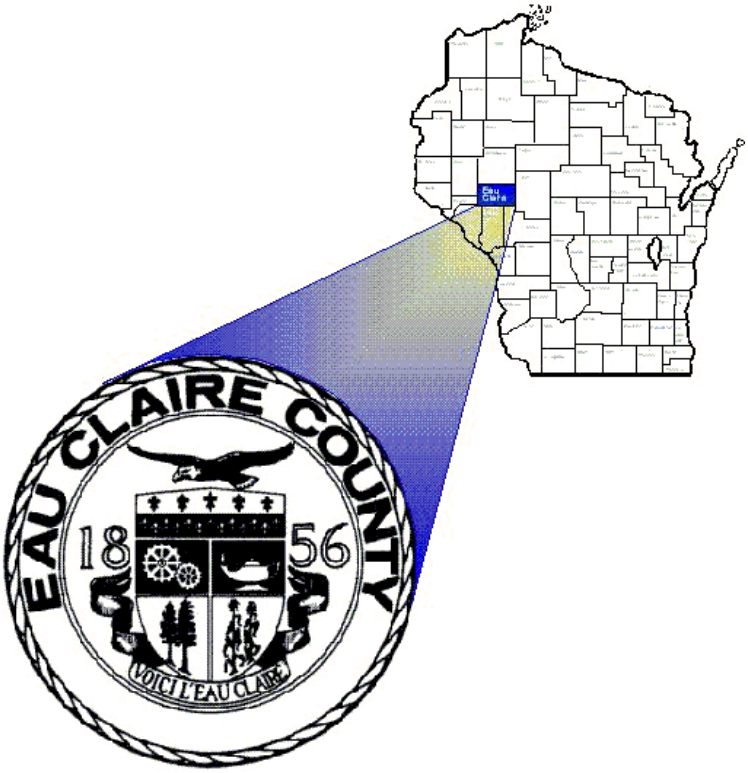
2010 Land Records Modernization Plan



Eau Claire County, Wisconsin

EAU CLAIRE COUNTY
LAND RECORDS MODERNIZATION PLAN

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EAU CLAIRE COUNTY
LAND INFORMATION PLAN
2011-2015

I. EXECUTIVE SUMMARY

A. COUNTY AGENCY AND PERSON PREPARING PLAN

The Planning Division of the Eau Claire County Department of Planning and Development has prepared this plan. The principal author is Todd Andrews, Senior Planner. The Land Information Officer for Eau Claire County is Matthew J. Janiak, County Surveyor/Land Information Division Supervisor, Department of Planning and Development, 721 Oxford Avenue, Room 1510, Eau Claire, Wisconsin, 54703, (715) 839-4742.

B. PARTICIPANTS IN THE PLANNING P ROCESS

The plan was prepared with the assistance of the following agencies, councils, committees, boards, and County Staff:

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* Todd Andrews, Senior Planner, Supervisor of the Planning Division
* Marion Grill, Real Property Lister
* Peter Strand, Geographic Information System Specialist

C. PLAN SUMMARY

This document is an update of the Eau Claire County Land Records Modernization Plan, adopted in April 1992, and subsequently updated in 1995, 1998, 1999, and 2005. This document updates the goals and objectives for land records modernization in Eau Claire County, describes progress made on modernization activities proposed, and lists the modernization projects that will be carried out during the 5 year planning horizon for this update.

