rural Major or Urban Collector (2), Rural or Urban Minor Arterial (3), and Rural or Urban Other Principal Arterial (4). To simplify these classifications, a description of each class is explained in the following discussion. For purposes of this discussion, the classifications will be condensed into the following classes.

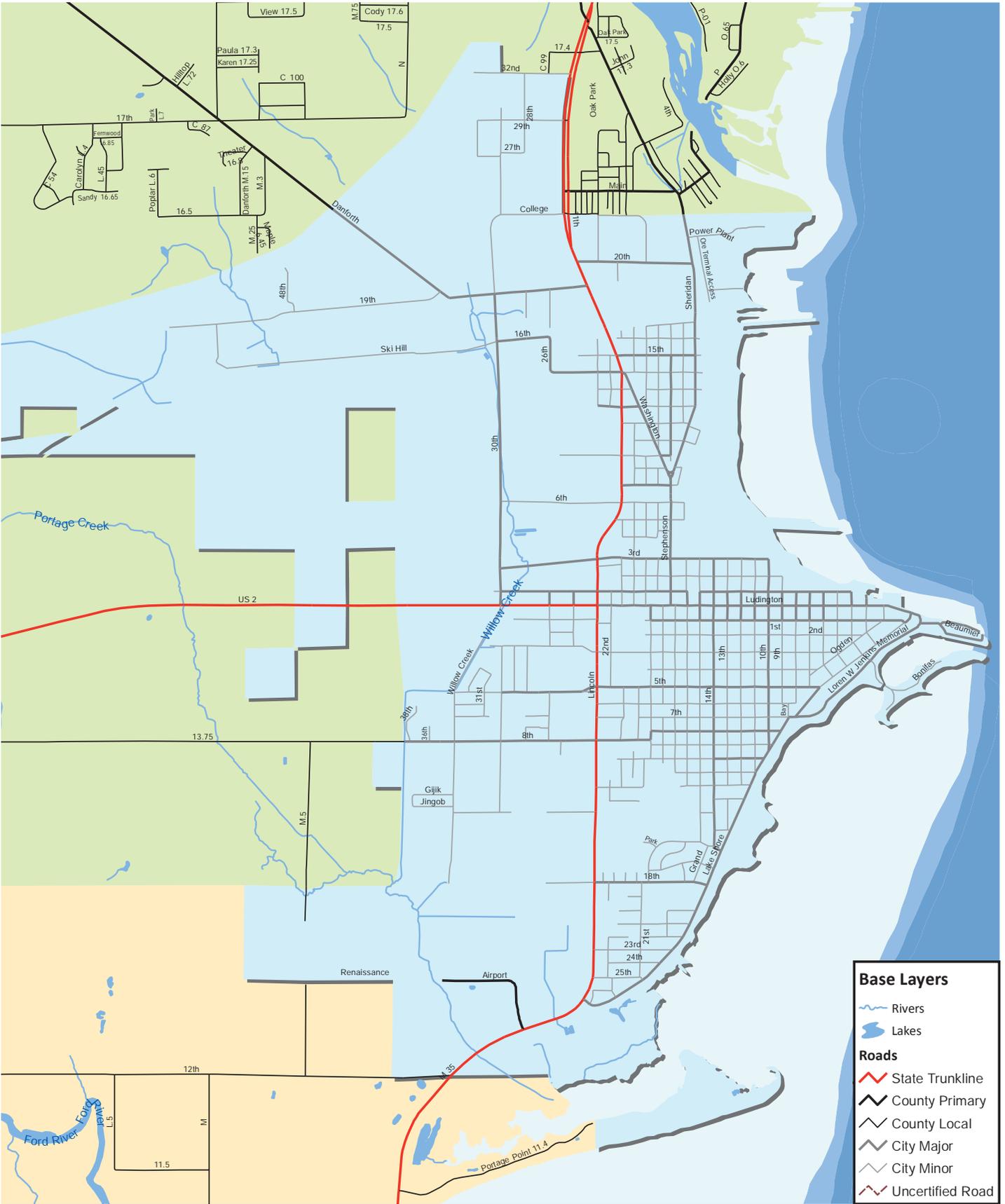
- (1) Rural or Urban Local-----Local
- (2) Rural Major or Urban Collector-----Collector
- (3) Rural or Urban Minor Arterial-----Minor Arterial
- (4) Rural or Urban Other Principal Arterial-----Principal Arterial

Local Roads (Neighborhood Streets)

The functions performed on local roads can be of residential or non-residential nature. In Escanaba, the majority of roads in the City are classified as local roads which make up the majority of the residential areas. A local road is intended to carry local traffic only and to provide direct access to abutting property within the interior of residential and non-residential areas. Local roads are developed in a manner which will discourage usage for through traffic by providing little access to areas outside that which is directly served. Limiting the intensity and range of traffic helps maintain low speeds and neighborhood safety. Local roads in the City are characteristic of most small town residential streets with adjacent sidewalks, street trees, and low speed limits. The local road system includes far too many streets and roads to list and, therefore, are shown as depicted in the light gray lines in Map 26.

Collector Roads (Major Streets)

Collector roads perform the function of collecting local traffic from local roads and directing this traffic to outlying destinations and roads which are designed to handle greater traffic volumes. Additionally, the collector roads draw traffic from the larger thoroughfares and distribute this traffic onto the local street network. More specifically, the collector roads act as the connection between residential and non-residential areas. Collection roads in Escanaba are primarily located within the residential neighborhoods and follow the north south, east west grid pattern of the City blocks. In the City, the collector roads include: 10th Avenue South, 14th Avenue North, 18th Avenue South., 1st Avenues North and South, 5th Avenue South, 7th Avenue North, 8th Avenue South, 9th Avenue South, Airport Road, College Avenue,



1 in = 3/4 mile



Data Sources: State of MI



Map 26: City of Escanaba, Road System



Willow Creek Road, 14th Street, North 26th Street, North 30th Street, South 19th Street, and North 16th Street. Collector roads are depicted in dark gray lines on Map 26.

Minor Arterial

Minor arterial roads support the next level of transportation, directing traffic along significant transit routes in a community. Minor arterials observe significant daily traffic and serve as the connection to outlying areas in the community. Minor arterials support both residential and non-residential areas. Minor arterials have higher speed limits than collector and local roads and offer more non-stop travel along significant lengths of roadway. Access to minor arterials is spread across all other classifications of roadway, therefore, serving all areas of the community. In the City, minor arterials are evenly distributed through those areas in the community which have the highest concentrations of people and, therefore, serve the greatest number of travelers. Escanaba's minor arterials include 3rd Avenue North, Danforth Road, Lake Shore Drive, Loren W. Jenkins Memorial Drive, Ludington Street, North and South 10th Street, Sheridan Road, Stephenson Avenue, and Washington Avenue.

Principal Arterial

Principal arterial roads are classified as primary roads or highways that function as the transit network that supports a large volume of traffic and diversity of transportation uses. Principal arterials are primarily used for commuting traffic and commercial activities. A principal arterial is intended to collect local traffic from minor arterials and transport it throughout and beyond the community. Therefore, principal arterials carry both local and through traffic. The City has two principal arterials: the U.S. 41 and U.S. 2 corridor, as well as the M-35 corridor to the south. These main thoroughfares are significant road networks throughout Escanaba as well as the entire Upper Peninsula. These major transportation corridors observe large flows of traffic and have been developed in a manner which is characteristic of these types of roadways. Commercial strip development has occurred along much of the U.S. 2 and U.S. 41 in the City. Principal arterials support primarily commercial areas and, therefore, are more desirable for commercial strip development. Unfortunately, this poses traffic congestion problems with an increased number of curb cuts along various businesses. Management and enhancement of these corridors has been a focus of the Escanaba community and improvements have been made as the City implements the U.S. 2 Corridor Visual Enhancement Plan.

10.3 Traffic Volume

The Annual Average Daily Traffic (AADT) count is the estimated mean daily traffic volume of a particular intersection or section of roadway. This count is measured by the Michigan Department of Transportation at set points along state trunklines. Map 27 shows general traffic volume patterns in the City.

Table 10-1 displays AADT counts for five locations within the City of Escanaba from 1996 to 2014. The first segment location listed is in the southern part of the City along M-35, beginning at the widening of lanes on Lake Shore Drive until 18th Ave S. The next measured road segment is from 8th Ave S to 5th Ave S also along M-35.

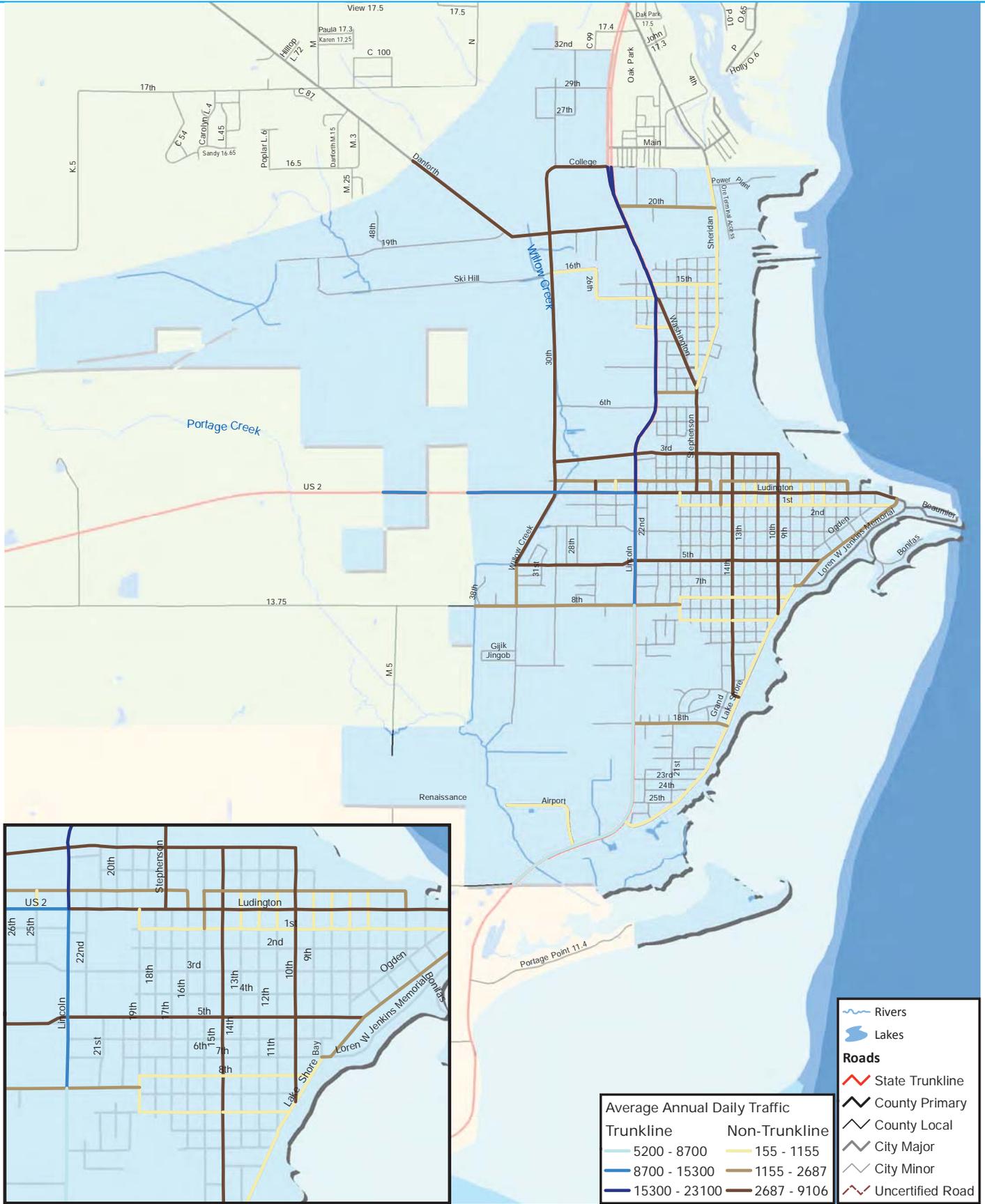
The third listed traffic count location is from North 30th Street to the junction of M-35 along U.S. 41. A spike in traffic is seen in the fourth location listed on Table 10-1 from 3rd Ave N to 12th Ave N. The increase in traffic is due to U.S. 2 and U.S. 41 merging with M-35. As the traffic counter locations move further north, the traffic volume continues to rise as seen from the Danforth Cutoff to 32nd Street traffic count.

a e					
Escanaba Area, Annual Average Daily Traffic Volumes, 1996-2014					
Year	Traffic Counter Location				
	La es ore Dr ane to t e S	t e S to t e S	t Street to M	rd e to t e	Danfort utoff to nd Street
	7,412	12,559	12,719	24,112	24,197
	6,189	13,359	13,101	24,563	25,020
	6,836	12,495	13,520	25,447	25,921
	7,000	12,795	13,387	22,553	29,419
	7,274	11,696	14,200	23,004	30,007
	7,361	11,836	13,178	23,661	25,603
	6,979	12,502	13,494	24,229	26,217
	6,972	12,489	12,594	24,205	26,191
	7,178	11,517	12,644	23,482	27,775
	7,135	10,926	11,392	21,642	26,539
	5,837	10,681	11,084	21,058	25,822
	5,726	10,478	12,255	21,184	24,317
	5,363	10,655	11,176	18,387	24,606
	5,401	10,730	11,860	19,086	23,256
	5,619	10,195	12,228	19,678	23,977
	5,501	9,981	11,554	19,265	23,516
	5,534	10,041	11,623	18,990	23,657
	6,133	11,556	11,728	19,161	23,870
	6,250	11,776	11,019	19,606	23,092

Source: Michigan Department of Transportation, Annual Average Daily Traffic Report for years cited

a e					
Escanaba Area, Average Commercial Daily Traffic Volumes, 2005-2014					
Year	Traffic Counter Location				
	La es ore Dr ane to t e S	t e S to t e S	t Street to M	rd e to t e	Danfort utoff to nd Street
	709	709	651	1,216	1,216
	782	782	792	1,215	1,215
	785	785	798	1,021	1,021
	590	590	715	974	974
	525	525	660	997	997
	649	649	662	1,467	1,467
	637	637	636	1,427	1,427
	625	625	672	1,447	1,447
	666	666	566	1,412	1,412
	679	679	548	1,260	1,260

Source: Michigan Department of Transportation, Annual Average Daily Commercial Traffic Report for years cited



1 in = 3/4 mile
 0 0.75 1.5 Miles
 Data Sources: State of MI



Map 27: City of Escanaba, Average Annual Daily Traffic, 2014

The Commercial Annual Average Daily Traffic (CADT) count displayed in Table 11-2 is the estimated mean daily traffic volume for commercial vehicles as measured by the Michigan Department of Transportation. The values are calculated using the same procedures as AADT. With the exception of the decrease in commercial traffic measured in 2008 and 2009, commercial traffic volumes have remained relatively stable with the last ten years.

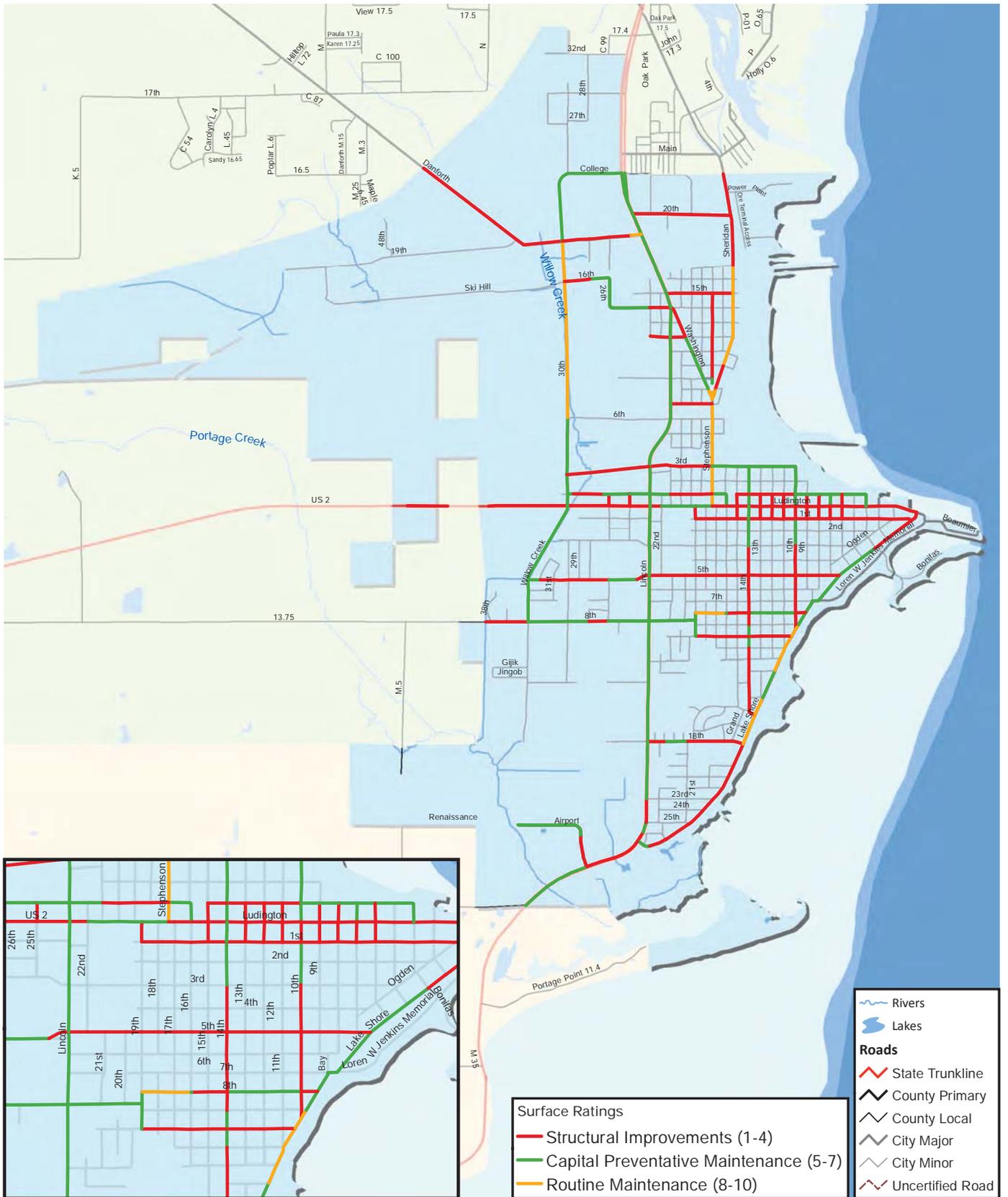
10.4 Evaluation of Existing Roads

Asset management is an emerging concept in the transportation industry and takes a strategic approach to transportation. The idea is to manage infrastructure (assets) by focusing on performance. PASER is a road rating system that uses a 1 to 10 rating scale, with a value of 10 representing a new road and a value of 1 representing a failed road. Condition ratings are assigned by monitoring the type and amount of visual defects along a road segment while driving the segment. 35.7 total fed-aid centerline miles were rated within the City of Escanaba through PASER. 18.4 of those miles were rated 1-4 and are in need of structural improvements. 13.8 miles received a rating of 5-7, requiring capital preventative maintenance. Lastly, 3.47 miles were rated in the 8-10 range requiring routine maintenance. This information is displayed in Map 28.