The ultimate goal for land records modernization in Eau Claire County is to develop a fully automated Land Information System that provides the public with easy access to public land information. Eau Claire County has made considerable progress towards that end including, but not limited to, the following: creation of a Land Information Division within the Department of Planning and Development; conversion of all GIS data from the Intergraph Geographic Information System software to the ESRI Suite of products including ArcGIS and ArcMap software; obtained a complete set of digital orthophotographs for the entire county; development of a county-wide digital parcel map; resurvey and remonumentation of the Public Land Survey System (PLSS) for 9 of 18 congressional townships; production of high precision digital parcel maps for congressional townships where the PLSS has been resurveyed, using coordinate geometry based upon the PLSS, survey records, deeds, and other property description information; assignment of parcel identification numbers in accord with the PIN guidelines established by the Wisconsin Land Information Board; linking of the Real Property Description Database to the digital parcel map, facilitating a variety of GIS capabilities; development of a digital road centerline and property address point map to facilitate delivery of Wireless 911 service and for GIS application; conversion of the Real Property Description Database from an in-house mainframe program to the ACS NovaLIS program; automation of the Tract Index System in the Register Of Deeds Office with all new records since 1995 recorded in this system and work begun on automating records recorded prior to that time; and establishment of a GIS Webserver providing internet access to a wide variety of public land information maintained by the county.

During the planning horizon for this plan update, the county intends to continue resurveying and remonumenting the PLSS, continue with the development of high precision parcel maps, convert existing hand-drawn zoning maps to digital maps tied into the county LIS, incorporate the digital NRCS Soil Survey for Eau Claire County into the county's LIS, incorporate maps from the Eau

Claire County Comprehensive Plan into the county's LIS, and various other projects. The digital parcel maps will also be kept up-to-date, and all other digital land records will be maintained.

D. ADDRESS FOR COUNTY LAND INFORMATION WEBSITE

Eau Claire County maintains a GIS Web Server that can be accessed on the internet that provides citizens with access to extensive real property information for all parcels of land in the county located outside of the City of Eau Claire, including the cities of Altoona and Augusta, the villages of Fairchild and Fall Creek, and all thirteen towns in the county. Information that can be viewed at this website includes: the property owner; the owner's mailing address; the property address; an abbreviated version of the legal description for the parcel, zoning; land use; assessed value; and taxes charged to the property. Anyone can use the GIS Web Server on the internet at the following address: http://eauclaireco.mapping-online.com/EauClaireCoWi/default.htm.

E. INTERNET ADDRESSES FOR MUNICIPAL LAND INFORMATION WEBSITES

The City of Eau Claire maintains two internet sites where anyone can access information about parcels of land within the city. One site provides access to various maps that the city has available, including a city map, property maps, and zoning maps. Maps can be accessed at the following address: http://www.ci.eau-claire.wi.us/community/mapping-services/278-mapping-services.

An individual can also access real property information by visiting the following site on the internet: http://www.ci.eau-claire.wi.us/e-government/property-and-assessment-search. Anyone visiting the site must have a parcel number, or the street address and name in order to access this information. This website provides two levels of service, a free and subscription level. The free service provides access to the following information: the property owner; the mailing address; the assessed value of land and improvements; an abbreviated legal description; and information about the structure on the property.

II. LAND RECORDS PLAN

A. GOALS AND OBJECTIVES

1. Statement of Goals and Objectives

The goals and objective established in the original plan have been maintained, some of which have been fulfilled as noted.

PRIMARY GOAL:

DEVELOP A FULLY AUTOMATED LAND INFORMATION SYSTEM

OBJECTIVES:

- Select and acquire a computerized GIS software and hardware platform for development of a Land Information System (LIS) that will facilitate the sharing of land information with municipalities in Eau Claire County and other agencies *(completed – converted to ArcGIS platform)*
- Gather and incorporate Land Information into the County LIS, including:
  - PLSS corner information and other geodetic data *(Continuing with PLSS resurvey and remonumentation)*;
  - Digital orthophotographs of the entire County *(completed)*;
  - Digital parcel maps *(completed, with work continuing on high precision maps)*;
  - Real property description information including Parcel Identification Numbers (PIN's) per WLIB guidelines, property descriptions, ownership information, assessments and assessment land use classifications, and property addresses *(updated into a new program replacing the county's mainframe program)*;
  - Land use mapping *(completed)*;
  - Zoning mapping;
  - Wetlands mapping;
  - Soils mapping;
  - Mapping of boundary information, which can include municipal boundaries, voting districts, school districts, lake districts, and postal districts;
  - Road network mapping including functional classification of roadways *(completed)*;
  - Property Addressing System *(established)*;
  - Mapping of natural features, including but not limited to forests and other woodlands, ground water features, and watersheds

GOAL:

ESTABLISH ORGANIZATIONAL ARRANGEMENTS FOR GUIDING THE DEVELOPMENT AND MODERNIZATION OF LAND RECORDS AND FOR MAINTAINING THOSE RECORDS

OBJECTIVES:

- Create a Land Information Division within the Eau Claire County Department of Planning and Development to serve as the custodian of County land records *(completed)*

GOAL:

MAKE LAND INFORMATION EASY TO INCORPORATE INTO THE COUNTY LIS

OBJECTIVES:

- Develop a set of standards for the modification or modernization and development of Land Records that can be used as guidelines by agencies or institutions that maintain Land Records or Land Information so that information can easily be integrated into the LIS.
- Implement the State of Wisconsin's Parcel Identification Numbering (PIN) system *(completed)*.

GOAL:

MAKE THE LIS EASILY ACCESSIBLE TO THE PUBLIC AND MAKE IT USER FRIENDLY

OBJECTIVES:

- Provide County Departments and public agencies with appropriate access to the LIS *(completed the development of a GIS Webserver; provided staff needing access to more extensive information with use of ArcMAP and use of the Assessment Office (AO) and Land Development Office (LDO) in the ACS Land Records Management Solutions program)*
- Provide County Departments with appropriate access to the WLIB Clearinghouse and Technical Assistance List Service
- Provide the public with appropriate access to the LIS *(completed the development of a GIS Webserver)*
- Develop a public information program to encourage use of the system by the public

GOAL:

ESTABLISH AND MAINTAIN COOPERATION AND COORDINATION AMONGST PUBLIC AND PRIVATE AGENCIES IN DEVELOPMENT OF THE LIS

OBJECTIVES:

- Establish formal institutional arrangements with municipalities in Eau Claire County, other public agencies, and private agencies whenever appropriate, to secure cooperation and coordination in the development of public land information *(some formal institutional arrangements have been established)*
- Encourage other agencies or municipalities in the County that plan on developing a LIS to acquire computer hardware and software that will be compatible with the County LIS
- Maintain existing institutional arrangements

GOAL:

MAINTAIN THE PUBLIC LAND SURVEY SYSTEM

OBJECTIVES:

- Complete resurvey of the public land survey system (PLSS) in accord with statutory guidelines *(ongoing)*
- Complete and file the PLSS corner record forms for use by the public *(ongoing)*
- Develop and implement a program for maintaining the PLSS in accord with statutory requirements *(program developed and maintenance ongoing)*

GOAL:

DEVELOP A DIGITAL BASE MAP FOR THE LIS

OBJECTIVES:

- Conduct a series of field exercises necessary to establish the level of accuracy desired for a Base Map. This will include establishment of a network of primary control that are referenced to the Wisconsin High-Precision Geodetic Network (WHPGN) using the Global Positioning System (GPS), remonumentation of the County's Public Land Survey System (PLSS), linking of the remonumented PLSS with the primary control using traditional field survey methods, and establishing additional vertical bench marks as needed *(completed)*
- Adjust the entire Public Land Survey System to create one common coordinate system that can easily be converted to a legislatively established datum *(completed)*
- Using the spatial reference framework created by conducting the previously described exercises, develop an accurate digital Base Map for the County *(completed)*

GOAL:

OBTAIN DIGITAL ORTHOPHOTOGRAPHS OF THE COUNTY

OBJECTIVES:

- Contract for the production of digital orthophotographs for the entire county *(completed)*
- Update digital orthophotographs as resurvey of the PLSS is completed
- Establish a program for periodically updating aerial photographs

GOAL:

DEVELOP DIGITAL PARCEL MAPS FOR THE LIS

OBJECTIVES:

- Convert the existing parcel maps into a digital format for land use planning purposes *(completed)*
- Develop more precise digital parcel maps, constructing them on top of the digital Base Map while using digital orthophotos as a background, using property descriptions, survey

information, other real property description information, and other pertinent information including road alignments *(ongoing)*

- Assign Parcel Identification Numbers in accord with WLIB standards *(completed)*

GOAL:

DEVELOP ADJUNCTS TO THE LIS AS DEEMED NECESSARY TO FACILITATE THE IMPLEMENTATION OF CRITICAL PUBLIC PROGRAMS OBJECTIVES:

- Establish wireless 911 service for Eau Claire County, including the acquisition and installation of the necessary equipment and software for Automatic Number Identification (ANI) from wireless telephone calls at the Eau Claire County central PSAP (Eau Claire Emergency Communications Center), and the development of a digital centerline and address point map, geographically referenced to the PLSS, for Automatic Location Identification (ALI) for wireless 911 *(completed)*

ASSESSMENT OF INTERNAL AND EXTERNAL CUSTOMER NEEDS

Eau Claire County conducted surveys in 1990 and 1991 that were distributed to public and private agencies to determine the types of land records that were available and plans for modernizing or automating these records in the future. Results of the survey are documented in the original Eau Claire County Land Records Modernization Plan, adopted in April, 1992.

The plan adopted in 1992, subsequent amendments, and this update establish priorities for land records modernization activities based upon the needs that have been recognized by all users of Land Information. The County will continue with resurveying and remonumenting the Public Land Survey System. Further development of the LIS to add layers of information is seen as a high priority. Updating existing information is also seen as a high priority including updating digital orthophotography.

TIME LINE AND METHODOLOGY FOR ACHIEVING GOALS

a. Land Information needed and currently used by the County that is or will be obtained from state and other agencies. Land information used by the County that is obtained from other sources is discussed below, including a discussion about the TIMELINE for any modernization activities that are planned.

* *Wetlands information* - Eau Claire County currently has paper copies of the Wisconsin Wetland Inventory Maps for the County. Eau Claire County has asked the Wisconsin Department of Natural to produce digital versions of the maps and it is expected that these maps will be obtained during the planning horizon of this plan update. Integration of these maps into the County's LIS may also occur during the planning horizon of this plan update.

* *Soils information* - The Eau Claire County Soil Survey was digitized by the Natural Resources Conservation Service (NRCS). The County intends to incorporate the digital information into the LIS during this planning horizon.

b. Land Information needed by the County that it currently does not have, and problems with obtaining the information. The county is interested in obtaining the following information but has problems with obtaining the information:

* *Data to produce contour maps for parts of the county* - The elevation benchmarks established in the county do not facilitate the development of reliable contour maps. The county would like to acquire LIDAR data to produce contour maps. However, no commitment can be made to proceed with such a project because of lack of funding.

* This issue will be further examined during the planning horizon of this plan by the Eau Claire County Department of Planning and Development, and other departments that maintain land records including the Register of Deeds and the City/County health Department.

c. & d. Eau Claire County's plans to ensure that county-maintained land information is made available in a standard industry format used by others and is geographically referenced for use by others.

Eau Claire County has established a GIS Webserver that provides the public with access via the internet to numerous public land records, including a county map with numerous layers of information and access to the Real Property Description Database for real property information.

There are two levels of access to the Real Property Description Database including free and subscription service. The free service allows the user to look up the property address, the owner, the county's "Alternate" or parcel ID number (not the PIN established in accord with WLIB standards) also referred to as the computer number, the municipality that the property is located in, and the number of acres in the parcel. Users of the free service can look up the information with the property address or with the computer number, PIN, or a historical ID number also maintained by the Department of Planning and Development that local land information users are familiar with. The subscription service provides the subscriber to all of the data that is maintained in the Real Property Description Database including, but not limited to: the property owner; the mailing address of the property owner; the property address of the property; zoning; land use; assessment information; and school district. Both the free and the subscription service include appropriate programming that enables the user to access the information.