After evaluating the existing road system in the City, it is evident that there is a relatively uniform grid pattern of development throughout the transit network. This connectivity is an important factor in the quality, efficiency and practicality of any road system. To ease interpretation of the road system evaluation, a list of strengths and weaknesses is provided below to outline those assets that the City can build from and add to.

Figure 10-1 and Table 10-7 describe the opportunities for improvement along the U.S.2/41 corridor. These opportunities address many of the issues described in Table 10-3.

Strengths
Road design which directs flow of traffic from less intensive local residential areas to more intensive arterials.
A hierarchy of roadways that allows traffic to access a diversity of land uses and access outlying destinations.
The convergence of main thoroughfares U.S. 41, U.S. 2 and M-35 allowing the flow of through traffic and allowing residents access to state highways.
Utilization of the U.S. 2 Corridor Visual Enhancement Plan.
Utilization of the Escanaba Lincoln Road and Ludington Street Corridor Management Plan.
Efforts towards streetscape enhancement along Ludington Street and Lincoln Road.
Utilization of site development standards and site plan review to implement access management concepts.
Weaknesses
Commercial development along the Lincoln Road and Ludington Street corridors with excessive driveway access.
Visual quality of existing roads and streetscapes, especially Ludington Street and Lincoln Road.
Signage for pedestrian crossings and safe crossings along Ludington Street and Lincoln Road.
Unsafe ingress and egress from U.S. 2 and U.S. 41 corridor due to traffic speed and volume.
North entrance to the City needs to be improved.



Map 28: City of Escanaba, PASER Ratings, 2015

10.5 Non-Motorized Transportation

Non-motorized transportation is an overlooked element that can greatly enhance the overall quality of life for the community's residents. Investing in trails is also a strategy that can improve public health and economic development. The availability of safe and efficient non-motorized transit routes increases access to recreation facilities, community centers, residential neighborhoods, schools, and local businesses. Residents that are unable to gain access to automobile transportation are given more opportunities to enjoy community resources when pathways, sidewalks and trail systems are integrated into the community. The City residents have voiced strong interest for improving and building on the existing network of non-motorized transportation opportunities throughout the community.

As previously mentioned, the City has a well-defined network of local roads and streets. Local streets were developed in the traditional neighborhoods in the southeastern portion of the City in conjunction with sidewalks. However, areas that have developed outside of these traditional neighborhoods have seen fewer sidewalks built in concurrence with the residential streets. While sidewalks are not the only means of non-motorized transportation, they serve the greatest number of individuals, and, therefore, are a critical asset to the connectivity of the community.

Bike trails and pathways also serve as a means for non-motorized transportation within a community. In recent years, mountain biking and snow biking have become popular activities in the region and events that draw these types of trail users have proven to be popular. The City has developed non-motorized trails for pedestrians and cyclists along the lakeshore through Ludington Park. Linkages to other parks and neighborhoods via the Ludington park pathway are available by way of sidewalks along streets. However, connectivity to and between parks needs to be improved. Furthermore, access via pedestrian travel is non-existent in outlying areas and features in the community such as the YMCA, Bay Community College, and the Escanaba Senior High School.

Analysis of the pedestrian and bicycle transportation routes reveals a need for enhancement in specific areas of the community. By considering both the public participation objectives and looking at the distribution of land uses, areas that are in need of non-motorized connectivity are revealed. The following discussion presents these areas of need and focuses on possible enhancements.

Residential Neighborhoods

Pedestrian sidewalks and walkways within residential neighborhoods are a crucial feature that encourages interaction among neighbors, residents and sub-communities within the City. While the majority of the City does have existing sidewalks, residential areas remain that are lacking these features. The areas that do have well developed networks of sidewalks are primarily within the traditional historic neighborhoods in the southeast portion of the City. Additionally, sidewalks are developed in neighborhoods known as, "North-Town", especially between 6th and 7th Aves North, and along the downtown shopping district of Ludington Street. Connecting all of the neighborhoods through a network of pedestrian sidewalks will provide more non-motorized opportunities and allow more people access to all areas of the community. North 20th Street from 7th Avenue North to 11th Avenue North should also be a priority.

Public Schools and Community Features

The importance of safe pedestrian access to schools and other institutions cannot be over emphasized in any community. Many people expressed concern about pedestrian and bike access to Bay College and the YMCA. In addition to school aged children and senior citizens, Table 10-4 indicates that there

are many in the region who do not have regular access to a vehicle. Therefore, concentrating efforts to enhance these features in areas with greater concentration children, seniors, and poverty is critical. Extending neighborhood sidewalks to reach schools and community features will be of primary concern to the development of any non-motorized transportation framework. This framework must include features to ensure safe street crossing such as: lighted cross walks, reflective road painting, traffic calming and the appointment of crossing guards at major intersections during appropriate times during the day. Additionally, the connectivity of the neighborhood sidewalks needs to include parks, public buildings, as well as grocery stores and major employers, such as OSF.

Outlying Features

One significant concern of local residents was the lack of safe pedestrian access to Bay Community College, the YMCA, and the Escanaba Senior High School. Currently, pedestrian access to each of these institutions is routed along major thoroughfares of the M-35 and U.S. 2 and U.S. 41 corridors. The high school would benefit from increased street crossing safety measures as well as linkages to outlying residential neighborhoods. This type of pathway or sidewalk linkage would also open up access to neighborhoods which currently may not have existing sidewalks. Bay Community College students and faculty and YMCA users would also benefit from the development of pedestrian pathways along Lincoln Road into the downtown and residential areas. Currently, pedestrians accessing the Bay Community College are forced to walk along the busy highway corridor in close proximity to and with no barrier from vehicular traffic or trespass on private property. Providing access to these two crucial community features will not only enhance these features but will contribute to the overall connectivity and walkability of the City.

Strengths	Defined network of neighborhood sidewalks in traditional residential areas and along the downtown shopping district.
	Recreation pathway for cyclists and pedestrians through Ludington park along the lakeshore.
	Strong community desire to enhance the pedestrian accessibility throughout the community.
	Implementation of the Non-Motorized Plan to develop new trail systems and enhance existing features.
Weaknesses	Lack of neighborhood sidewalks in some residential areas in the community.
	Unsafe pedestrian traffic routes along major thoroughfare corridors.
	Limited access to commercial areas and outlying features via pedestrian and other non-motorized modes of transportation.
	Limited and unsafe crossing opportunities along Ludington Street.



Image 10-1: Lincoln Road Between 5th and 6th Ave. N.



Image 10-2: Conceptual image showing proposed improvements. Taken from 2003 Lincoln Road & Ludington Street Corridor Management Plan.

Delta County Demographic and Profile Data					
Population	Population Age 65+	Percent with Disability	Average Household Size	Below Poverty Level	Per Capita Income
36,967	19.6%	18%	2.29	16.4%	\$22,471
Mean Household Income	Households w/ 0 Vehicles	Households w/ 1 Vehicle	Households w/ 2 Vehicles	Number of Work Commuters	Mean Travel Time to Work
51,672	7.1%	33.2%	40.3%	15,316	18 Mins
Work Outside County	Commute w/Car, drove alone	Commute w/Car, carpoled	Commute w/ public transport	Commute via walking	Worked at Home
9.8%	82.3%	10%	0.5%	2.7%	3.1%
Source: 2013 ACS 5-Year Survey					

Incorporating non-motorized pathways and sidewalks in the City is not only an important planning goal, but also a step that will greatly enhance the overall quality of life for residents. The following is a list of those features that are considered to be strengths and weaknesses.

10.6 Public Transportation

Public transportation in Delta County is provided by DATA (Delta Area Transit Authority). DATA does not provide regular regional service. However, DATA does provide non-emergency medical transportation to or from most areas in the region. This service can be dedicated, shared, or demand-response. One day advanced notice is required. The cost for this service is \$40.00 per hour with a two hour minimum and is available depending on resources. DATA buses can also be chartered by government or human service organizations.

DATA is funded by a millage paid for by the City of Escanaba, Escanaba Township, and the City of Gladstone, therefore DATA's transit services are primarily dedicated to these communities. The service operates from Monday through Friday from 7:00 am until 6:00 pm. DATA is not always able to meet the needs of county residents. Although there are regular services to the rural parts of the county, the demand response services are limited to the communities of Escanaba and Gladstone. The fares to ride DATA vary by location and distance, but half price fares are available to seniors, handicapped, and students. In order to qualify for the half-price fare residents must verify their status with DATA in advance.

DATA has a regular route in the City of Escanaba that services the major apartment complexes every hour on weekdays from 9:00 am to 3:45 pm. The bus connects residents to the main shopping area and is able to stop at medical or business centers as requested. There is also a regular shuttle between Gladstone and Escanaba from 9:00 am beginning at the Bluff areas and then goes to the areas East of US-2 & 41 & M-35 and stops at the Gladstone Senior Center at 9:20 am. The bus heads towards the main Escanaba shopping areas and picks-up riders along the way. The bus will continue to other parts of Escanaba as needed. This service runs hourly until 3:45 pm. DATA also provides services for Escanaba residents who attend Bay College during the fall and winter semesters on weekdays from 8:00 am to 5:40 pm. The cost of riding the Escanaba–Gladstone shuttle is \$2.00.

DATA also offers regularly scheduled routes to rural communities in Delta County. Residents of these areas are charged a higher rate than Escanaba and Gladstone. There is twice daily service to the Bark

River area on Tuesdays and Thursdays that leaves Escanaba at 7:30 am and 2:30 pm. Service to the Riverland area is available at 8:15 AM Monday through Wednesday and Friday and leaves Escanaba at 2:00 pm. On Thursday, this service leaves the Riverland area at 9:30 am and leaves Escanaba to return to Riverland at 12:00 pm. There is service to Rapid River available Monday through Friday that leaves Escanaba at 7:20 am and arrives at 7:45 am. On Mondays, Tuesdays, and Thursdays, there is a second bus that goes to the Rapid River area leaving Escanaba at 11:20 am. There is service to the Ford River area on Monday through Friday that leaves Ford River at 7:45 am and leaves Escanaba at 2:30 pm to return to Ford River. Service to the Danforth area is available Monday through Friday that leaves the Danforth area at 8:00 am and leaves the City at 1:45 pm to return to Danforth. The cost for transit for residents outside of Escanaba and Gladstone varies by distance.

In 2012 DATA provided 132,931 passenger trips and drove 434,443 miles with a fleet of 17 wheelchair accessible buses. It is unknown how many of these trips are to destinations outside of Delta County. 64% of DATA' ridership is either elderly or disabled. DATA receives requests for rides that they are unable to meet, but does not keep track of these requests.

In addition to DATA, the MichiganWorks! Office in Delta County spends about \$5,000 per year in helping pay for transportation to welfare recipients who are in the PATH program that have difficulty getting to a job. The PATH program administrator has noticed that the lack of transportation in rural parts of the county is a major hurdle to obtaining or maintain a job for low income people. This money can be used to pay for taxi or bus fares, car repairs, or other means to help a person get to work.

Inter-Regional Transit

Indian Trails: Indian Trails is the only formal transit provider that offers inter-regional service across the Upper Peninsula. The service also connects to the Lower Peninsula, Wisconsin, and Minnesota as well as to airports and rail service and nationwide bus networks. Statewide data indicates that 270,000 use Indian Trail's daily routes and that out of these people 36% do not have a car and about 20% cannot drive.

Indian Trails users	Area	On	Off
Location		14	16
Isle Royale		74	90
Marquette		1,654	1,573
Iron Mountain		170	166
Gladstone		31	42
Escanaba		7,455	7,463
Menominee		4	6
Menominee		46	86
Iron Mountain		502	479
Others		7	14
Manistique		154	172
Lower Peninsula		10,111	10,107

Source: Indian Trails, 2015

In the Upper Peninsula, Indian Trails has two routes that traverse the region from east to west and north to south. In the CUP the service makes daily stops in Menominee, Powers, Escanaba, Gladstone, Iron Mountain, Marquette, Manistique, Gwinn, and Ishpeming. The service does not extend into Alger County. In order to connect with nationwide bus networks, the buses in the Upper Peninsula run during the very early hours of the morning, between approximately 1:00 am and 8:00 am. Indian Trail buses are handicap accessible. Indian Trails receives public funding from the Federal Transit Administration (FTA) and MDOT.

10.7 Water, Air, and Rail Transport

Port of Escanaba

The economy of the City is tied closely to its working waterfront and the shipping of iron ore and wood products through its natural deep water port. The port is privately owned and operated. The port is currently underutilized, but a new pier that will enable larger ships to dock at the port is currently under construction.

In addition to shipping and receiving good, the port is also home to a ship repair business.

The City's North Shore Development Plan that was published in 2010 focuses on the future of this area.

Railroads

Railroads were one of the dominant forces that shaped early industry and settlement in Delta County. Rail was necessary to carry iron ore from the many mines in the region to Escanaba's port, where it was then shipped to steel mills and smelters. Although it used to be possible to travel across the region via passenger rail, this service has disappeared entirely.

Three carriers provide rail freight service in the Upper Peninsula:

- Canadian National
- Escanaba and Lake Superior
- Lake Superior and Ishpeming

The Canadian National (CN) rail line which runs from Marquette County to Escanaba primarily transports iron ore pellets from the Marquette iron ore range to the ore docks in Escanaba. CN occasionally transports limestone to the mines. Since 1864, iron ore pellets from the mining operations in Marquette County and Minnesota have been transported to Escanaba by railroad, where they are loaded onto ships and transported to steel plants along the lower Great Lakes. The CN rail line that runs east-west primarily through the southern part of the UP is an important line for transporting raw materials and supplies to paper making operations located in the U.P. and northeastern Wisconsin. From the Menominee-Marquette area, the track runs south through the cities of Peshtigo and Oconto, WI before terminating in the City of Green Bay, WI. CN has a major operating hub located in the City of Gladstone. Activities occurring at this terminal facility include switching of freight cars, repairs to freight cars, and servicing of locomotives.

The Escanaba & Lake Superior Railroad (E&LS) is a privately owned short line railroad company operating in Northeastern Wisconsin and the Upper Peninsula of Michigan. The E&LS is headquartered in Wells, MI. The facility in Wells is used for repairing cars and locomotives. The 208 mile mainline of the E&LS stretches from Ontonagon, MI to Green Bay, WI. In addition to the mainline, two key branches are the 6-mile Stiles Junction, WI to Oconto Falls, WI line and the 21-mile Crivitz, WI to Marinette, WI/Menominee, MI line. Other lines owned by the E&LS include Channing, MI to Republic, MI, and Channing to Wells. The E&LS operates on trackage rights over the CN railroad from North Escanaba, MI to Pembine, WI. The E&LS connects with the CN at Green Bay, North Escanaba, Pembine, and Iron Mountain, MI.

Air Service

The Delta County Airport is located in the southern part of the City and is accessible from M-35. The airport is part of the Federal Department of Transportation's Essential Air Service program that helps to ensure commercial service to small communities. The airport currently offers 12 flights to Detroit every week.

As shown in Table 10-6 annual number of total scheduled passengers at the Delta County Airport decreased significantly from 1980 to 2010, from 40,269 to 17,810 passengers. However, the number of passengers varies greatly from year to year and is influenced by many different factors. Since 2010, the number of passengers has increased to 34,176. Comparing the fluctuations in passenger traffic across Upper Peninsula do not show any clear patterns, the number of passengers has increased in some parts of the region and decreased in others. This is likely due to the differing economic drivers across the region. Statewide, the number of passengers peaked in 2000 but has since decreased by 7.4 percent.

Airport	1980	1990	2000	2010	2014
Marquette County (K.I. Sawyer)					
Total Scheduled Passengers	67,951	78,116	88,791	114,295	80,657
Enplaned	33,718	39,094	45,076	57,595	41,006
Deplaned	34,233	39,022	43,715	56,700	39,651
Delta County (Escanaba)					
Total Scheduled Passengers	40,269	26,094	37,662	17,810	34,176
Enplaned	21,464	13,476	19,300	8,904	17,241
Deplaned	18,805	12,618	18,362	8,906	16,935
Ford (Iron Mountain)					
Total Scheduled Passengers	38,247	21,216	17,506	14,916	20,820
Enplaned	18,676	10,634	8,729	7,331	10,608
Deplaned	19,571	10,582	8,777	7,585	10,212
Houghton County Memorial					
Total Scheduled Passengers	49,330	45,568	63,801	42,652	48,250
Enplaned	24,796	23,099	32,482	21,559	24,440
Deplaned	24,534	22,469	31,319	21,093	23,810
Chippewa County (Kinross)					
Total Scheduled Passengers	21,657	17,354	29,992	28,189	41,752
Enplaned	10,736	8,844	15,504	14,371	21,240
Deplaned	10,921	8,510	14,488	13,818	20,512
Gogebic County (Ironwood)					
Total Scheduled Passengers	23,990	10,155	4,143	1,445	4,971
Enplaned	11,533	5,072	2,075	738	2,532
Deplaned	12,457	5,083	2,068	707	2,439
Statewide Total	12,286,623	24,251,220	40,276,845	37,004,785	37,328,071
Enplaned	6,116,695	12,115,381	20,128,576	18,532,762	18,632,020
Deplaned	6,169,928	12,135,839	20,148,269	18,472,023	18,696,051

Source: Michigan Department of Transportation, years cited

10.8 Issues and Opportunities

Issues:

The U.S. 2 and U.S. 41 (Lincoln Road), commercial strip development has resulted in numerous curb cuts and ingress egress safety issues. Additionally, visual blight along this major transportation corridors inhibits sight distances and aesthetic appearance of roadways.