The Eau Claire County parcel maps are maintained in an ArcMAP format and copies of the maps can be obtained for a fee. The information is all geographically referenced to NAD 83-91, which is commonly recognized. The County will furnish copies of digital land information on CD's, and in other formats if appropriate equipment is available for production in another format. The County will charge fees for custom copies of the information

e. Eau Claire County's plans to ensure that digital land information is maintained and kept up-to-date.

The creation of the Land Information Division within the Department of Planning and Development, including staffing to maintain digital land information, demonstrates Eau Claire County's commitment to maintain and keep public land information up-to-date.

2. Description of How the County's Land Information Operating System and Database Design Supports the County's Goals and Objectives

Conversion of all of the map elements of the county's digital land information to the ArcGIS operating system is consistent with various goals and objectives. This is a standard industry product which provides state and other agencies, as well as private parties, with broad access to the information.

The County understands that the level of accuracy of layers of information within the LIS will vary with different spatial data sets, and therefore the location of geographic features and landmarks will not always match from one data set to the next. Consequently, adjustments must be made to some layers so that they will "fit" over the County's parcel map and other basic layers of information. Another alternative is to view some layers of information separately from the parcel map; however, this limits the utility of the LIS for analyses and other capabilities. The ultimate goal of developing a fully automated LIS that integrates all of the various types of land information will be fulfilled only when all spatial data sets have the same level of accuracy and conform to the same geographic reference frameworks. As digital versions of the various layers of information are secured, the County will assess the capabilities of integrating these layers of information into the LIS, and establish further plans for adjusting the various data sets to facilitate full integration. The County will also provide other agencies that are responsible for producing various data sets with geographically referenced information available that can facilitate the production of new or updated data sets that can be readily integrated into the County's LIS.

B. PROGRESS REPORT ON ONGOING ACTIVITIES

The goals and objectives established for land records modernization have not changed significantly since the original plan was developed with one exception: the GIS platform that was originally identified as preferred - the Intergraph Geographic Information System software – was replaced with the ESRI Suite of products including ArcGIS and ArcMap software

As noted earlier in this plan, considerable progress has been made on a variety of activities as follows:

1. Resurvey of the Public Land Survey System - Resurvey of the Public Land Survey System in Eau Claire County began in 1994. In 1997, progress on the resurvey project was accelerated when funding was allocated to hire an Assistant Surveyor and two seasonal Survey Technicians. Funding for those positions was exhausted in 2004. Nevertheless, The Supervisor of the Land Information Division/County Surveyor and Deputy County Surveyor

continue to proceed with this project. Thus far 9 of 18 congressional townships in Eau Claire County have been completed including: T25N, R8W; T25N, R9W; T25N, R10W; T26N, R8W; T26N, R9W; T26N, R10W; T27N, R8W; T27N, R9W; T27N, R10W. Half of T27N, R7W, has also been completed.

Eau Claire County has taken great care to find as many of the original monuments as possible, using the original surveyor notes prepared when the original monuments were installed and their positions were established.

2. Assignment of Parcel Identifications Numbers in Accord with WLIB Standards - All parcels in Eau Claire County have been assigned Parcel Identification Numbers in accord with the WLIB Standards, and this information is recorded in the City of Eau Claire's Real Property Description Database for the City of Eau Claire, and in the Eau Claire County Real Property Description Database for all municipalities in the County outside of the City of Eau Claire. The programming necessary to facilitate this project was completed in 1992 and 1994 and the numbering of parcels was completed in 1994 and 1995.