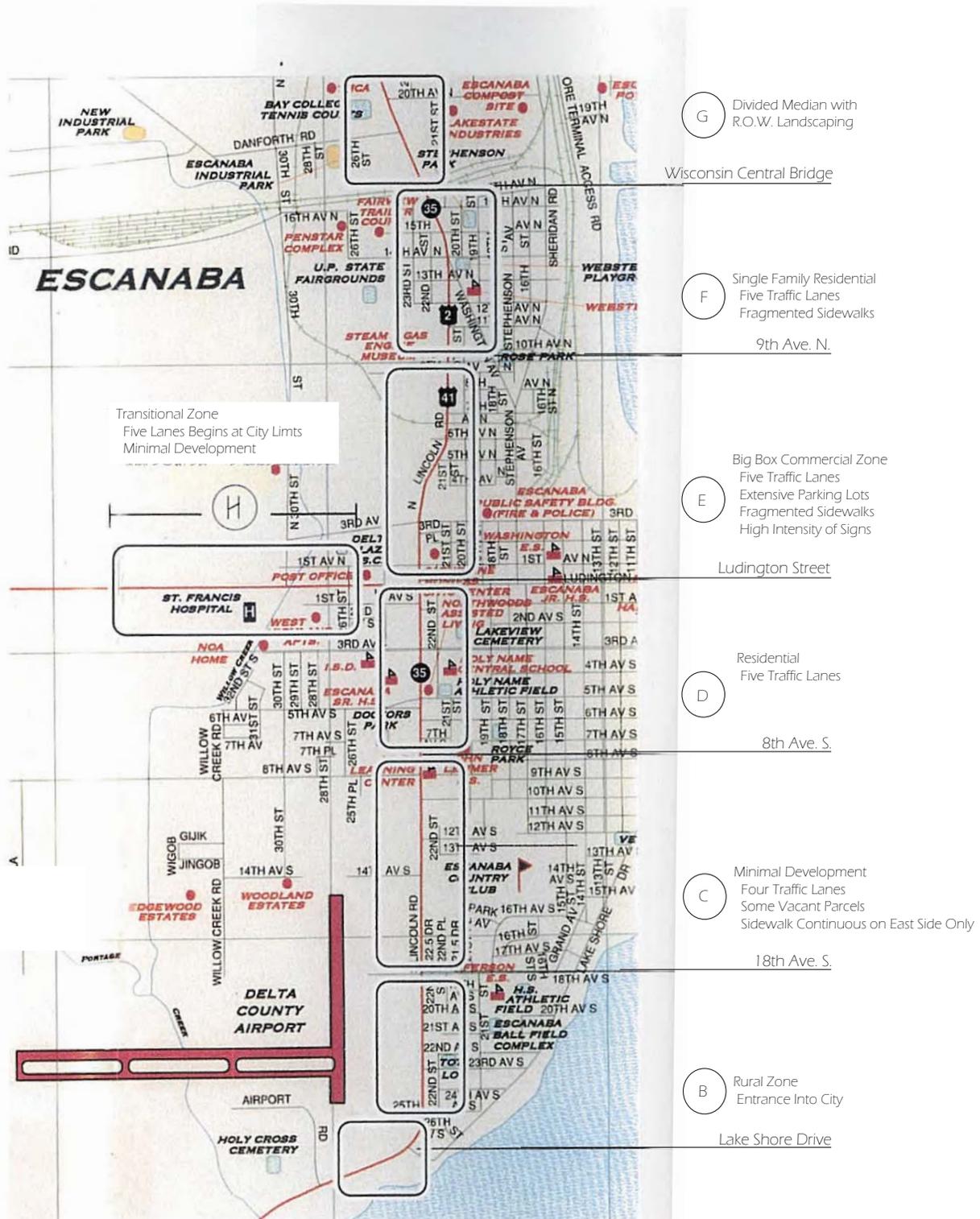


Figure 10-1: Zones along the U.S.2/41 Corridor and Current Conditions.

	eco	ended I	ro e	ents to	S	orr	dor		
eco	ended I	ro e	ents		D				
Streetscape Aesthetics									
Pedestrian Scale Lighting					X				
Decorative Roadway Lighting			X	X		X	X		
Screen Walls						X			
Foundation Signage						X			
Other Improvements									
Street Trees			X	X	X	X	X	X	X
Welcome Mural							X		
Welcome Sign								X	
Continuous Sidewalk	X			X	X	X	X		
Landscape/Grass Panels					X	X			
Reduce Pavement						X	X		

The City completed a Lincoln Road and Ludington Street Corridor Management Plan in 2003 that recommended a series of improvements to Lincoln Road that addressed many of the safety and aesthetic concerns that are still relevant today. Community leaders should seek to implement the recommendations made in this plan.

Many survey respondents expressed a desire for improved non-motorized paths and a need for improved signage and safety measures at pedestrian crossings and major intersections. In particular, safe pedestrian access along the Lincoln Road corridor is a problem. The large number of travel lanes along Ludington Street deteriorates the pedestrian environment.

Appearance of streetscape along Ludington Street and commercial areas is degenerating.

An increase in traffic on North 30th Street, that is acting as a bypass for Lincoln Road, affects the safety and use of the N. 30th bike trail.

A safe, efficient and well-designed transportation framework is the overall goal of any community's transportation plans. The City has a strong existing framework to build upon and enhance transportation opportunities. The traditional grid of neighborhood streets allows efficient transit throughout residential areas. Collector roads route traffic into more heavily utilized roads that then provide access to outlying destinations in and outside the community. However, extensive commercial development along major corridors and the decline of existing streetscapes and pedestrian areas has created the need for a variety of changes. Continuing to utilize existing corridor studies and streetscape enhancement plans will be the leading factor in remedying these issues.

There is a need for additional street improvement projects throughout the City. The most recent PASER ratings for the City roads indicate that more than 50% of roads are rated poorly. Additionally, residents have indicated that road repair should be a priority.

The construction of a new dock at the port may result in a need for the expansion of rail along the shoreline. The City should promote development in this area that is compatible with the vision for future land use in this area.

Opportunities:

Major road construction projects should be used as opportunities to expand the non-motorized network. Road diets and bike lanes should be considered in future capital improvement planning.

Changes to the State's road funding formula may provide the City with more road funding in the future.

Chapter 11: Public Participation

Introduction

Engaging people that live, work, and play in the City is an essential step in ensuring that the Master Plan has meaning and truly reflects the concerns and desires of the community. Throughout the planning process City residents had a variety of opportunities to share their vision for the future of the City. This chapter reflects the information collected through public participation in the community survey, master plan workshop and public engagement meeting, as well as through community outreach at public events.

11.1 Methods of Public Participation

Master Plan Workshop

This well attended evening workshop took place in November at the Upper Elementary School. City employees, community business owners, and residents joined together in sharing their knowledge of the City and addressing what opportunities lay ahead for the City.

Public Engagement Meeting

This public engagement session took place after a December Planning Commission meeting. Several community members attended the public engagement session and had the opportunity to share their vision for Escanaba with the Planning Commissioners as well as with CUPPAD staff. In this meeting, the group discussed the assets and weaknesses of the area, viewed region specific demographic and economic data, and identified feasible opportunities to make the City a more vibrant community.

Community Survey

Surveys were available online at the City's website and distributed at public events. In the 17-question survey, community members were asked what they believe the priorities of the City government should be, in addition to listing the City's most attractive qualities and identifying what is most in need of improvement, among other questions. Results from the survey provided a valuable look into what community members envision for the future of the City.

Information Table

Planning staff set up an information table at summer events, such as the Waterfront Art Fest and downtown sidewalk sale, with information about the master planning process and copies of the community survey. Staff were present to discuss the plan with the public and solicit input on the plan.

Master Plan Webpage

A page for the new Master Plan was created on the City's website (www.escanba.org). This page provides an online resource for those interested in learning more about the planning process. An online version of the Master Plan survey, explanation of planning process, links to general planning resources, and summaries of public engagement sessions were all available on this page. Also included is a contact form allowing individuals to sign up to receive updates on the plan and notifications of upcoming meetings via email or to voice any questions or comments.

11.2 Community Engagement Meetings

Master Plan Workshop

The Master Plan Workshop took place on November 12th at the Upper Elementary School on Ludington Street and had 35 community members in attendance. The workshop was facilitated by the Central Upper Peninsula Planning and Development (CUPPAD) Regional Commission.

To begin the workshop, a broad vision for the future of the community was identified through an exercise asking participants if they were to leave the City for 20 years, ideally, what would the City look like when they returned in 2035. With this vision in mind, the group began a S.W.O.T analysis assessing the strengths, weaknesses, opportunities, and threats facing the City.

Strengths

Workshop participants placed an emphasis on quality of life, community organizations and businesses, waterfront availability, recreational opportunities, and education as the major assets within Escanaba. Below is a complete list of strengths that were identified by participants.

- Bonifas Fine Arts Center • Waterfront • City facilities • Rich history • Small businesses • Park system • Recreational facilities • Library • Bay College • Fishing opportunities • Performing arts
- Parking availability • Slow pace • Accessibility • City government • Transparency practices
- Churches • Engaged residents • Friendly residents • Schools • Harbor • Affordable housing
- Safe community • Centrally located • Newspaper, radio • Historical museum • Infrastructure (port/rail) • Neighborhood character • Superior Trade Zone • Mile-long downtown
- Social services • UP State Fair • Great place to raise children • Joint governmental meetings • Community organizations • Downtown business group

Weaknesses

Participants were then asked to discuss what they considered to be weaknesses that the City may be facing. The lack of economic diversity and competitive employment opportunities were identified in addition to the underutilization of the North Shore, need for path connectivity and infrastructure improvements, and the ability to attract and retain young professionals.

- North Shore underutilized • Path connectivity
- Aging population • Underemployment • Rail transit
- Empty buildings • Sidewalks • Growing drug problem
- Community involvement • Environmental sustainability • Revenue cuts • Unemployment • Lack of demographic diversity • Lack of economic diversity • Lack of activities
- Aging infrastructure • Lack of hotel convention center in downtown • Blight

Opportunities

After carefully reflecting upon what the group identified as strengths and weaknesses within the community, participants were then asked to identify opportunities to utilize the City's strengths while also combating its weaknesses.

- Attracting residents from out of state • Better promotion of recreational opportunities (fishing,

a e :	
Top 10 Attractive Qualities	
1	Ludington Park, 168
2	Waterfront, 117
3	Friendly People, 111
4	Lake Michigan, 96
5	Small Town, 81
6	City Parks, 53
7	Recreation, 44
8	Schools, 39
9	Shops, 38
10	Nature, 37
Escanaba Master Plan Survey, 2015	

hunting, natural resources) • Create residential units in under-utilized buildings • Take advantage of training, grants, technical assistance from State and Federal sources • Better utilizing ports and the business opportunities associated with them • Effectively advertise winter opportunities to tourists • Encourage more high-end and mixed use housing • Increase vibrancy of downtowns, particularly in the evenings • Promote Community for a Lifetime designation • Find ways to utilize the U.P. State Fairgrounds year-round • Maintain Escanaba’s historic character

Threats

Potential threats were identified to provide a realistic look into what the City may be facing in the future. Below is a list of the threats provided by workshop attendees.

- Economy • Lack of employment diversity • Resistance to change • Aging communities
- Winter weather misconception • Costs shifted to local government • Inmates from downstate
- Federal and State mandates • Dark store tax loopholes affect on tax revenues
- Lack of regional transportation plan • Risk of losing commercial service at airport

Group Strategy Development Exercise

Utilizing the information gathered through the S.W.O.T exercise, participants divided into six focus groups to develop strategies to address an identified opportunity or threat. The following is a summary of the focus group’s strategic discussions.

UTILIZING THE LAKEFRONT

Better utilizing the lakefront by developing hotels or a convention center has the potential to increase tourism, boating activity, and the local economy. It also has the potential to positively impact park use, business traffic, and area walkability. The first step towards implementation would be addressing the current zoning situation. Then, with the support of the public, a Lakefront Development Master Plan can be created. With the development of the lakefront the community will hopefully see an increase in tourism, jobs, and a more vibrant downtown.

MAINTAINING HISTORIC CHARACTER

Escanaba’s rich history was listed as an asset to the City. Maintaining the historic character of the city would improve neighborhood aesthetics, increase property values, strengthen the community’s sense of place, and attract families and tourists to the area.

This can be done by taking advantage of facade grants, encouraging historic restorations, and offering incentives. Educating the public on importance of historic districts and increasing awareness of available programs will play an important role in maintaining the City’s historical character. Having the schools participate in historic home tours was an educational opportunity that was identified.

RECREATION

A Non-Motorized Master Plan for the county was identified as one strategy to ensure that existing recreational needs are being met. Noted priority pathways include: routes to schools, parks, Bay de Noc Community College, safe crossings for Lincoln Road, connector path from south of airport to Portage Point, connector to neighboring communities, and other points of interest such as grocery stores, hospitals, employers, and scenic areas.

Better utilization (year-round) of the North Shore Boat Launch was another group recommendation. Sand Point and the Danforth Ski Hill were presented as potential sites for dog parks. City leadership

and proper funding were identified important factors in completing these projects.

ATTRACTING YOUNG ENTREPRENEURS

The City has an aging population and because of this, attracting younger generations is a topic that is important to address. The promotion of the city's current assets on a national level was identified as a method to make the city a more attractive destination to live. Some of the assets that were discussed include highlighting of the existing high quality education system, affordable living, and quality of life (i.e. arts, recreation).

MANUFACTURING OPPORTUNITIES

Manufacturing is an important element of the U.P. economy and increasing the amount of manufacturing opportunities has the potential to diversify the current job market and have an overall positive impact on the community. Helping existing businesses grow with the assistance of the City, EDA, and DDA was a strategy that the focus group identified as a step towards increasing manufacturing opportunities. Some barriers that may stand in the way of such growth include declining population, limited pool of industrial workers, and lack of property for facilities.



Image 11-1: Master Plan Workshop, November 2015.

U.P. STATE FAIRGROUNDS USE

The U.P. State Fairgrounds is a unique asset to the community that is often under-utilized.

Future development opportunities were taken into consideration by the focus group. Some recommendations given by the group are as listed:

1. Develop Highway Frontage and increase curb appeal
2. New parking lot- possibly on the county owned property to the south (behind K-mart)
3. Expanding the racetrack
4. Hosting a Christmas drive through the light show (winter skating opportunities as well)
5. Upgrade Exhibition Building for use as meeting/training/ business facility
6. Utilizing as a regular flea market location

Attendees included: Elizabeth Keller, Blane R. DeGrave, Buffy Smith, Judy Fouts, Bob Richards, Randy Kleiman, John Anthony, Sue Parker, Daina Norden, Mark Hannemann, Kim Peterson, Melissa Becotte, Glendon Brown, Ed Legault , Bill Farrell, Glenn Vande Water, Andrew Crispigna, Carolyn Stacey, Peter Van Steen, Emilie Schada, Jeff Lampi, Emma DeGan, Marilyn Kinsey, Brian Black, Mike Furmanski, Thomas Warstler, Stephen Buckbee, Dennis Pearson, Jon Liss, Kelvin Smyth, Paul Caswell, Matthew Sviland, Jim O'Toole, Dan Bonala

Public Engagement Meeting

The public engagement session took place after the December 10, 2016, Planning Commission meeting. Community members participating in the public engagement session and had the opportunity to share their vision for the City with the City's Planning Commissioners.

This meeting, facilitated by CUPPAD, guided a discussion on the assets and weaknesses of the City, viewed region specific demographic and economic data, and identified feasible opportunities to make the City a more vibrant community.

Vision for the Future of the City

The group began by envisioning what the City will be like 20 years from today. In 2035 Escanaba will be an attractive community with a vibrant and bustling downtown that has a strong connection to the waterfront. The City will have well-maintained, sustainable infrastructure and a diverse economic base that affords residents with a high standard of living. The City will be friendly to pedestrians and bicyclists and home to high-quality schools, tree lined streets and an accessible shoreline. The economy and lifestyle will attract young professionals.

What opportunities does the community have to achieve this vision?

- Incentives for new businesses (particularly along Ludington)
- Centralized senior housing (retirement facility, could be town house options, other assisted living within complex)
- Viable housing for young adults – need good rental options for those not ready to buy a home, mid-range housing
- Ludington/Lincoln "facelift", including non-motorized connectivity, complete streets
- Encourage more use of the fairgrounds – attract niche tourist groups
- More community involvement-bring in real, actionable suggestions, cottage meetings – will build a force to work towards change
- Projects that will excite residents – gain involvement
- More investments in building upon strength, *not just those that seek to fix weaknesses*
- Non-motorized options downtown, everywhere in the City is within a 1/2 hour walk of downtown
- Skilled young employees for incoming businesses
- Strong, reliable, sustainable infrastructure
- Attain North Shore property
- Build on quality education
- Framework of quality of life – continue to build on that

What four opportunities should be prioritized? How should the City and community partners work to achieve these priorities? Participants were asked to reflect upon the list of opportunities collected by the group and vote on what they believe should be prioritized. The following is a list of the top four priorities as ranked by the group.

1. Incentives for new businesses downtown

- Work with state legislature to improve local tax incentives for downtowns
- Work with state legislature to create special sales tax exemptions for downtown business districts
- Educate business owners about opportunities
- City sponsored events

2. More Community Involvement

- Utilize person to person communication. People who are planning on coming to public meetings could reach out to 5 friends and try to get one of them to join
- Use apps and social media to better engage younger demographic
- Hold cottage meetings – gather friends and neighbors in a home, coffee shop, or another small space to talk about a community issue or opportunity

3. Invest more in building upon strengths, instead of focusing on weaknesses

- Invest in change on the lake front
- Develop strategies to enhance fishing, winter sports, boating, golf, wildlife viewing, and other outdoor activities
- Invest in specialized education programs
- Marketing activities designed to attract visitors to community assets
- Fully utilize the quality of our citizens (hardworking, friendly, loyal)
- Build on our unique history

4. Acquire North Shore Property

- The group that worked on developing this idea did not agree that the City should acquire North Shore property as much of it is in use. Instead, the group thought that the City should make the best of the area and look for opportunities that are compatible with the active waterfront.

Summary of Public Meetings

The public engagement meeting and master plan workshop both provided the opportunity for community members to actively participate in the planning process. The local knowledge received by participants gives the master plan greater value in better reflecting the community that it is intended to guide.

11.3 Public Survey

Over 500 surveys were completed by people that work, live, and/or recreate in the City of Escanaba. The 17-question survey asked community members specific questions about what they value within the City while also addressing specific concerns that they may be experiencing.

The survey was available on the City's website and paper copies of the survey were also distributed at several public events.

Survey Summary

Why Escanaba? When asked to rank the top reasons why residents chose to live in the City of Escanaba the top response was to be close to family, ranked number 1 by 39.1 percent of respondents. The response receiving the second highest rating at 34.4 percent was quality of life. Quality of life can be defined as the standard of health, comfort, and happiness experienced by an individual or group. As noted from the public engagement sessions, respondents generally believe Escanaba is home to a friendly, safe community with good educational and recreational opportunities all of which play an important role in overall quality of life.



Image 11-2: Waterfront Art Fest, 2015.

Attractive Qualities

Responses revealed a focus around parks, waterfront, and residents. Ludington Park was listed as Escanaba's top attractive asset by survey respondents followed by waterfront, friendly people, and Lake Michigan.

What improvements need to be made?

Economic Development

- More/ better employment opportunities
- Better utilization and improvement of downtown
- Improve or tear down mall

Local Government/Public Services

- Crime/police/ drug enforcement
- Public education
- Forward looking government

Quality of Life

- Enforce drugs/needles in community
- Year-round (indoor) activities for families, teens, and young children
- More retail/shopping opportunities

Parks and Recreation

- More walking and biking paths
- Better utilization/ clean-up of beach
- More recreational opportunities for all ages

Infrastructure & Transit

- Road and sidewalk improvements
- More lights on side streets

Housing

- Address blight, especially near downtown and Northtown
- Affordable housing for low/middle income residents
- Improve quality of rental housing

Survey respondents were asked to rank how important specific focus areas should be to city government. New commercial development (50.6%) and redevelopment of vacant or underutilized properties (45.6%) were the top ranked priorities. Ranked third was pedestrian and bicycle paths at 34.9%. Other written comments mentioned the attraction and retention of businesses, enforcing property maintenance codes, addressing community drug problems, and road repair.

Similar results were shown when asked to rate individual priorities. Respondents were asked to rate focus areas from 1 (support) to 4 (oppose). Attract and retain young professionals was ranked first, followed by attraction and retention of retail businesses and additional pedestrian and bike connectivity.

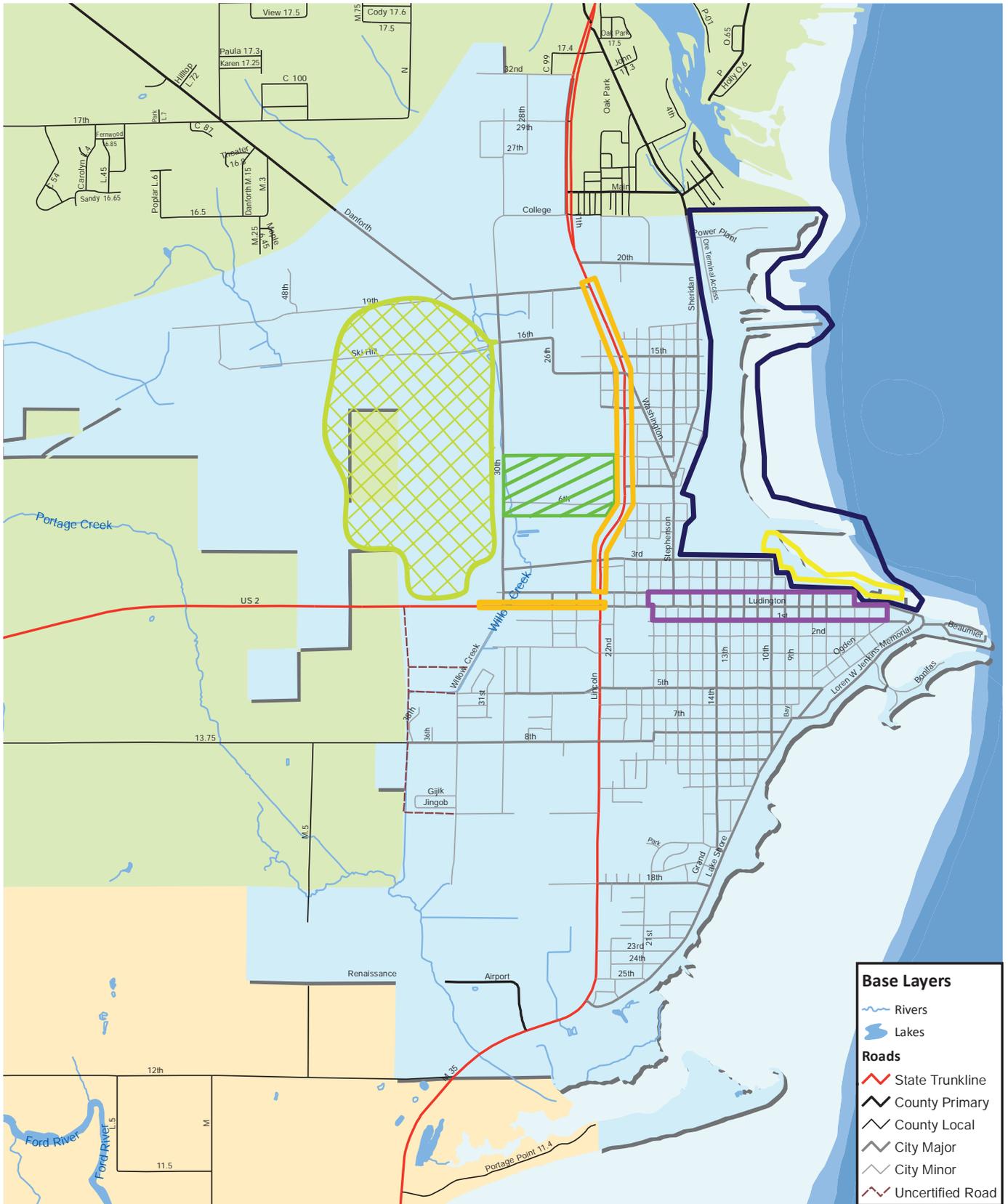
- 82 percent of respondents believe that there is adequate park or green space in their neighborhood
- 91 percent of respondents agree the City should seek to enhance the visual character of the City
- 59 percent of respondents agree that it is easy to get around town without a vehicle

11.4 Areas of Interest

The public participation revealed areas of interest and concern within the City. Priorities for future development or enhancement are downtown, North Shore waterfront, U.S. 41 commercial corridor, and regional retail zone (see Map 29). These areas have been identified over and over again by the public through different planning processes including the 2006 Master Plan, the U.S. 2/41 Access Management and Visual Enhancement Plans, and the North Shore Master Plan. Specific initiatives to address these areas are described in the implementation chapter.

People have expressed an interest in North Shore redevelopment. However, within the large North Shore area, varied barriers and opportunities exist across different areas and therefore each area should be considered separately. The areas within the north shore waterfront can be described as the downtown waterfront, transitional waterfront, and port waterfront. These areas are shown on Map 30. Priorities for each zone are described below.

North Shore Development Areas	
Downtown Waterfront, Ludington Park to 6th Ave N	
1.	Promote public access to the lake.
2.	Strategically locate development that links downtown and the waterfront, creating a critical mass for downtown.
3.	Take appropriate measures to remove blight.
4.	Create additional water related recreation uses.
5.	Promote greater use of the municipal dock.
6.	Promote higher density residential development, such as townhomes and condos if feasible.
7.	Zone for mixed use development with maritime commercial, entertainment, and residential components.
Transitional Waterfront, 6th Ave N to 16th Ave N	
1.	Ensure that public accessibility is maintained on the shoreline.
2.	Uses south of 14th Ave N would include higher density residential developments similar to the downtown waterfront, and commercial uses.
3.	Uses north of 14th Ave N would include water related maritime commercial uses, which would serve as a transition between residential and port activities.
4.	As a secondary use, light industrial uses, which are compatible with higher density residential development, can be accommodated north of 14th Ave
Port Waterfront, 16th Ave N to City Limits	
1.	Use existing deep water port for waterborne commerce.
2.	Uses would include industrial and other port related businesses.



1 in = 3/4 mile
 0 0.65 1.3 Miles
 Data Sources: State of MI



Base Layers

- Rivers
- Lakes

Roads

- State Trunkline
- County Primary
- County Local
- City Major
- City Minor
- Uncertified Road



Map 29: City of Escanaba, Areas of Interest



Port Waterfront



Transitional Waterfront



Downtown Waterfront

Map 30: Escanaba Waterfront Areas

The comments and input received throughout the planning process echoed public opinion received in previous planning efforts. This consistency should give City leaders a clear understanding of community priorities.

11.5 Future Public Engagement

In 2016 the City adopted a public participation plan in order to ensure that community interests continue to be included in municipal planning and actions. Public participation is also a tool to keep the public informed about local issues and concerns. A plan that reflects community needs and a well-informed public are vital to plan implementation. The following list summarizes the goals of the City's public participation plan.

- The City of Escanaba shall make participation processes accessible to anyone interested.
- The City shall seek public participation throughout the master planning process.
- The City shall strive to have a diverse group of stakeholders in planning decisions.
- The City shall encourage involvement from residents most affected by a proposed project.
- The City shall utilize as many modes of communication as possible to distribute information.
- The City shall encourage participation by making information available in a timely manner.
- The City shall record public input and make this information available to the public.
- The City shall seek to involve diverse stakeholders that are representative of the community.
- The City shall encourage improvement in the methods used to reach out to the public.



Image 11-3: Public engagement meeting, December 2015.

Chapter 12: Plan Implementation

Introduction

Throughout the preceding chapters of the plan, detailed information has been presented defining the historical trends and current situation in the City of Escanaba. This background information along with the public input has been used to develop the goals and strategies outlined below. Adherence to the implementation plan will result in progress towards the community's vision for the future (see Page 1). Changes to the community will be the incremental and should be integrated into annual capital improvement plans.

The role of the master plan has changed over the last half century. Land use regulations were initially utilized to mitigate conflicting land uses and improve urban sanitation. Shortly after federal legislation establishing the Housing and Home Financing Agency in 1947, the predecessor of the Department of Housing and Urban Development, the Housing Act of 1954 was adopted. This legislation stressed slum clearance and urban redevelopment. This act also stimulated general planning for cities under a population of 25,000 by providing funds under Section 701 of the act. The contents of many community master plans were focused on land use arrangements, future transportation corridors and street networks, and development of community facilities to handle growing population need associated with the post-war boom. Today, planning is less focused on future land use and more concerned with redevelopment and community enhancement strategies.

Plan implementation is focused on specific steps that will result in the City becoming more unified, economically viable, and regionally competitive. It should be emphasized, however, that these goals, objectives and actions are not set in stone. While the Planning Commission has developed this plan based on the best information available and the needs of the community at a point in time, changing needs and desires within the community, or changes in the local population or economy may mean that these goals, policies, and objectives will need to be re-evaluated. The plan must remain flexible enough to respond to changing needs and conditions, while still providing a strong guide for development. The Planning Commission, City Council, and City staff, together with community groups and individuals, can use this plan as a dynamic decision-making tool, and should assure that the plan is referred to frequently and updated periodically.

To assist in understanding the nature of the goals, policies, and objectives presented on the following pages, the following definitions are made:

- **Goal:** A broad statement of a desired future condition, the generalized end toward which all efforts are directed. Goals are often stated in terms of fulfilling broad public needs, or alleviating major problems.
- **Objective:** A statement of position or course of action which provides a means of obtaining a stated goal. Policies are factual in nature, and can be measured by the impact they have on existing conditions.
- **Action:** A specific attainable end derived from a related goal or policy to be accomplished within a specific time. When attained, they represent significant and measurable progress toward a goal, thus providing a means of evaluating progress.

Each strategy has an associated time frame, which serves as a benchmark for fiscal and planning purposes. The time frames for implementation are:

- Immediate (less than 2 years) - Projects and programs that usually require the effectuation of a zoning amendment, specific study, or new local legislation.
- Short Term (2-4 years) - Projects which require a greater degree of personnel commitment, local capital improvement funding, and the procurement of private or state and federal funding.
- Mid-Term (4-10 Years) - Projects or programs which have a greater degree of complexity and funding thresholds.

1. Local Economy

The economy of Escanaba and Delta County has long been dependent on natural resources, waterborne industry and manufacturing. However, these industries have shrunk and the region needs to broaden and diversify its economic base. Job growth in the region has been in sectors that offer lower wages than those in the manufacturing industry. In order to spark growth in new economy industries the region must attract and retain an educated workforce. The waterfront location and historic character of the City should be used as part of an asset-based strategy to attract visitors, residents, and businesses. In particular, the City needs to attract and retain young residents in order to sustain its economy.

Goal: Build on the unique assets of the community to grow and diversify the local economy

Objective 1.1: North Shore Waterfront Redevelopment - Diversify land uses along the industrial waterfront to accommodate public access, mixed-uses, and other waterfront related uses.

The north shore waterfront has been repeatedly identified by community members as a priority for enhanced development and redevelopment.

Community members felt that measures should be taken to identify new north shore waterfront opportunities which accommodate a diversified mix of land uses that not only enhances and preserves an industrial working port but also enhances the public enjoyment of the Bay, exposure to the working waterfront and provides opportunities for public access, open space an expanded public use. Many expressed concern that the area is underutilized and that some portions of the north shore appear to be blighted in need of clean up and better integrated into the downtown.

In 2010, the City adopted a North Shore Redevelopment Plan for the waterfront in which it identified opportunities for enhanced maritime industrial development, potential land re-purposing, increased opportunities for waterfront public access, open space and expanded public use.

Action E1: Compatible Maritime and Waterfront Uses - Seek, encourage, and foster a balance of uses and activities on the waterfront that are compatible with a working port and the broader goals of the community. Opportunities for waterside public access, open space, and the expansion of public use of the waterfront include improvements such as viewing platforms, piers, street ends, and non-motorized trails where feasible, or other physical improvements to improve the character and



Image 12-1: Escanaba waterfront along Ludington Street.

utilization of the waterfront should be explored. Develop form-based zoning standards that support waterfront redevelopment due to the irregular property line layouts.

Action E2: North Shore Property Acquisition - Should property within the near north shore zone within the downtown area become available, and should the City have an opportunity to acquire it, steps should be taken to purchase or acquire the property and work with the community and the private sector on a development and infrastructure plan which will meet the needs of maritime and recreational water dependent activities that has the potential to increase the overall economic value of the community with new investment that will stimulate the revitalization of the waterfront, provide new jobs, revenues, public amenities and other benefits to the community.

Action E3: Relocate Civic Buildings - The evolution of the waterfront from its beginning to the present reflects Escanaba's colorful history. The waterfront will always serve as a repository for memories of past events, but it must also continue to evolve so that a balance is maintained between continued maritime activities, public activities, and the unique history of the area. Over time, the Delta County Jail and Chamber of Commerce have become less than desirable uses on valuable downtown waterfront property. These facilities should be relocated to a site better suited to these uses and the two (2) properties should be repurposed for private development opportunities and new investment which has the potential to positively impact the revitalization of the downtown area, preserve the maritime water-dependent activities, provide new jobs, increase property values, and provide public amenities and other benefits to the City.

Objective 1.2 Vibrant Public Spaces - Develop and maintain places for the community to live, work, and play. Investing in public spaces to encourage greater interaction between residents and promote a healthier and more vibrant community is an approach to build communities around places which inspire people to collectively reimagine and reinvent the public spaces they share.

Action E4: "Placemaking" Asset Inventory and Assessment - The community should establish placemaking concepts and standards that promote the positive use of public space which has the potential to attract a knowledge-based industry and a talented younger workforce. In recent years the placemaking strategy has been shown to be an effective tool that and catalyst for economic development. Develop an inventory of existing public spaces and assets that capitalizes on community assets, inspiration, and potential for expansion opportunities and improvement opportunities which will contribute to the people's health, happiness, and well-being.

Action E5: Community Festivals and Events - Throughout the year, the City and Downtown Development Authority hold public events and festivals that attract residents and visitors into the downtown and waterfront area. Festivals are important because they can help the community to remember important events, bring family and friends together and educate the youth about the history and culture of the community. Continued community events which utilize City's parks, including the Municipal Dock area, should be encouraged and built upon.

Objective 1.3 Downtown/Waterfront Linkage - Create strong visual and physical connections between downtown and the waterfront. The Downtown Waterfront area has the strongest potential for mixed use redevelopment which can work in harmony with a working waterfront. The working waterfront along with the public waterfront need to be better connected to the downtown area and surrounding neighborhoods. Development standards are needed which encourage more people to stay longer and visit more often in order to grow and thrive. New development in this area should be integrated into the

character of the existing downtown and attractive to the community using “form-based” zoning standards. This would include pedestrian and non-motorized connectors and water uses that rely on the waterfront such retail development, outdoor sporting activities such as fishing and boating or similar uses.



Image 12-2: Current view of waterfront from S. 7th Street, looking north. There is no visible link to the waterfront, a visitor might not know that it is there.

Action E6: Public Access - Explore opportunities for constructing a public multi-use facility including viewing area of harbor activities as recommended in the North Shore Master Plan. Connect the viewing platform to

non-motorized network. Should the Delta County Jail property be relocated to a different location, that parcel should be developed under this concept.

Objective 1.4 Expand Use of the UP State Fairgrounds - Maximize use of the fairgrounds year-round. Collaborate with U.P. State Fair Authority Board to develop a shared vision for the future of the fairgrounds and the surrounding properties.

Action E7: Fairgrounds Expansion and Redevelopment - Develop uses which are designed to keep activity at the fairgrounds on a year-round basis. Efforts to maximize the use of the fairgrounds and their property to a year-round use would be beneficial to not only the City of Escanaba but the Upper Peninsula members which make up the Fairground Board Authority. Work with the U.P. State Fairground Authority Board to establish property uses along the commercial frontage area of the U.P. State Fairgrounds that targets developments and uses, which complement fairground activities such as restaurants, entertainment venues, museums, travel related information centers and specialty small scale, auto dependent retail uses. Work with the Delta County Chamber of Commerce on possibly relocating to this area which is a better suited site for their organizational needs.

Objective 1.5 An Attractive and Thriving Downtown - Downtown will be a thriving, vibrant commercial district. Residents have expressed a strong desire for more investment and activity in the downtown.

Action E8: Downtown Organization - The downtown should continue to be organized into functional zones in order to create a critical mass, for not only retail businesses, but for professional offices and services that support downtown living. The encouragement of retail and entertainment anchors in the downtown ties into the reorganization of the downtown in definable districts. Downtowns such as Escanaba have a difficult time competing with regional and franchise stores, but often times excel in specialty retail, restaurants, and entertainment type uses. A modification to the Zoning Ordinance encouraging the reorganization of the downtown from Ludington Park to Lincoln Road into definable districts is recommended. Zoning Ordinances should be revised to enhance street traffic by limiting non-retail first floor uses where practical. Additionally, form-based zoning standards should be adopted to reinforce desired use patterns within the downtown district. The ground floor of downtown buildings should be limited to retail uses and professional services with a retail element when located within the Central Retail District. Where possible, upper floors should be utilized for professional offices and residential units.

Action E9: Attract Anchor Businesses to Downtown - In order to encourage foot traffic and expand hours, the City in partnership with the Downtown Development Authority should encourage the development of uses and businesses that will attract people into the downtown. This could include retail, entertainment, hotel lodging, owner occupied residential uses such as condominiums and townhomes, convention center, or similar businesses that compliment and support the existing uses in downtown.

Action E10: Business Incentives - Partner with the State of Michigan in the development and creation of new incentives, such as a point-of-sale tax exemption from sales tax throughout the Downtown Development Central Retail District to encourage and attract new retail businesses to the downtown.

Action E11: Re-purpose Signature Building Space -Downtown Escanaba has building designs which are and have been a central and functional part of people’s lives for many years after they are built. Should “Signature” properties within the Downtown District become vacant and available, the City in partnership with the Downtown Development Authority, the Delta County Economic Development Alliance and the State of Michigan, should identify opportunities to reclaim and reuse the signature building to increase the overall economic value of the downtown to stimulate and revitalize the downtown.

Action E12: Evening Activity - Partner with the Downtown Development Authority on an initiative which encourages businesses to extend hours of operation to meet the needs of residents who work during the day or live in downtown Escanaba. Encourage and recruit new entertainment downtown that will draw people to the area into evening hours utilizing such structures as the former Delft Theater (907 Ludington Street), the former Michigan Theater (811 Ludington Street), the former Northern Michigan Bank (723 Ludington Street), the former Remax Building (623 Ludington Street) and the Caron property (630 1st Avenue South).

Action E13: Aesthetic Improvements - Continue to pursue opportunities to enhance the downtown streetscape including the side streets from Ludington Street to 1st Avenues North and South from 5th Street to Stephenson Avenue to reflect the vibrant heritage of this Great Lakes City. Improve safety on these local and major streets for pedestrians, bicyclists and motorists; improve movement efficiency for pedestrians, bicyclists and motorists; substantially enhance the aesthetic appeal of the streets for residents, as well as travelers and first-time visitors to the area; Improve sidewalks, crosswalks and other structures for pedestrians and bicyclists; including landscaping, lighting, and signage improvements which are in line with the Escanaba’s downtown historical designation.

Action E14: Maintain Historic Character - Utilize grants and incentive programs to encourage the maintenance and adaptive reuse of historic structures.

Action E15: Non-Motorized Infrastructure - Provide safe pedestrian crossings across Ludington Street and implement traffic calming strategies.

Action E16: Attract and Retain Young Professionals and Entrepreneurs - Market the City’s assets, such as educational system, affordability, cost of living and access to major outdoor recreational opportunities in order to attract and retain people in their prime working years. Expanding the non-motorized network and becoming a greener walkable community would also help to attract a younger workforce.

Action E17: Escanaba Heritage Walking Tour - Develop a heritage walking tour of the historic downtown area and parts of the City of Escanaba which showcase historic buildings, homes, events and landmarks that make Escanaba special.

Objective 1.6 Grow the Tourism and Recreation Sectors

- Capitalize on natural resources and local character to attract tourists year-round. Expand tourism resources, grow complementary businesses, and promote the community to attract more visitors to the community throughout the year.