3. Completion of a GPS Densification project - The County performed a Global Position System (GPS) monument densification project between 1992 and 1996 in cooperation with Dunn County. As a result of this project, GPS monuments have been established at approximately 3-mile intervals throughout the County. All GPS monuments have horizontal coordinates under the Wisconsin State Plane Coordinate System established to the North American Datum of 1983 (1991), relative to the Wisconsin High Precision Geodetic Network, which range in accuracy as follows: Order B, Class 1; Order 2, Class 2; Order 2, Class 3; and First Order.

4. Automation of the Tract Index System - The Tract Index System in the Register of Deeds Office was automated in March, 1995. All documents recorded since that time have been indexed in the automated tract index system. The Register of Deeds Office is also in the process of automating the Tract Index for records dating prior to March, 1995. Lack of funding has hindered progress on this project.

5. Digital Parcel Map of the unincorporated areas of the County – A countywide digital parcel map has been developed. This map is suitable for planning purposes and is also suitable in most locations for obtaining accurate land title boundary line and land survey line information. All parcel maps created contain a disclaimer that includes, "…NOT designed or intended to be used as a substitute for an accurate field survey…".

As noted elsewhere in this plan, the county is progressively updating the parcel map, converting it to a highly precise map as survey, plat, and other information is submitted. Maintaining the digital parcel map is a high priority and funding will be allocated to this project.

6. Digital Orthophotography – Digital orthophotography has been obtained for the entire 648 square miles in Eau Claire County. The County also has access to digital orthophotography that other agencies have produced.

7. Training - Considerable training has been provided to Staff in the County Planning Department in the use of various computer programs used by the Department in land records management. The County Survey staff has received training in the use of Geographic Positioning Systems programs for the resurvey of the PLSS, and the Land Information Specialist is highly trained in the use of the ESRI Suite of products including ArcGIS and ArcMAP. Additional training has been provided to maintain certifications. Training to enhance skills has been limited dues to the lack of funding.

C. NEW INITIATIVES

The following discussion includes a description of the proposed projects that the County intends to pursue during the planning horizon, and any assistance that the County will seek in pursuing these projects and maintaining any products generated from these projects.

1. Proposed Projects

a. Continue work on resurveying the PLSS - The County will continue with the resurvey of the Public Land Survey System. Funding that was provided for this project for additional staffing was exhausted in 2004, and since that time the County Surveyor and Deputy County Surveyor have been the only staff available to proceed with this project. They are responsible for maintaining the corners that have already been resurveyed an remonumented. There are 8 ½ Congressional Townships that need to be resurveyed, and it has been estimated that it may take 20 years or more to complete this project.

b. Continue development of more precise digital parcel maps - As resurvey of the PLSS is completed, the County will continue development of high precision parcel maps using coordinate geometry based upon the PLSS, survey information, deeds, and other property description information.

c. Continue with digital orthophotography of Eau Claire County - As noted earlier in this report 648 square miles of the County have been flown for digital aerial photographs, including the cities of Eau Claire, Augusta and Altoona, the villages of Fall Creek and Fairchild, and all of the towns. As funding is made available, new orthophotographs will be flown.

d. Redistricting - Eau Claire County will redraw voting districts for all of the Supervisory Districts for the County Board of Supervisors. This project will be completed in 2011.

Other Possible New Initiatives that could be done during the 5 year planning horizon of this plan:

* Conduct a new needs assessment
* GIS Data Models (database and workflows)
* Organizational information flows
* Obtain/produce the following digital maps and incorporate into the LIS:
    - digital wetlands maps
    - incorporate digital soils map
    - voting district maps
    - school district maps

- lake district maps
- postal district maps
- forests
- watersheds
- create ground water layer in LIS
- Public Lands
- Land Cover
- Non-Metallic mining
- Endangered Resources
- Environmental Corridors
- Burial Sites (Cemeteries)
- Archeological Site
- Historical/Cultural sites
- Airfields
- Precincts, wards, legislative districts, voting places
- Utility districts (plan says local units of gov and private firms will maintain this)
- Native American Lands
- Emergency Service Districts (already in place in Comm Center)
- Hospital and Healthcare Facilities
- Government Facilities
- Transit Systems
- Bridges, Culverts, Traffic Road Signs (Highway Dept has this info on paper and state has in digital format)
- Hazardous Material Sites (SARA)
- Landfills (have paper maps of this