Action E18: Community Marketing - Promote the City's cultural, historical and natural outdoor recreational resources. Tie marketing to programs such as the State of Michigan's Pure Michigan campaign where possible.

Action E19: Community Ambassador Programs - Recruit and train staff and volunteers at tourism related businesses to be ambassadors for the community in order to direct people to local recreational resources, outdoor activities and tourism related uses. Additionally, partner with the Delta County Chamber of Commerce, Delta County Economic Development Alliance and the Escanaba Downtown Development Authority in training local business leaders to be community ambassadors in the promotion of the City when traveling.



Image 12-3: The city has many recreational assets to attract tourists. Source: Mish Watersports.

Objective 1.7 Retrofit Outdated or Underutilized Properties - Encourage alternative uses for outdated, underutilized, or vacant structures. Underutilized commercial spaces could be revitalized through the development of new uses that would bring people and activity into commercial zones.

Action E20: Reuse Vacant Structures - Revise the Zoning Ordinance to encourage creative reuses for underutilized commercial spaces that have the potential to increase the overall economic value of the community with new investment that will stimulate the revitalization of the City, provide new jobs, revenues, public amenities, and other benefits to the community. This could include increasing density guidelines and pedestrian and green infrastructure development standards.

Objective 1.8 Brownfield Redevelopment - Utilize tax incentives to promote brownfield redevelopment. Use the incentives associated with the brownfield redevelopment program as a method to redevelop environmentally distressed sites. Use this program in conjunction with the Obsolete Property Rehabilitation Act (OPRA) to increase taxable valuation and job creation opportunities in the City. Because Escanaba is a (core) community, it should continue to use the tax abatement incentives offered through OPRA.

Action E21: Brownfield Plan Implementation - Continue to implement the City's brownfield redevelopment plan. Seek grant funding for brownfield redevelopment as needed.

Objective 1.9 Support Local Manufacturing Industry - Manufacturing business are a key component of the local economy and provide many jobs to area residents.

Action E22: Technical Assistance - Partner with the Delta County Economic Development Alliance, the Downtown Development Authority, Michigan Economic Development Corporation, Central Upper Peninsula Planning and Development organization and the Next Michigan Superior Trade Zone in providing technical assistance and support to businesses and activities that has the potential to increase the overall economic value of the community with new investment that will stimulate and revitalize the local manufacturing base.

Action E23: Workforce Development - Promote partnerships between local industry and educational institutions such as Bay College, MTECH and Escanaba Area Public Schools to ensure an adequate workforce pipeline is trained and available to support businesses and activities that have the potential to increase the overall economic value of the community, stimulate and stimulate and revitalize the local manufacturing base..

Action E24: Industry Recruitment - Partner with the Delta County Economic Development Alliance, the Downtown Development Authority, Bay College, MTECH, Michigan Economic Development Corporation, Central Upper Peninsula Planning and Development organization and the Next Michigan Superior Trade Zone to recruit new industry to the community.

Objective 1.10 Secondary Business District Development - Enhance business districts throughout the community in order to provide for a wide array of retail, office, and other commercial uses in the city.

Action E25: Regional Retail - Accommodate big box retail development in the area west of Lincoln Road between 3rd Ave and 9th Ave North.

Action E26: Next Michigan Superior Trade Zone Business Park at the Delta County Airport – The Industrial Park located at the Delta County Airport should be developed as a Next Michigan Superior Trade Zone Industrial Park which encourages a multi-model mix of uses for private development opportunities and new investment which has the potential to positively impact the manufacturing base within the community, provide new jobs, increase property values and provide public amenities and other benefits to the City of Escanaba and Delta County. A specialized form- base zoning district should be created for the purpose of accommodating multi-modal transportation, light manufacturing, research and development plants, warehousing, and similar clean industries.

Action E27: Northtown Business District Improvements - This neighborhood has an ethnic heritage that should be capitalized on. The area has a defined business district and well-maintained homes. Efforts to improve and enhance the business district should be implemented. Improvements should include the construction of an off-street public parking areas, facade updates, and standardized signage regulations.

2. Housing

The City's historic and affordable housing make home ownership in the City attainable for young families. Traditional neighborhood design makes the eastern portion of the City highly walkable. Citizens have expressed concern about the growing number of rental properties and their condition. Additionally, while there is ample supply of rental housing, much of it is unattractive for young professionals. The majority of housing in the City is detached single family housing. There is a growing market for additional types of housing including townhomes and condos.

Goal: Encourage the provision of an adequate supply of affordable, well-maintained, safe, housing that is consistent with the needs of the local population.

Objective 2.1: Expand Housing Variety. Attract new housing development that will meet the needs of a changing housing market. More housing choices will attract new residents as well as accommodate an aging population.

Action H1: Housing Variety Modifications - New Development - Housing variety modifications to the City's Zoning Ordinance should be made which encourages the development of a variety of housing types such as owner-occupied townhomes, owner-occupied condominiums and mixed uses. A variety in the housing styles will allow all age groups to find housing based on lifestyle conditions and remain in the City. The 2016 Target Market Analysis done for Delta County by Land Use USA indicates the market for single-family homes in Escanaba is saturated and that there is an unmet demand for owner-occupied townhomes, condominiums and mixed use housing units.

Objective 2.2: Protect the Character of Historic Neighborhoods. The City's historic housing stock is an asset that should be protected. The historic stock of residential structures is an asset to the community and sets it apart from the surrounding townships. Maintaining the quality and unique character of historic homes adds to Escanaba's unique sense of place and should be protected. Include schools in home tours to educate young residents about local history. Efforts to manage this unique resource should be a priority for the community.



Image 12-4: Historic homes in Escanaba.

Action H2: Asset Inventory - The City's Historic Commission should undertake a formal inventory of historic homes and structures in the community to support the development of various historic districts within the community.

Action H3: Neighborhood Historic Overlay - The area between 1st Avenue South, South 7th Street, and Lake Shore Drive should be designated as an historic overlay district, which means it poses a high concentration of historic structures deserving to be preserved for the community. The City's Historic Commission should undertake the task of creating a neighborhood historic overlay district in this area which would provide a basis for the City to manage the appearance of the exterior of new structures and significant additions to structures within this area. The overlay district would not be a local historic district, but a zoning tool used to preserve the architectural and historic integrity of the neighborhoods.

Objective 2.3: Neighborhood Enhancement - Address blight and maintain the quality and stability of residential neighborhoods. Through the public survey, residents expressed a strong desire to see the consistent enforcement of property maintenance codes to reduce blight in residential neighborhoods. In particular, the properties in the first three blocks off of Ludington Street between Ludington Street and 3rd Avenues North and South and between North and South 9th Streets to Lincoln Road are a

concern and in need of enhanced code enforcement efforts and infrastructure improvements along with the development of home ownership programs designed to increase the property values and stabilize the older traditional neighborhoods of the community.

Action H4: Neighborhood Code Enforcement - The uniform application of code enforcement activities focused on blight control and exterior maintenance of property has long term benefits for neighborhoods and the community. The key to neighborhood stability is home ownership. The application of a proactive code enforcement program will dampen the trend to convert owner occupied properties to rental properties, which tend to degrade the stability of a neighborhood.

Action H5: State and Federal Programs - The City should pursue funding and regulatory tools to address blight in the community. The HUD Neighborhood Stabilization Program exists to help stabilize communities that are struggling to maintain high levels of home ownership. Additionally, the State of Michigan also offers grants to address blight and improve the quality. Programs to improve the energy efficiency of local housing could also be a useful strategy to reduce utility consumption costs and thus improve housing affordability for low income residents.

3. Natural Features and Resources

The natural features and beauty of the area contributes to the quality of life enjoyed by local residents. Additionally, the health of the local ecosystems creates benefits enjoyed by area residents, such as a thriving walleye fishery and wildlife populations, clean beaches, clean air and beautiful scenery. The quality of the natural resources of the area also draws recreational tourists to the community.

Goal: Sustain the quality of the City's natural resources for the enjoyment of future generations

Objective 3.1: Protect the Quality of Little Bay de Noc

- Proactively manage resources to protect the quality of the Bay. The Bay is a vital asset to the region that sustains the economy and quality of life for residents. Expanding the use of green infrastructure to mitigate run-off will sustain the quality of this resource into the future.

Action N1: Green Infrastructure - Revise site development guidelines to improve stormwater management practices. Although development standards already require stormwater management, additional guidelines that encourage impervious surfaces and low-impact development practices would improve environmental sustainability.



Image 12-5: Aronson Island shoreline.

Objective 3.2: Sustain Healthy Ecosystems. Manage natural systems to promote environmental quality and sustainable economic development.

Action N2: Wetland Management - A 2008 study of wetlands in the City identified wetland areas and assessed their quality. The City should develop a formal wetland management plan to guide wetland banking and mitigation.

Action N3: Sustainable Resource Management - The integrity of forested areas owned by the City are assets that should be preserved for the enjoyment of future residents.

Action N4: Invasive Species Mitigation and Management - The City should develop a formal plan to manage invasive species in the community.

Action N5: Environmental Education - The City should partner with Bay College to develop educational resources, lectures, and events to increase public awareness of environmental and sustainability issues in the community. In the long term, this could tie into Bay College's development of a sustainability education center.

4. Land Use & Zoning

Previous plans and regulations for the City have resulted in separated land uses and auto-centric development. Due to the inertia of land use, changing the existing pattern of development to foster pedestrian scale development and economic diversity is a long term goal that will be achieved incrementally.

Goal: Land use regulations will support a wide range of development that encourages a more vibrant, sustainable, and healthy community.

Objective 4.1: Strengthen Development Standards to Promote High Quality, Sustainable Development. Community residents have expressed a desire to see the City become greener, more walkable, safer, economically diversified, and a bustling, attractive downtown commercial district.

Action L1: Zoning Revisions - Include form based or performance standards in the zoning ordinance for some of the City's land-use districts to drive development that is aligned with community goals. This could include the reduction of parking standards and lot setbacks and increasing density around downtown.

5. Community Facilities and Services

The City provides vital services that support both businesses and residents. Although the City has thus far been able to provide efficient, reliable, and safe services, investments into aging infrastructure systems are needed to ensure future use.

Goal: The City will continue to provide quality and affordable services that support economic development, public health, education, and well-being.

Objective 5.1: Ensure the Reliability, Efficiency, and Sustainability of Municipal Utilities.

Action C1: Infrastructure Funding - Continue to aggressively pursue state and federal funds to maintain the aging water, sanitary and storm water systems. Use results of SAW funded study to guide future investments.

Objective 5.2: A More Engaged Community. Encourage citizens to become more involved in community and economic development.

Action C2: Utilize Person to Person Communication - Ask people who plan on coming to public meetings to reach out and bring others along. Community leaders could hold cottage meetings to talk about a particular issue or opportunity.

Action C3: Social Media - Continue to use social media as a tool to communicate with a broad audience.

Action C4: Public Participation Plan – Educate civic leaders, business leaders and community members on the “Escanaba Community Participation Plan.”

6. Recreation

The City’s parks and recreation are highly valued by residents and contribute greatly to the quality of life in the City. Additionally, the recreation system and community events attract visitors to the City and support recreation based tourism. Continuing to invest in parks and recreation is vital to the future of the community.

Goal: Escanaba’s recreation system will enhance the enjoyment and health of residents and contribute to the unique character of the community.

Objective 6.1: Recreation Facilities will Meet Community Needs. Pursue opportunities to expand the uses of recreational facilities to more ages and abilities.

Action R1: Universal Access - improve the accessibility of recreation sites and facilities in order to meet the needs of an aging community.

Action R2: Regional Resource Coordination - Coordinate the development of recreational facilities and non-motorized paths with other communities and institutions in Delta County.

Action R3: Placemaking - As stated in Objective 1.2: Vibrant Public Spaces, Action E4 and E5. Utilize recreational and cultural resources to strengthen the City’s unique sense of place. Recruit more events in existing parks throughout the year.

Action R4: Utilize the Bay - Continue to use Little Bay de Noc and Lake Michigan as bountiful recreation resources. In addition to watersports and fishing, this also includes migratory bird fly-way viewing opportunities.

Action R5: Embrace Winter - Promote winter sports activities along the lakeshore and on the lake. Seek opportunities for winter events.

Action R6: Youth Activities - Create more recreation opportunities for both young children and teenagers. Develop indoor winter activities for pre-school age children.

Action R7: Water Access for Non-Motorized Watercraft - Provide non-motorized boat launch access for canoes, kayaks, sailboats, and other non-motorized watercraft.



Image 12-6: The pavilion at Besse Park has handicap accessible picnic tables.

Action R8: Dog Park - There is a continued popularity and routine requests to have an outside, fenced in area for a dog park that is safe and secure. A dog park should be developed in partnership with K-9 interested community members which will allow secure areas for both small and large dogs and would include features as benches, picnic tables, garbage receptacles, animal waste dispensers and potable water.

Action R9: Danforth Hill Ski Area - The Danforth Hill Ski area off of 19th Avenue North is being utilized as a temporary parking lot to gain access to the snowshoe trail and cross country ski trail loops. This area should be developed into a more permanent access point with permanent parking which includes amenities such as seating and signage. The access on North 30th Street to the snowshoe trail and loops #1 and #2 of the ski trail should be eliminated due to topographical property restraints (wetlands) and vehicle traffic safety concerns.

Action R10: Trail Connections - The community would benefit from connections to motorized and non-motorized trail networks in the region. These types of trails are shown to have many benefits, including economic development. A trail to connect central Escanaba to Bay College and to nearby communities would be an asset that would be valued by residents and tourists. Additionally, amenities, such as better signage and parking at trailheads where appropriate, would improve the use of the trail network.

As part of the City of Escanaba Non-Motorized Pathway System Master Plan, a 10' wide pathway system should be designed and engineered to include project costs for the following "missing" links:

1. Willow Creek Road between 8th Avenue South to 3rd Avenue North approximately 5,200 feet.
2. Municipal Dock to North 4th Street approximately 1,400 feet.
3. North 10th Street from 1st Avenue North to 3rd Avenue North approximately 1,400 feet.
4. 3rd Avenue North from North 10th Street to Stephenson Avenue approximately 2,700 feet.
5. Stephenson Avenue to Sheridan Road, 3rd Avenue North to 8th Avenue North approximately 2,600 feet.
6. Sheridan Road to City limit approximately 7,200 feet.
7. North 26th Street and 16th Avenue North to North 26th Street to Danforth Road approximately 1,500 feet.
8. 5th Avenue South from South Lincoln Road to Ludington Park approximately 6,200 feet.
9. Lake Shore Drive from Ludington Park to M35 approximately 11,000 feet.

Objective 6.2: Pursue Additional Funding to Support the Development and Maintenance of Recreation Sites. Utilize grants, crowdfunding, and other alternative funding sources to support the recreation system.

Action R11: Recreation Plan - the City should maintain an up-to-date DNR approved recreation plan in order to remain eligible for state funding sources.

Action R12: Community Funding - the City should explore opportunities for crowdfunding to support capital projects and a sponsorship program to help support the parks and recreation system.

7. Transportation

Escanaba is a major transportation hub for rail, road, air, and shipping networks. Reduced funding for road maintenance has affected local road quality. Community members have expressed concerns about the safety and connectivity of non-motorized networks.

Goal: Escanaba will have a safe, efficient, and sustainable transportation network that meets the needs of residents and business.

Objective 7.1: Transportation Networks Will Support Efficient Travel and Sustainable Land Use Patterns. Make improvements to the transportation system that promote safety, non-motorized connectivity, transit development, and efficient land use.

Action T1: U.S. 2/41 Plan Implementation - Continue to implement the recommendations identified in the 2009 U.S. 2/41/M-35 Access Management Plan to improve safety and pedestrian connectivity as well as the aesthetic character of the corridor.

The plan U.S. 2/41 plan prioritized actions that should be taken along the corridor to improve safety for pedestrians and bicyclists including the installation of pedestrian traffic devices, connections to non-motorized transit network, and the development of commercial clusters that are easily accessible to these types of users.



Image 12-7: Conceptual rendering from US-2/41 Access Management Plan.

Action T2: Expand the Traditional Street Grid - When new development occurs along the fringe areas of the community, the City should take the appropriate measures to extend the traditional street grid pattern into these areas. This pattern has been shown to be the most advantageous means of evenly distributing traffic within a neighborhood and community.

Action T3: Washington and Lincoln Intersection - Redesign the intersection at Washington and Lincoln Streets as a gateway to Downtown Escanaba. The project could be partially financed through MDOT.

Action T4: Danforth and Lincoln Intersection Reconfiguration - Make a geometric change in the intersection configuration at US-2 and Danforth Road to accommodate truck-turning radii, and enhance the intersection to serve as major gateway into the Escanaba community and US-2 regional business district and improve safety for pedestrians, bicyclists and motorists and improve movement efficiency for pedestrians, bicyclists and motorists.

Action T5: Railroad Viaducts - Seek funding and permission to redesign railroad viaducts along Lincoln Road to safely accommodate non-motorized users.

Action T6: Sidewalks - Expand existing sidewalk network. Create pedestrian connections between parks and recreation facilities as well different land use types.

Action T7: Pedestrian Access to Bay College - Create a safe non-motorized connection to the YMCA and Bay College Campus.

Action T8: Visual Enhancements: The 2003 U.S. 2 Corridor Visual Enhancement Plan should continue to be implemented to address safety and aesthetic issues along the route. Many of the issues and strategy in the plan are still issues of concern for area residents. The plan includes recommendations to improve the corridor, including reducing curb cuts, providing continuous sidewalks, limiting new billboards, installing distinctive streetlights and banner mounts, planting street trees, developing pocket parks at available parcels, and remove frontage parking where possible. Image 13-7 illustrates a conceptual image of what these improvements would look like.

Action T9: Construction of 9th Avenue North Connection (Between Lincoln Road and North 30th Street) – The City continues to grow to the west and very developable commercial property needs to be opened up for future larger scale commercial developments. Expansion is needed so that additional property can be developed which adequately and safely can handle increased traffic and traffic congestion away from North Lincoln Road. This is a continuation of a phased approach to construction in developing a grid of streets and utilities for future economic growth in the area. Capital improvement funds, special assessments, grant funds and State of Michigan Act 51 funds should be pursued to achieve this goal.

Action T10: Construction of North 26th Street Connection (Between 6th Avenue North and 9th Avenue North) – The City continues to grow to the west and very developable commercial property needs to be opened up for future larger scale commercial developments. Expansion is needed so that additional property can be developed which adequately and safely can handle increased traffic and traffic congestion away from North Lincoln Road. This is a continuation of a phased approach to construction in developing a grid of streets and utilities for future economic growth in the area. Capital improvement funds, special assessments, grant funds and State of Michigan Act 51 funds should be pursued to achieve this goal.



Image 12-8: Conceptual rendering from US-2/41 Visual Enhancement Plan.

Objective 7.2: Seek Alternative Funding Sources. Pursue grants and other non-traditional sources to maintain or enhance roads and non-motorized networks.

Action T11: Street Maintenance Funding

- Investigate alternative methods to fund street maintenance programs. Collaborate with other municipalities to seek funds for developing a regional non-motorized trail network.

Action T12: Corridor Improvement Authority - Institute a corridor improvement authority along U.S. 2/41, which would function similarly to a DDA to improve the functionality and business climate along the highway.

12.2 Implementation Matrix

The following table summarizes the plan implementation strategies and identifies responsible parties and timelines for action. As the goals of the plan are interrelated, many of the proposed actions support multiple objectives.

Table 12.2: Implementation Matrix			
Objective	Actions	Partners	Timeline
1.1: Waterfront Redevelopment	E1, E2, E3, E16, L1	Planning Commission, DDA, Brownfield Authority, business owners, Brownfield Authority, Delta County, MEDC, businesses	Long
1.2: Rural and Urban Spaces	E3, E6, E15, E16, L1	Planning Commission, DDA, business owners, community groups, MEDC	Immediate
1.3: Downtown Waterfront	E1, E2, E3, E6, E15, E16	Planning Commission, DDA, business owners	Medium
1.4: Land Use of Agricultural Grounds	E4	Delta County, Planning Commission	Short
1.5: Attract and Retain Downtown	E1, E2, E3, E4, E5, E6, E8, E9, E10, E11, E12, E13, E16	DDA, business owners, MEDC	Medium
1.6: Recreation Sources for Industries	E1, E16, E17, E18, E19	Delta County EDA, business owners, MEDC	Medium
1.7: Retrofit Underutilized Properties	E1, E20, E21	Planning Commission	
1.8: Brownfield Redevelopment	E1, E21	Brownfield Authority	Medium
1.9: Support Manufacturing	E22, E23, E24, E25	Delta County EDA, Dept. of Commerce EDA, MEDC, MTEC, Bay College, Michigan Works	Immediate
1.10: Secondary Business Districts	E25, E26, E27	Delta County, MDOT	Long
1.11: Land Use Planning	H1, L1	MSHDA, CUPPAD, UPCAP	Immediate
1.12: Protect Historic Resources	H2, H3	Historic Commission, Planning Commission, DDA, Delta Historic Society	Short
1.13: Resource Management	H4, H5	City Code Enforcement, UPCAP	Short
1.14: Protect the Quality of the Area	E1, N1, N2, N3, N4, N5, C1	Community Groups, Planning Commission, Public Works	Medium
1.15: Sustainable Cost-Effective	N1, N2, N3, N4, N5	Planning Commission, Community Groups	Medium
1.16: Quality Sustainable Land Use	L1, N1, H1, H3, E15, E14, E8, E4, E1	Planning Commission	Short
5.1: Ensure Reliable, Efficient, and Sustainable Transit	C1	Public Works, community partners,	
1.17: Engage Community	C2, C3, C4	Community Groups, City Commissions, City Council	Immediate
1.18: Recreation Meets Community Needs	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, T6	DNR, Recreation Advisory Board, Planning Commission	Medium
1.19: Pursue Additional Funding Sources for Recreation	R2, R11, R12	MDOT, DOT, MEDC, DNR, Community sponsors	Short
1.20: Transportation Network will Support Efficient Travel and Sustainable Land Use Patterns	T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, R10, N1	MDOT, DOT, DATA	Long
1.21: Pursue Transportation Funding Sources	T11, T12	MDOT, DOT	Short

Chapter 13: Future Land Use

Introduction

The primary goal of any Master Plan is to develop policies to guide future land use in the community. Locations of specific land uses directly effect economic growth, community character, and quality of life in a community. Map 32 identifies future land uses in the City and is intended to be a vision for the next 20 years and beyond. These proposed land uses have been determined through careful analysis of demographic and economic trends and with consideration of the public input received during the planning process. The following framework and implementation strategies identified in Chapter 12 serve as a guide for land-use management and community decision-making.

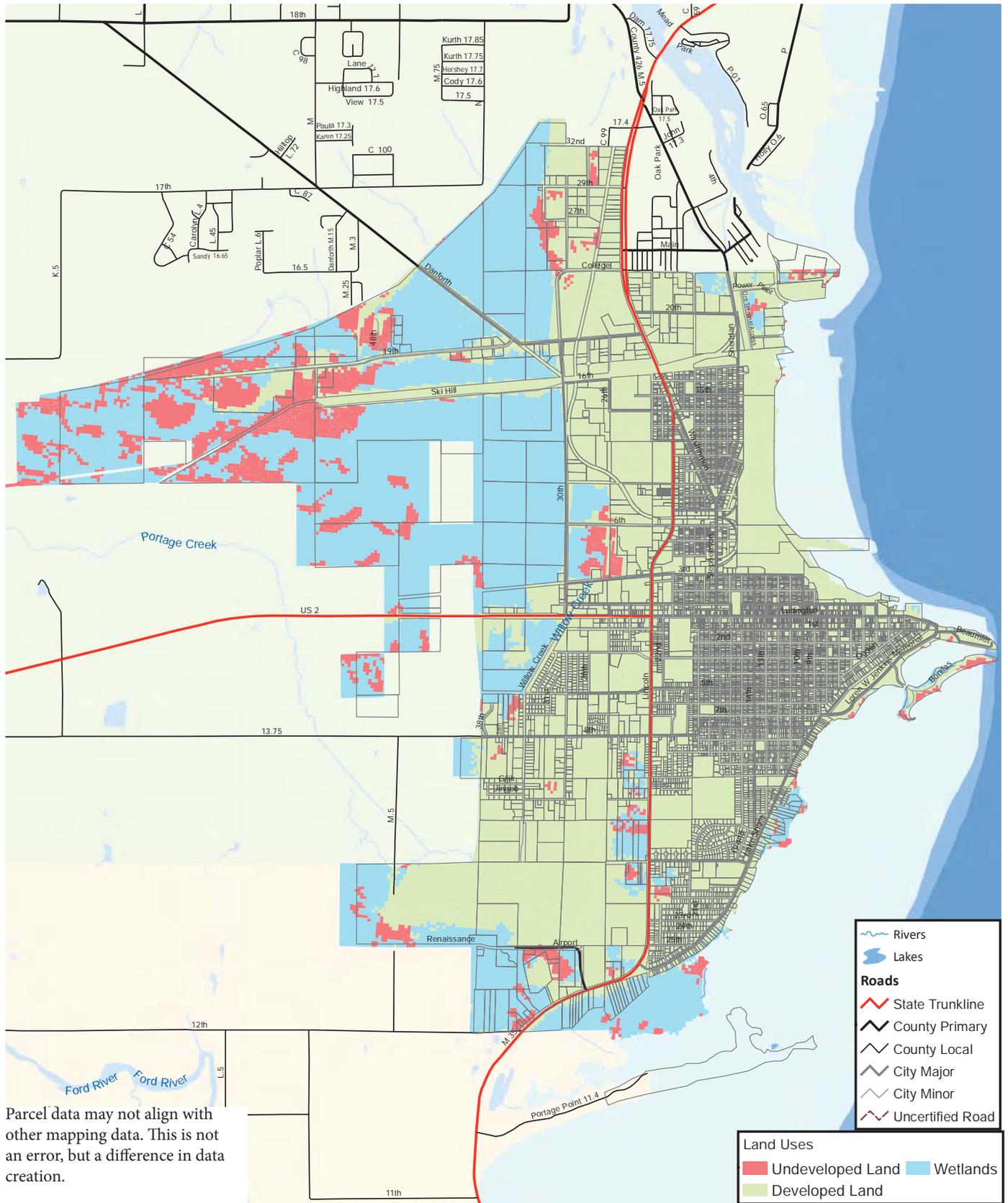
Existing Land Use

Areas for new development in the City are constrained by wetlands on the western portion of the City and Lake Michigan on the east. An assessment of the amount of undeveloped land while taking into consideration wetland areas that may limit development is shown in Map 31. Although the majority of land in the City is already developed, there are abundant opportunities for redevelopment and/or re-purposing of existing developments.

Table 13-1 Land Available for Development		
Developed Areas	4,769.9 Acres	58.2%
Undeveloped Areas	720.9 Acres	8.8%
Wetland Areas	2,697.8 Acres	32.9%



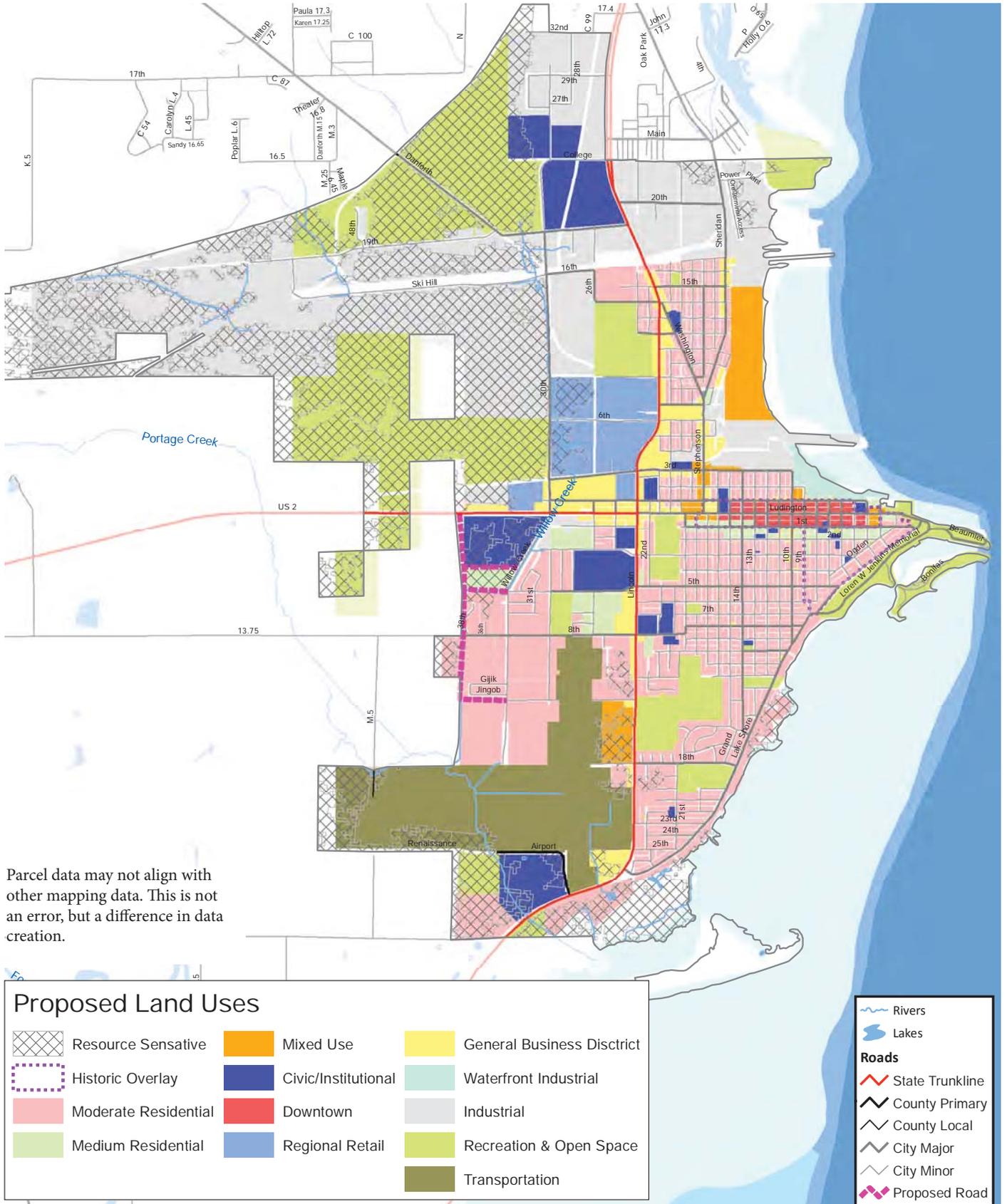
Image 13-1: View of Escanaba from Google Earth.



CITY OF ESCANABA DEVELOPED LAND, 2011



Map 31: City of Escanaba, Areas of Developable Land



Map 32: City of Escanaba, Future Land Use

13.1 Framework for Future Land Use

Residential

Residential development comprises the majority of land use in the City and will continue to do so in the future. Within this classification, categories have been defined based on density and types of uses permitted. A variety of housing in the community is needed to meet the needs of aging residents and young professionals. Furthermore, the recent economic downturn and changing demographics have changed the demand for housing.



Image 13-1 Moderate density residential neighborhood in Escanaba.



Image 13-2 Medium density development in Marquette, MI.

Moderate Density

Moderate density residential development (1-7 units per acre) is the largest land use category in the City and includes traditional residential neighborhoods. The primary land use in this category is single family-homes, but also includes duplexes. There are few undeveloped parcels within the existing residential neighborhoods for new development. New moderate density development will occur within established neighborhoods if older homes are demolished and replaced.

Medium Density

Medium density residential zones (8 or more units per acre) provides for areas of multi-family housing units such as apartments, townhouses, and condominiums. There is a need for more market rate rental units to meet the needs of young professionals and retirees moving in the City. Areas designated for medium density residential development are currently located along 1st and 2nd Avenues South and in the neighborhood located south of the high school. The future land use map proposed to expand these areas to areas adjacent to downtown. Moderate density development should be located near amenities such non-motorized pathways and shopping areas.

Commercial

Commercial development in the City is typical of many rural communities in the United States where auto-centric 'big-box' development has grown along the main highway while the downtown district has seen a decline. The City should seek to limit sprawl development while improving the quality of existing commercial areas. Residents have expressed a desire for a greater variety of shopping choices and for a more vibrant downtown. The Future Land Use Map includes three types of commercial development: a downtown, regional retail, and general business districts.



Image 13-3 Downtown Escanaba.

Downtown District

Land use guidelines in the historic commercial core of the City should promote efficient and attractive development. Maintaining a dense, walkable downtown neighborhood focuses public investment and results in a more inviting and vibrant neighborhood. Downtown land uses accommodate high density commercial and mixed use development. Planned uses in this district include, but are not limited to retail, office, entertainment, medium density residential.

However, the form and character of future development in this area should be primary concerns. Site development guidelines should include form based guidelines that include architectural guidelines and serve to maintain the character of the neighborhoods. In addition to private development, the downtown district should also accommodate public spaces, such as pocket parks.

Historic Overlay Districts

The historic downtown and residential areas of the community contribute to the unique character and sense of place of Escanaba and should be preserved whenever possible. The purpose of the overlay is to maintain the underlying land use regulations while also protecting the aesthetic character of the community. The overlay districts would work to manage the appearance of the exterior of new structures and significant additions within these areas and be a zoning tool to preserve the architectural and historic integrity of the neighborhoods.



Image 13-4: Historic homes in Escanaba

In the downtown area the historic overlay would correspond to the historic district that was added to the National Historic Register in 2014 generally located along Ludington Street from the 200 to 1800 blocks.

The residential overlay district would be located generally between 1st Avenue South, South 7th Street, and Lake Shore Drive where there is a high concentration of historic homes.

Regional Retail

The U.S. 2/41 corridor provides a location for large commercial land uses, including supermarkets, hotels, car dealerships, and other large retail stores. This area attracts people from outside the City of Escanaba. This area will remain an appropriate place for this type of commercial land use in the future.



Image 13-5: Regional retail.

While this district is a highly trafficked commercial area, there are large, underutilized properties in decline and may have outlived their intended use. Many residents expressed a desire to see the demolition or re-purposing of these spaces. Large underutilized spaces in this area could be retrofitted to accommodate new uses.



Image 13-6: U.S. 2/41 Corridor.

Additionally, there is limited pedestrian and bicycle connectivity between residential neighborhoods and the existing commercial development along U.S. 2/41 as the highway is a significant barrier to non-motorized travel. Although there are sidewalks along the corridor, the multitude of driveways and volume of traffic, make the road unsafe for non-motorized users. Site development requirements for large commercial uses should incorporate non-motorized infrastructure.

Mixed Use

Since the mid-20th century it has been common planning practice to regulate the development of land by use. While the intention of separating land uses was to keep pollution or noisy uses from becoming a nuisance to residents, the result has been the development of low-density sprawl. Conversely, districts that incorporate a variety of compatible uses, create more vibrant and sustainable neighborhoods, and may be more attractive to retirees and young professionals moving into the area. Mixed use areas also create more pedestrian activity throughout the day, support the development of transit networks, and foster a stronger sense of place in the community.



Image 13-7: Mixed Use Development in downtown Escanaba.

Mixed use development is suitable for areas adjacent to downtown and would help to increase pedestrian activity in this area. In the long term, mixed use development would be ideally located along the northern lakeshore. As long as the scale of the development is appropriate, mixed use developments could be used as a transition zone between dense commercial areas and residential zones.

General Business District

The purpose of areas designated as local business district is to accommodate a wide range of retail, office, and service uses that are compatible with residential neighborhoods. This land use type exists

within the fabric of a traditional residential neighborhood and serves as a transition between residential areas and more intensively developed zones.

Industrial

The State of Michigan has undergone an economic transition away from manufacturing. Although the number and quality of industrial, skilled trades jobs have been in decline, it is likely the industry will remain important to the economy of the area for the foreseeable future. However, in order to foster greater economic resilience, community leaders should seek other types of land uses for some of the existing industrial areas that would provide for land uses that diversify the local economy. The community has repeatedly expressed a desire to see non-industrial uses on the waterfront that would allow for more public access and attract more people to the area. The shrinking coal economy may result in new opportunities for non-industrial uses on the waterfront.

The Future Land Use Map does not include the addition of new areas for industrial use in the City. Areas identified for industrial use are those that are already zoned as industrial in the City's Zoning Map. Areas for industrial land use are located on the northern shoreline of Escanaba from 14th Avenue North, areas adjacent to downtown, and the industrial areas on the northern side of the City. The City should encourage industrial development within these designated areas to ensure other industrial sites do not develop in areas which are designed for less intensive uses. Vegetated buffers should be used to minimize land use conflicts between industrial and non-industrial land uses.



Image 13-8: Existing waterfront adjacent to downtown.

Waterfront Industrial

The portion of waterfront industrial development closest to downtown is an area that is a redevelopment priority for residents. Development regulations in this area should include standards that serve the whole community. Site development and building form guidelines that improve the character of this area and create stronger connections between the waterfront and downtown. Views of a working waterfront will attract people into the community and requirements should be established for public access.

Institutional/Civic

These two future land use categories are combined due to the similar nature of each. Churches, schools, and community facilities fall in these categories. The future land use plan does not designate new locations for these land uses due to the nature in which they develop. As new churches or public facilities are needed, an evaluation should be done to determine the best location in order to safely serve the greatest numbers of residents. Areas of the community that are currently used for these functions will remain for similar uses in the future.



Image 13-9: Ludington Park.

Recreation & Open Space

The parks and open green spaces of the community are valuable to residents and will remain an important land use in the City into the future.

A future recreational area may be developed at the current site of the Delta County Landfill following its termination as an active dumping site. Of course, proper landfill closing procedures would need to be implemented to ensure safety of the site, but this large tract of land may become a very usable recreation site for future residents and would connect to existing recreation areas.



Image 13-10: Portage Marsh.

Resource Protection Overlay

The purpose of a resource protection overlay district is to manage development in environmentally sensitive areas. Since the City includes coastal and/or wetland zones, including additional restrictions in these areas would serve to promote environmental sustainability. Areas appropriate for development that lie within sensitive environmental areas should be undertaken using conservation design standards, transfer of development rights program designs, or low-impact performance standards.

An inventory and assessment of wetlands in the community was completed in 2008. However, the City does not have a formal wetland management plan.



Image 13-11: Port of Escanaba.

Transportation

Escanaba is a multi-modal transportation hub in the region, where shipping, rail, air, and road networks meet. Areas of the City that support these land uses will continue to be necessary and vital in the future. However, changes to the existing transportation network could be made in order to improve connectivity and safety.