* Develop a set of standards for the modification or modernization and development of Land Records that can be used as guidelines by agencies or institutions that maintain Land Records or Land Information so that information can easily be integrated into the LIS
* Develop a public information program to encourage use of the system by the public
* Establish a program for periodically updating orthophotographs
* DTM's
* DEM's
* LIDAR

2. Assistance Requested

Eau Claire County will request grant funding from the WLIB if available, to support land records modernization activities. The County will also request grant funding for projects when other sources of funding suitable for modernizing land records is available.

a. County's plan to secure the technical assistance needed to carry out the Land Records Modernization/Integration Plan, including the County's plan to connect to the WLIP Internet Land Information Clearinghouse and Technical Assistance List Service - The County Land Information Division currently has Internet access and can secure information that may be of assistance through the WLIP Land Information Clearinghouse. The County has subscribed to the Technical Assistance List Server in recognition of the fact that it can serve as a tool to find solutions to problems encountered in land records modernization activities. The County also maintains technical support for computer software and hardware used to manage various land records. For land records such as Wetland Inventory Maps that are on paper, the County will contact the appropriate state or federal agency if technical assistance is necessary.

b. County's plan to locally finance the costs to continue previous investments in land records modernization/integration made in whole or in part with Land Information Program funding - The maintenance of land records in Eau Claire County is an ongoing activity and budgeting funds for the maintenance of records is an integral part of developing the County's budget each year. It is the County's intent to keep all land information on file up-to-date, including any information that has or will be upgraded as a part of any land records modernization project. Funds obtained from the $2 recording fee in the Register of Deeds Office will be the primary source of funding for this purpose. Eau Claire County has secured Land Information Program funding for assistance with resurveying the PLSS, orthophotography, digital parcel mapping for the City of Altoona, more precise digital parcel mapping in the Town of Union, and conversion of parcel data for the City of Eau Claire to a new GIS platform. Grant funding for Wireless 911 was also used to update land records in the county**.** All digital land records will be kept up-to-date. Land records that must be maintained in accord with State standards and/or requirements will be maintained in compliance with such standards or requirements. Eau Claire County will seek financial assistance for maintenance activities if available; otherwise local funding will be sought for maintenance purposes.

c. County's strategy for ensuring access to county land information – The county intends to permanently maintain the GIS Web Server to provide the public with access to county land information. County staff members that are responsible for maintaining and updating land information and data will retain the rights to access the information as needed.

d. County's plan to participate in a statewide GIS repository when one is made available – Eau Claire County would participate in a statewide GIS repository if funding is provided

e. County's plan to maximize resources by utilizing competitive procurement processes consistent with State of Wisconsin and local procurement rules - Eau Claire County has adopted competitive procurement procedures modeled after the American Bar Associations "Model Procurement Code" for local governments. Purchasing products and services by the County must be done in accord with the adopted procedures, which require competitive bidding or Request For Proposals (RFP's).

3. Problems Encountered

The County has encountered problems in completing several ongoing land records modernization projects. Resurveying and remonumenting the PLSS has now been delayed due to lack of funding since 2004 for additional staff to work on the project. Interruptions in work on the resurvey project have also occurred because of directives to perform other surveying projects for the County. Orthophotography has also been limited each year by two problems: the funding available and the extent of resurvey work done on the PLSS. Both of these problems have delayed the process of developing more precise parcel maps based upon PLSS, survey, and other property description information, which in turn has delayed arrangements to reconcile public road right-of-ways. Finally, progress on development of the County's LIS has been limited because of the lack of funding to contract for projects.