The existing road network could be improved by continuing to expand the traditional street grid. Land should also be dedicated to improve non-motorized travel within the City and to nearby communities. The Future Land Use Map indicates proposed motorized and non-motorized connections to local road network could be improved

Currently, large areas of land in the City are dedicated to railroad trackage. If areas of track should be abandoned in the future, the City should seek to acquire these areas and utilized them as non-motorized paths.

The Delta County Airport is included as a transportation land use. However, the airport area also includes the Escanaba Renaissance Zone that accommodates light industrial uses.

Relationship Between Existing Zoning and Future Land Use

The City’s Zoning Ordinance codifies the land use goals and objectives of the Master Plan in order to regulate development. Zoning ordinances should be based on the future land use descriptions and the Future Land Use Map. Additionally, the land use descriptions and map should be considered in the context of the entire plan. The map is not an enforceable document, rather it describes an ideal scenario for future development.

The following table lists future land use categories and their corresponding existing zoning districts. The majority of proposed land uses are contained within the existing zoning districts. The ordinance would need to be amended to include the proposed waterfront industrial and historic and resource sensitive overlay districts. Additional planning will need to be done to determine the exact locations for the overlay.

Table 1: Future Land Use and Zoning		
Future Land Use Category	Description	Zoning District
Moderate Residential	Traditional neighborhood design	A, B
Medium Residential	Higher density housing that includes apartments, townhouse, and condo development	C, C-2
Downtown District	Includes a wide range of uses, maintains form of traditional downtown	D, E-1
Historic Overlay	Design standards that preserve historic character	
Regional Retail	Auto-centric commercial development	E
Mixed Use	Residential and commercial uses	E-1
General Business District	Transition or neighborhood commercial development	D
Industrial	Areas for manufacturing, processing, and other uses that may create negative impacts for adjacent land uses	F, F1, G
Waterfront Industrial	Areas for light industrial use that include enhanced site development and building form standards	
Institutional/Civic	Government, school, and church development	A, B, C, E, E-1, E-2, F, F-1
Recreation & Open Space	Areas designated for public recreation or to remain undeveloped	OS
Resources Sensitive Overlay	Areas of special environmental significance	RS
Transportation	Areas dominated by transportation infrastructure	

Additionally, it is recommended that the waterfront industrial and downtown areas include development guidelines that maintain or enhance the aesthetic character of the area. The planning commission should consider utilizing a form-based code for these areas in order to get the types of development most desired by the community in these areas.

13.2 Conclusion

Planning is intended to guide the forces of change in ways that encourage desirable outcomes by striking an appropriate balance with development and preservation. Planning is only the first step towards achieving the vision for the future developed by the community. The Master Plan should be reviewed on a yearly basis, and amending the plan as necessary will maintain its use as a reliable planning tool. State law requires that the Master Plan be reviewed every five years to determine if updating is necessary. The City's Zoning Ordinance is a tool to implement many of the strategies identified through the planning process. The next step in achieving the community vision is to update the Zoning Ordinance so that it is aligned with the new Master Plan.

As the developers and most frequent users of this document, the Planning Commission will be responsible for reviewing the objectives and progress of the Master Plan. Amendments that should occur include:

- Noting goals and objectives that have been accomplished.
- Adding new objectives as needs and desires arise.
- Modifying the Future Land Use Map to reflect any zoning decisions that have changed the direction of development in the City.



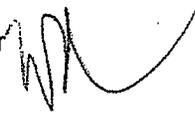
Image 13-12: Downtown Escanaba



Image 13-13: Ludington Park.

NB #1
CC 10/6/16

MEMORANDUM

TO: James O'Toole, City Manager
FROM: Bill Farrell, City Engineer 
DATE: 9/19/16
RE: Draft Right of Way Abandonment Policy

Over the last several months, the City of Escanaba has been working on drafting a policy for abandoning City owned and controlled Right of Way. This policy is a product of researching what other communities are doing it, legal review from Ralph Peterson and an attempt to come up with a process that is straightforward and in line with other City Process.

Please see the attached draft policy and petition. I request that this policy go before Council at the October 6 meeting.

City of Escanaba Policies and Procedures

Originator: City Manager's Office/City Council

Date: October 6, 2016

Subject: Abandonment of Right-of-Way Policy #10616-01

CROSS REFERENCE: The City of Escanaba has the authority pursuant to MCL S224.18, MSA A9.118, MCL 117.4 (h)1 and City Charter Chapter XII Section 1, to absolutely abandon all or part of the City right-of-way.

PURPOSE: Any request for abandonment must be heard at a properly advertised public hearing before the City Council. Please allow adequate time for the departmental review and scheduling for the public hearing at the City Council meeting. The submittal of an application for a public right-of-way abandonment does not entitle you to the abandonment.

The following procedure shall be followed in order to abandon all or part of a City right-of-way:

I. REQUEST FOR ABANDONMENT

Upon receipt of the application, all attachments, and cost recovery fee, the City will review the request and determine if the property is needed for City purposed and if it meets all development, emergency access and street construction rules and regulations. Upon recommendation, a notice will be published setting forth the date and time of the public hearing. The petitioner and/or his agent will be required to attend this public hearing in order to answer any questions the Council may have.

II. CRITERIA CONSIDERATION

The City Council will review and consider the request for abandonment based on the following criteria:

- a. Whether the proposed abandonment will adversely affect the operations and function of the City.
- b. Whether the proposed abandonment will adversely affect public access to and from the water.
- c. Whether the proposed abandonment will adversely affect pedestrian or vehicular traffic, or the commercial viability of business within three hundred (300) feet of the right-of-way to be abandoned.
- d. Whether the proposed abandonment will adversely affect a public view corridor.
- e. Whether the proposed abandonment will deprive other property owners or access to and from their property.
- f. Whether the proposed abandonment will interfere with utility services being provided, or unreasonably affect any utility easement.

III. PETITION REQUEST SUBMISSION

An Abandonment Agreement of Understanding, sealed copy of the metes and bounds description of the public right-of-way, a Plat of Detailed sketch of the Public Right of Way sought to be abandoned, along with a non-refundable abandonment administrative processing fee shall be submitted to the City Engineer.

- a. The petition shall describe the City's right-of-way in general terms or by any name by which it is known and shall specifically describe that portion which the petitioners seek to have abandoned.
- b. The petition shall be signed by all abutting property owners (or occupants if there are structures).
- c. The petition shall be accompanied by a true and correct list of the names and mailing addresses of the occupants and owners of each parcel abutting the right-of-way or portion to be abandoned. The list must state descriptions of the parcels. The list shall be certified to (under oath) by one of the petitioners.
- d. The petition shall be accompanied by a fee to cover the incurred expense by the City. Refer to the Permit Fee Schedule for the fee amount.

IV. ABANDONMENT PROCESS

Abandonment of a right of way requires the City Council make a finding of one of the following with respect to the right of way in question:

- a. That no substantial public service is served by it; or,
- b. That the removal of the right of way is in the best interest of the City.

If the petition for abandonment contains the signatures of all abutting property owners, the City of Escanaba City Council shall, within forty-five (45) days after receiving same, either grant or deny the petition without further proceedings thereon.

If the petition for abandonment does not contain the names of all of the abutting property owners, the City shall:

- a. Issue a written notice stating the object of the petition and appointing a time and place for a public hearing.
- b. Service notice, by first class mail, upon the owners and occupants of the land at least ten (10) days prior to the hearing. If the owner does not reside upon the land or cannot be found, a notice to owners shall be published in the local newspaper ten (10) days before the time of the hearing and that shall serve as record of notice.

Prior to abandoning the right-of-way or portion, The City Engineer shall coordinate with all other City departments and all other public utility operators to identify any utilities that would be affected by the abandonment described in the petition and shall report all findings of fact to the City Manager.

The City of Escanaba City Council shall determine, at the time of the passage of any resolution abandoning the right-of-way, if the abandonment is in the best interest of the public.

The vote of the City of Escanaba City Council in respect to such a determination shall be taken. The vote shall be entered at large on the City Council's records. Any abandonment request that is denied by the City Council may not be resubmitted for a period of twenty-four (24) months following the date of the denial.

The City of Escanaba City Council shall cause a true copy of the resolution, which shall contain an accurate description of the lands so abandoned, to be recorded in the office of the Delta County Registrar of Deeds.

Notice of the City of Escanaba City Council's determination shall be published in the local newspaper in each week for three (3) successive weeks. An affidavit of publication shall be filed with the City of Escanaba's City Clerk.

NOTES:

- The City of Escanaba City Council may reserve an easement for public utility purposes within the right-of-way of any road abandoned and may extinguish an easement so reserved whenever it ceases to be used for public utility purposes.
- If the abandonment results in a right-of-way becoming a dead end, the City of Escanaba City Council as a condition to granting the abandonment, may request that enough land to construct a turn-around be granted to the City of Escanaba.
- If the right-of-way in a platted area falls within 82.5 feet of a body of water, the request to abandon must go through Circuit Court – The City of Escanaba cannot abandon a platted right-of-way within 82.5 feet of a body of water.
- The City of Escanaba City Council has no jurisdiction over private right-of-ways in plats.
- Additional requirements may be instituted as necessary, including but not limited to, the installation of a fire hydrant.

**CITY OF ESCANABA
RIGHT-OF WAY ABANDONMENT
AGREEMENT OF UNDERSTANDING**

Point of Contact Name: _____

Mailing Address: _____

Phone: _____ *E-Mail Address:* _____

Such public right-of-way/easement should be abandoned because:

Such public right-of-way/easement has been and is being used as follows:

The following property owners have parcels that adjoin to public right-of-way:

They hereby indicate, by signature, that they agree with the proposal to abandon that right-of-way. They further understand that once abandoned, a portion of that right-of-way becomes their property. The owners will then be responsible for maintenance and any additional property taxes that may result from the increase in the size of their original parcels.

I understand the statement above and agree with the proposed abandonment.

Property Owner Name: _____
Address: _____
Signature: _____ Tax Code Number: _____
Property Owner Name: _____
Address: _____
Signature: _____ Tax Code Number: _____
Property Owner Name: _____
Address: _____
Signature: _____ Tax Code Number: _____

Property Owner Name: _____ Address: _____ Signature: _____ Tax Code Number: _____
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Property Owner Name: _____ Address: _____ Signature: _____ Tax Code Number: _____

NB#2
CC 10/6/16

MEMORANDUM

September 19, 2016

TO: James V. O'Toole, City Manager
FROM: Larry Gravatt, Harbor Master
Bob Valentine, City Treasurer
SUBJ: Marina Loan Consolidation and Refinancing Consideration

Administration is requesting Council approval to refinance two (2) outstanding marina loans, by combining the two loans into a single loan, amortized over 15 years at a rate of 3%.

The 1999 construction loan currently has a balance of \$214,200, and is scheduled to fully amortize in 2027, and carries a rate of 5%. The 2011 dock loan has a balance of \$46,114, and is scheduled to fully amortize in 2025, with a rate of 4%.

By internally refinancing and combining the loans, \$11,000-12,000 will be freed up in the Marina Fund in the near term. Additionally, in refinancing and combining the existing loans a more reasonable interest rate is being recommended. At the time the two (2) existing loan were established there were higher rate expectations for market rates

Attached is a worksheet with the amortization schedules for the existing loans along with the proposed new loan.

CITY OF ESCANABA
Land Development - Loans to Marina Fund

u:\123R3\MARINA\LandDevLoanCombined

Fiscal Year Ended	1999 Construction Project Loan 06/07 Refinance) Loan #1				2011 L-Dock Loan Loan #2				Both Loans				
	Payment	Interest	Principal	Balance	Payment	Interest	Principal	Balance	Payment	Interest	Principal	Balance	
06/30/2012	\$24,960.00	\$13,960.00	\$11,000.00	\$268,200.00	\$3,254.67	\$1,296.44	\$1,958.23	\$63,041.77	\$28,214.67	\$15,256.44	\$12,958.23	\$331,241.77	\$65,000.00
06/30/2013	25,410.00	13,410.00	12,000.00	256,200.00	6,509.34	2,521.67	3,987.67	59,054.10	31,919.34	15,931.67	15,987.67	315,254.10	
06/30/2014	25,810.00	12,810.00	13,000.00	243,200.00	6,509.34	2,362.16	4,147.18	54,906.92	32,319.34	15,172.16	17,147.18	298,106.92	
06/30/2015	26,160.00	12,160.00	14,000.00	229,200.00	6,509.34	2,196.28	4,313.06	50,593.86	32,669.34	14,356.28	18,313.06	279,793.86	
06/30/2016	26,460.00	11,460.00	15,000.00	214,200.00	6,509.34	2,029.30	4,480.04	46,113.82	32,969.34	13,489.30	19,480.04	260,313.82	12/31/2011
06/30/2017	26,710.00	10,710.00	16,000.00	198,200.00	6,509.34	1,844.55	4,664.79	41,449.03	33,219.34	12,554.55	20,664.79	239,649.03	4.00%
06/30/2018	26,910.00	9,910.00	17,000.00	181,200.00	6,509.34	1,657.96	4,851.38	36,597.65	33,419.34	11,567.96	21,851.38	217,797.65	\$65,000
06/30/2019	27,060.00	9,060.00	18,000.00	163,200.00	6,509.34	1,463.91	5,045.43	31,552.22	33,569.34	10,523.91	23,045.43	194,752.22	14
06/30/2020	27,160.00	8,160.00	19,000.00	144,200.00	6,509.34	1,265.55	5,243.79	26,308.43	33,669.34	9,425.55	24,243.79	170,508.43	
06/30/2021	27,210.00	7,210.00	20,000.00	124,200.00	6,509.34	1,052.34	5,457.00	20,851.43	33,719.34	8,262.34	25,457.00	145,051.43	
06/30/2022	27,210.00	6,210.00	21,000.00	103,200.00	6,509.34	834.06	5,675.28	15,176.15	33,719.34	7,044.06	26,675.28	118,376.15	
06/30/2023	27,160.00	5,160.00	22,000.00	81,200.00	6,509.34	607.05	5,902.29	9,273.86	33,669.34	5,767.05	27,902.29	90,473.86	
06/30/2024	27,060.00	4,060.00	23,000.00	58,200.00	6,509.34	371.97	6,137.37	3,136.49	33,569.34	4,431.97	29,137.37	61,336.49	
06/30/2025	26,910.00	2,910.00	24,000.00	34,200.00	3,261.95	125.46	3,136.49	0.00	30,171.95	3,035.46	27,136.49	34,200.00	
06/30/2026	26,710.00	1,710.00	25,000.00	9,200.00	0.00	0.00	0.00	0.00	26,710.00	1,710.00	25,000.00	9,200.00	
06/30/2027	9,660.00	460.00	9,200.00	0.00	0.00	0.00	0.00	0.00	9,660.00	460.00	9,200.00	0.00	
	<u>\$408,560.00</u>	<u>\$129,360.00</u>	<u>\$279,200.00</u>		<u>\$84,628.70</u>	<u>\$19,628.70</u>	<u>\$65,000.00</u>		<u>\$493,188.70</u>	<u>\$148,988.70</u>	<u>\$344,200.00</u>		

Refinancing Consolidation Loan Eff 7/1/2016
Balances From Existing Loans Are Combined @ 3.00%

Year End	Payment	Interest	Principal	Balance	Old Pmt	Savings
6/30/2016	starting balance			260,313.82		
6/30/2017	21,805.60	13,996.19	7,809.41	246,317.63	33,219.34	11,413.74
6/30/2018	21,805.60	14,416.07	7,389.53	231,901.56	33,419.34	11,613.74
6/30/2019	21,805.60	14,848.55	6,957.05	217,053.01	33,569.34	11,763.74
6/30/2020	21,805.60	15,294.01	6,511.59	201,759.01	33,669.34	11,863.74
6/30/2021	21,805.60	15,752.83	6,052.77	186,006.18	33,719.34	11,913.74
6/30/2022	21,805.60	16,225.41	5,580.19	169,780.77	33,719.34	11,913.74
6/30/2023	21,805.60	16,712.18	5,093.42	153,068.59	33,669.34	11,863.74
6/30/2024	21,805.60	17,213.54	4,592.06	135,855.05	33,569.34	11,763.74
6/30/2025	21,805.60	17,729.95	4,075.65	118,125.10	30,171.95	8,366.35
6/30/2026	21,805.60	18,261.85	3,543.75	99,863.25	26,710.00	4,904.40
6/30/2027	21,805.60	18,809.70	2,995.90	81,053.56	9,660.00	-12,145.60
6/30/2028	21,805.60	19,373.99	2,431.61	61,679.57	0.00	-21,805.60
6/30/2029	21,805.60	19,955.21	1,850.39	41,724.36	0.00	-21,805.60
6/30/2030	21,805.60	20,553.87	1,251.73	21,170.49	0.00	-21,805.60
6/30/2031	21,805.60	21,170.49	635.11	0.00	0.00	-21,805.60
	<u>327,083.98</u>	<u>260,313.82</u>	<u>66,770.16</u>		<u>335,096.67</u>	<u>8,012.69</u>

CITY OF ESCANABA

2016-2017 Marina Fund Budget Request Workpaper

Fund Number 250

MARINA FUND-INCOME STATEMENT

REVENUES		Actual	Actual	Estimate	Budget	Budget	\$ Change	% Change
Account Number	Revenue Source	2013-14	2014-15	2015-16	2015-16	2016-17	Col. 5-Col. 4	Col. 5-Col. 4
250-000-650-000	Dock Fees	131,013	133,831	130,000	130,000	130,000	0	0.00%
250-000-650-200	Fuel/Oil Sales	57,391	63,019	77,000	77,000	75,000	(2,000)	-2.60%
250-000-650-300	Ice Sales	242	446	400	500	400	(100)	-20.00%
250-000-650-400	Sanitary Pump-Outs	655	785	800	750	750	0	0.00%
250-000-650-550	Miscellaneous	60	1,035	850	500	500	0	0.00%
250-000-650-600	Cable	660	75	100	500	100	(400)	-80.00%
250-000-650-700	Transient Fees	20,576	18,006	22,000	20,000	20,000	0	0.00%
250-000-650-800	Dock Box/Bike Rentals	900	300	0	500	250	(250)	-50.00%
250-000-675-030	MarinaFest	0	0	2,300	1,200	2,000	800	66.67%
250-000-681-000	Insurance Reimbursements	0	2,523	0	0	0	0	0.00%
250-000-696-100	Discount/Credit Card Revenue/Expense	(2,900)	(3,141)	(3,000)	(3,000)	(3,000)	0	0.00%
250-000-699-XXX	Contributions from Other Funds	4,177	4,000	0	0	0	0	0.00%
OPERATING REVENUES		212,774	220,879	230,450	227,950	226,000	(1,950)	-0.86%
OPERATING EXPENDITURES		236,534	235,617	237,700	243,466	239,998	(3,468)	-1.42%
NET OPERATING INCOME		(23,760)	(14,738)	(7,250)	(15,516)	(13,998)	1,518	-9.78%
250-000-578-000	State Grants	0	0	0	0	0	0	0.00%
250-000-603-000	Gain/(Loss) on Investments	16	38	0	0	0	0	0.00%
250-000-665-000	Interest Earnings	1,168	559	800	500	800	300	60.00%
250-544-964-000	Interest Expense	(15,172)	(14,356)	(13,500)	(13,500)	(12,600)	900	-6.67%
250-544-989-000	Loss on Sale of Equipment	0	0	0	0	0	0	0.00%
NET INCOME		(37,748)	(28,497)	(19,950)	(28,516)	(25,798)	2,718	-9.53%

CITY OF ESCANABA

2016-2017 Marina Fund Budget Request Workpaper

Fund Number 250

Activity Number

544

REQUEST FOR CAPITAL EXPENDITURES

Description of Request	Actual	Actual	Estimated	Budget	Request	Recommended	Final	\$ Change	% Change
	2013-14	2014-15	2015-16	2015-16	2016-17	2016-17	2016-17	Col. 7-Col. 4	Col. 7-Col. 4
Sidewalk Replacement	20,827	0	20,000	20,000	0	0	0	(20,000)	-100.00%
TOTAL ACTIVITY REQUEST	20,827	0	20,000	20,000	0	0	0	(20,000)	-100.00%

CITY OF ESCANABA

2016-2017 Marina Fund Budget Request Workpaper

Fund Number **250**

Activity Number

544

REQUEST FOR SUMMER SERVICES

	Actual 2013-14	Actual 2014-15	Estimate 2015-16	Budget 2015-16	Request 2016-17	Recommended 2016-17	Final 2016-17	\$ Change Col. 7-Col. 4	% Change Col. 7-Col. 4
Description of Request									
Harbormaster				24,998	25,485	25,485	25,485	487	1.95%
Seasonals				26,015	27,132	27,132	27,132	1,117	4.29%
Public Works Pool (Included in -931-000 & -931-350)				0	0	0	0	0	0.00%
702 Salaries and Wages	51,545	51,557	51,000	51,013	52,617	52,617	52,617	1,604	3.14%
711 Overtime Wages	1,014	826	1,000	1,000	1,000	1,000	1,000	0	0.00%
712 Overhead on Salaries and Wages	14,553	15,200	15,000	15,153	15,131	15,131	15,131	(22)	-0.15%
713 Life & Hospital Insurance	0	0	0	0	0	0	0	0	0.00%
723 Fuel(Cost of Sales)	51,034	62,594	70,000	70,000	70,000	70,000	70,000	0	0.00%
726 Supplies(Misc)	860	1,446	1,000	1,000	1,600	1,600	1,600	600	60.00%
726 -600 Cable TV	862	876	1,000	1,000	1,000	1,000	1,000	0	0.00%
726 -850 Bike Rental	60	56	200	200	200	200	200	0	0.00%
727 Office Supplies	531	124	100	100	100	100	100	0	0.00%
740 Building Supplies	636	1,058	1,200	1,000	1,200	1,200	1,200	200	20.00%
744 Clothing Supplies	151	207	0	200	0	0	0	(200)	-100.00%
Audit				550	550	550	550	0	0.00%
801 State of Michigan - Fuel Storage				200	200	200	200	0	0.00%
Professional Services	702	750	750	750	750	750	750	0	0.00%
850 Telephones	1,289	1,312	1,200	1,200	1,200	1,200	1,200	0	0.00%
860 Travel Expenses, Auto Allow	0	0	0	300	300	300	300	0	0.00%
MarinaFest				1,000	1,000	1,000	1,000	0	0.00%
885 Public Relations/Promotions	0	2,523	1,000	1,000	1,000	1,000	1,000	0	0.00%

CITY OF ESCANABA

2016-2017 Marina Fund Budget Request Workpaper

Fund Number **250**

Activity Number **544**

REQUEST FOR SUMMER SERVICES

Description of Request	Actual 2013-14	Actual 2014-15	Estimate 2015-16	Budget 2015-16	Request 2016-17	Recommended 2016-17	Final 2016-17	\$ Change Col. 7-Col. 4	% Change Col. 7-Col. 4
900 Printing and Publishing	134	0	0	100	100	100	100	0	0.00%
910 Insurance & Bonds	5,336	4,537	4,750	5,500	5,000	5,000	5,000	(500)	-9.09%
920 Public Utilities	10,150	9,950	10,000	12,000	10,000	10,000	10,000	(2,000)	-16.67%
931 Normal Repairs to Structures	3,917	3,331	6,000	6,000	6,000	6,000	6,000	0	0.00%
931 -350 Weed Management	16,845	10,428	11,000	15,000	11,000	11,000	11,000	(4,000)	-26.67%
932 Repair to Equipment	2,084	3,691	2,500	1,500	2,000	2,000	2,000	500	33.33%
Crane Rental				800	800	800	800	0	0.00%
Porta-Potty				750	750	750	750	0	0.00%
City Equipment-Misc.				900	1,450	1,450	1,450	550	61.11%
943 Rental of Equipment	4,618	4,959	3,000	2,450	3,000	3,000	3,000	550	22.45%
958 Memberships & Dues	0	0	0	0	0	0	0	0	0.00%
960 Education & Training	0	0	0	0	0	0	0	0	0.00%
968 Depreciation Expense	68,692	58,650	57,000	57,000	56,000	56,000	56,000	(1,000)	-1.75%
976 Cap Outlay-Building Improve	0	0	0	0	0	0	0	0	0.00%
977 Commercial Grade Mower Capital Outlay-Equipment	1,521	1,542	0	0	800	800	800	800	NEW NEW
979 Books, Magazines & Periodicals	0	0	0	0	0	0	0	0	0.00%
TOTAL ACTIVITY REQUEST	236,534	235,617	237,700	243,466	239,998	239,998	239,998	(3,468)	-1.42%

NB #3

CC 10/6/16

9/19/2016

To whom it may concern-

The Upper Peninsula Down Syndrome Association, a 501c3 organization based out of Escanaba would like to request to be on your city meeting agenda for October. We request to have the city declare us as a recognized non profit doing business in the city of Escanaba.

This is requested so that UPDSA can conduct a raffle at our yearly event, which is the only fundraiser UPDSA puts on, called Buddy Walk®.

Thank you-
Lourie Schuenke
UPDSA President/Co-founder
906-233-1482
P.O. Box 843
Escanaba, MI 49829
facebook.com/UPDSA

To whom it may concern-

The Upper Peninsula Down Syndrome Association is a non profit providing services across the Upper Peninsula. We are a support group for parents and caregivers of children any age with Down syndrome and their families. UPDSA meets the second Saturday of each month at the Early Childhood Center located in Escanaba.

UPDSA also works with hospitals across the Upper Peninsula to be put into contact with new parent/s. UPDSA delivers an "Educational Welcome Basket" to both new families and families who are new to the area.

UPDSA strives to increase awareness and inclusion in our community and provides free public awareness events throughout the year. Events such as a World Down Syndrome Day Celebration on March 21st each year, a Summer picnic in August, Back to School party in September and a Christmas party in December.

In the month of May, we host our "UPDSA Family Weekend", which we rent and utilize the facilities of Bay Cliff Health Camp in Big Bay. This weekend provides everyone a fun family camping type experience with other families across the UP who have a member who has Down syndrome. We also provide a day of parent trainings, during which we have multiple activities for the children and their siblings put on by volunteers, typically from NMU's nursing program.

UPDSA has one fundraiser each year called a "Buddy Walk", which is an awareness walk that takes place worldwide. Buddy Walk was developed by the National Down Syndrome Society in 1995 to celebrate Down Syndrome Awareness Month in October and to promote the acceptance and inclusion of people with Down syndrome. This is a family friendly event with activities for children, and adults alike, and participants are encouraged to participate in a one mile awareness walk.

In the past UPDSA has also participated in the Gladstone 4th of July Parade, even winning 1st prize with our "Super Hero Float" in 2014. UPDSA has also participated in the Rapid River Memorial Day Parade. In the "Rock the Dock" event's opening year UPDSA participated with the Escanaba Cross Country team operating a dunk tank with funds going to help the team pay for busing.

UPDSA is also a sponsor and supporter of the "Walk in the Park for Brain Tumor Research" as well as the "U.P. Pink Power 17 mile walk-a-thon for AED's".

As of recently UPDSA has also become a member of the Delta County Chamber of Commerce. We are a community organization and hope to continue to grow our programs and events in the future as we continue to support families across the Upper Peninsula.

The Upper Peninsula Down Syndrome Association hopes that the city will approve us as a functioning non profit in the city of Escanaba and back us in our continued efforts to grow.

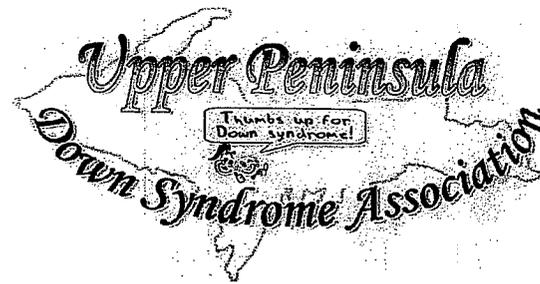
Sincerely-

Lourie Schuenke

UPDSA President/Co-founder

MONTHLY SUPPORT GROUP

For families or individuals
with Down syndrome
Serves the entire Upper
Peninsula
Meets the 2nd Saturday of
each month
Meetings are from
1:00pm-3:00pm
Held at the Early
Childhood Center
1905 S. 21st St.
Escanaba, MI 49829
Free of charge
Open attendance
Please join us to share
experiences, information
and more!



Acceptance
Awareness
Inclusion



Contact information:

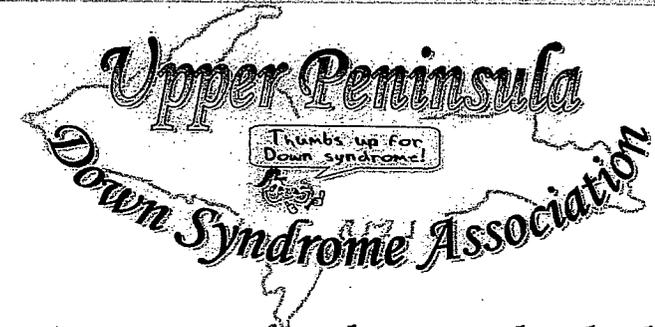
UPDSA
P.O. Box 843
Escanaba, MI 49829

UPDownsyndrome@gmail.com

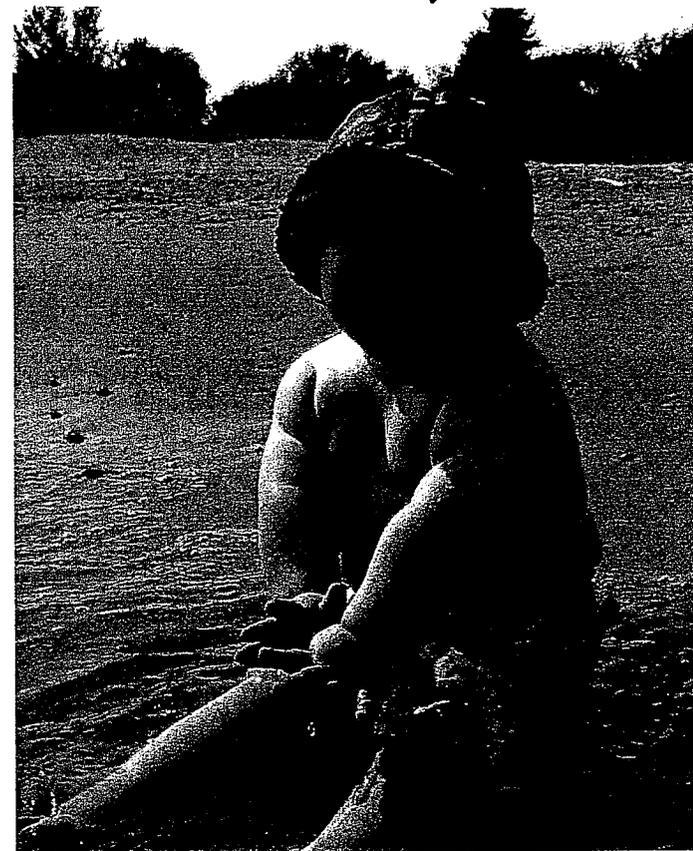
[facebook.com/UPDSA](https://www.facebook.com/UPDSA)

Lourie Schuenke
President/Co-Treasurer
906-233-1482

Cindy Vader
Secretary/Co-Treasurer
906-786-2681



Supporting families & individual
with Down syndrome





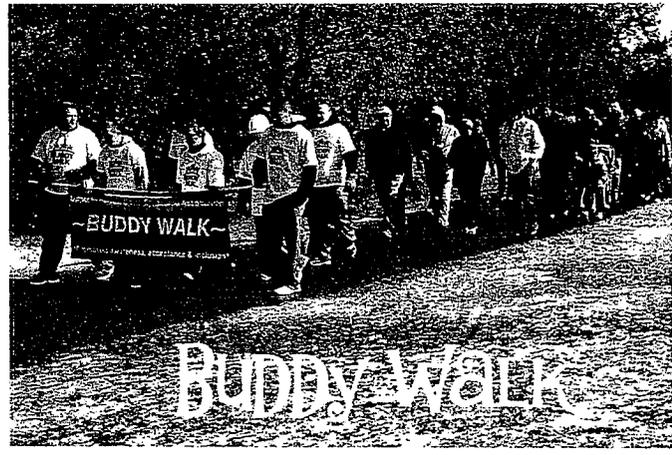
Down syndrome occurs when an individual has a full or partial extra copy of chromosome 21. This additional genetic material alters the course of development and causes the characteristics associated with Down syndrome.



People with Down syndrome have an increased risk for certain medical conditions such as congenital heart defects, respiratory and hearing problems, Alzheimer's disease, childhood leukemia, and thyroid conditions. Many of these conditions are now treatable, so most people with Down syndrome lead healthy lives.

The Upper Peninsula Down Syndrome Association (UPDSA) was co-founded by parents of young children who have Down syndrome. They recognized a need for support, education and awareness in their communities. Together with community and parent support, the UPDSA is able to provide various activities and advocacy opportunities to promote awareness, acceptance and inclusion such as:

- Expectant and new parent gift baskets
- Pre-natal diagnosis resources
- Medical community outreach
- World Down Syndrome Day Celebration 3/21
- UPDSA Family Down Syndrome Weekend (Hosted at Bay Cliff Health Camp in May)
- 4th of July Parade
- UPDSA Summer Picnic
- UPDSA Buddy Walk
- UPDSA Christmas Party



People with Down syndrome attend school, work, participate in decisions that affect them, and contribute to society in many wonderful ways.

There are more than 400,000 people living with Down syndrome in the United States.



The incidence of births of children with Down syndrome increases with the age of the mother. But due to higher fertility rates in younger women, 80% of children with Down syndrome are born to women under 35 years of age.

INTERNAL REVENUE SERVICE
P. O. BOX 2508
CINCINNATI, OH 45201.

DEPARTMENT OF THE TREASURY

Date:

FEB 24 2015

UPPER PENINSULA DOWN SYNDROME
ASSOCIATION
PO BOX 843
ESCANABA, MI 49829-0000

Employer Identification Number:
45-3027099
DLN:
26053448004175
Contact Person:
CUSTOMER SERVICE ID# 31954
Contact Telephone Number:
(877) 829-5500
Accounting Period Ending:
December 31
Public Charity Status:
509(a)(2)
Form 990/990-EZ/990-N Required:
Yes
Effective Date of Exemption:
February 13, 2015
Contribution Deductibility:
Yes
Addendum Applies:
No

Dear Applicant:

We're pleased to tell you we determined you're exempt from federal income tax under Internal Revenue Code (IRC) Section 501(c)(3). Donors can deduct contributions they make to you under IRC Section 170. You're also qualified to receive tax deductible bequests, devises, transfers or gifts under Section 2055, 2106, or 2522. This letter could help resolve questions on your exempt status. Please keep it for your records.

Organizations exempt under IRC Section 501(c)(3) are further classified as either public charities or private foundations. We determined you're a public charity under the IRC Section listed at the top of this letter.

If we indicated at the top of this letter that you're required to file Form 990/990-EZ/990-N, our records show you're required to file an annual information return (Form 990 or Form 990-EZ) or electronic notice (Form 990-N, the e-Postcard). If you don't file a required return or notice for three consecutive years, your exempt status will be automatically revoked.

If we indicated at the top of this letter that an addendum applies, the enclosed addendum is an integral part of this letter.

For important information about your responsibilities as a tax-exempt organization, go to www.irs.gov/charities. Enter "4221-PC" in the search bar to view Publication 4221-PC, Compliance Guide for 501(c)(3) Public Charities, which describes your recordkeeping, reporting, and disclosure requirements,

Letter 5436

UPPER PENINSULA DOWN SYNDROME

Sincerely,

A handwritten signature in black ink, reading "Tamara Rippanda". The signature is written in a cursive, flowing style with a large initial 'T'.

Director, Exempt Organizations



Charitable Gaming Division
 Box 30023, Lansing, MI 48909
 OVERNIGHT DELIVERY:
 101 E. Hillsdale, Lansing MI 48933
 (517) 335-5780
 www.michigan.gov/cg

LOCAL GOVERNING BODY RESOLUTION FOR CHARITABLE GAMING LICENSES
 (Required by MCL.432.103(K)(ii))

At a _____ meeting of the _____
REGULAR OR SPECIAL TOWNSHIP, CITY, OR VILLAGE COUNCIL/BOARD

called to order by _____ on _____
DATE

at _____ a.m./p.m. the following resolution was offered:
TIME

Moved by _____ and supported by _____

that the request from _____ of _____,
NAME OF ORGANIZATION CITY

county of _____, asking that they be recognized as a
COUNTY NAME

nonprofit organization operating in the community for the purpose of obtaining charitable

gaming licenses, be considered for _____.
APPROVAL/DISAPPROVAL

APPROVAL	DISAPPROVAL
Yeas: _____	Yeas: _____
Nays: _____	Nays: _____
Absent: _____	Absent: _____

I hereby certify that the foregoing is a true and complete copy of a resolution offered and
 adopted by the _____ at a _____
TOWNSHIP, CITY, OR VILLAGE COUNCIL/BOARD REGULAR OR SPECIAL
 meeting held on _____
DATE

SIGNED: _____
TOWNSHIP, CITY, OR VILLAGE CLERK

PRINTED NAME AND TITLE

ADDRESS

COMPLETION: Required.
 PENALTY: Possible denial of application.
 BSL-CG-1153(R6/09)

September 26, 2016

NB #4
CC 10/6/16

Mr. Robert Valentine, Treasurer
City of Escanaba Michigan
410 Ludington Street
Escanaba, MI 49829

Dear Mr. Valentine:

We appreciate the opportunity to assist the City of Escanaba comply with the Obsolete Property Rehabilitation Act (OPRA.) We proposed to perform any and all Level 3 assessing functions to include but not be limited to filing of state mandated reports, OPHRA processing for the Delta Plaza and other general task as needed.

Our work will be completed by JuliAnne L. (Juli) Kolbe, AIS's Director of Equalization/Assessment Service. Ms. Kolbe is a Certified Michigan Master Assessing Officer (Level 4) and has over 30 years real and personal property tax assessment, equalization and administration experience. Ms. Kolbe understands the OPRA requirements and estimates that 40-50 hours of work will be required.

We propose to complete our portion of the project at a cost of \$85.00 per hour, not to exceed 50 hours or \$4,250.00. Travel and other related project expenses will be added to our invoice.

If additional information is needed, you have questions or we can help in anyway, please don't hesitate to contact me at 314-606-0048 or joloughlin@allied-info.com.

Thank you for your consideration and the opportunity to serve the citizens of the City of Escanaba.

Respectfully,



James W. O'Loughlin, President

JOL:bd