The County has not been able to initiate various land records modernization projects, primarily because of the unavailability of funds. The Eau Claire County Land Records Modernization Plan establishes a goal to incorporate an extensive list of various types of land information into the County's LIS, many of which have not been completed including the following: zoning mapping; soils mapping; Wetland Inventory Maps; mapping boundary information, including legislative boundaries, voting districts, school districts, lake districts, utility districts, postal districts, and census geography; and mapping of natural features, including forest and other woodlands, ground water features, and watersheds. The availability of funding will dictate when the remainder of this information will be converted to a digital format and how quickly it will be incorporated into the County's LIS.

D. CUSTODIAL RESPONSIBILITIES

1. Land information data for which Eau Claire County has custodial responsibility, and the source of custodial responsibility.

The following is a list of various Departments within Eau Claire County and their land records custodial responsibility. The source of custodial responsibility is noted in italics.

<u>DEPARTMENT OF PLANNING AND DEVELOPMENT</u>

Geographic Framework Records including the following:

+ PLSS Corner Records, maintained by the County Surveyor Office in the Land Information Division (*Section 59.45, Wisconsin Statutes)*

+ NGS Horizontal and Vertical Survey Records, maintained by the County Surveyor Office in the Land Information Division *(County Policy)*
+ GPS Records, maintained by the County Surveyor Office in the Land Information Division *(Section 59.45, Wisconsin Statutes)*

Parcel Records including the following:

+ Parcel maps for all municipalities except the City of Eau Claire, maintained by the Land Information Division *(County Policy)*
+ Survey records, filed by the County Surveyor in the Land Information Division *(Section 59.45, Wisconsin Statutes)*
+ Real Property Description Information, maintained by the Real Property Lister in the Land Information Division *(Section 70.09, Wisconsin Statutes; Eau Claire County Code, Subsection 2.44.030(B))*

Zoning Records including the following:

+ Zoning maps for unincorporated areas, maintained by the Land Use Controls Division *(Section 59.69, Wisconsin Statutes)*
+ Shoreland, wetland and floodplain zoning, maintained by the Land Use Controls Division *(Section 59.69, Wisconsin Statutes)*
+ Permit Records for areas subject to zoning regulations, maintained by the Land Use Controls Division *(Eau Claire County Code, Subsection 2.44.030(A))*
+ Building permits issued under the uniform 1 & 2 Family Dwelling Code, maintained by the Land Use Controls Division *(Chapter 101, Subchapter II, Wisconsin Statutes)*
+ Building permits issued under the Uniform Commercial Building Code, maintained by the Land Use Controls Division *(Chapter 401, Wisconsin Statutes)*

Land Use Records including the following:

+ Land use inventory of all municipalities except the City of Eau Claire, maintained by the Planning Division *(County policy)*
+ Land use plans for all unincorporated areas, maintained by the Planning Division *(Eau Claire County Code, Subsection 2.44.015(A))*

Agricultural Planning and Management Records including the following:

+ Farmland Preservation Plan, maintained by the Planning Division *(Chapter 91, Wisconsin Statutes)*
+ Soil Conservation Plans, maintained by the Land Conservation Division *(Chapter 91, Wisconsin Statutes)*

Property Addressing System Records including the following:

+ Property Address Maps, maintained by the Land Information Division *(County Policy)*
+ Digital Road Centerline/Property Address, maintained by the Land Information Division *(County Policy)*
+ 911 Emergency Response Map cooperatively maintained by the Eau Claire City/County Emergency Communications Center and the Land Information Division *(Agreement Between Eau Claire County and the City of Eau Claire)*
+ Records of assigned addresses, maintained by the Planning Division *(County policy)*

Aerial Photographs including the following:

+ Scale ratio aerial photographs, on mylar, which have been archived *(County Policy)*
+ Digital orthophotos, maintained by the Land Information Division *(County Policy)*

Natural Features Maps including the following:

+ Ground water maps, maintained by the Land Use Controls Division *(County Policy)*

+ Selected watershed maps, maintained by the Land Conservation Division *(County Policy)*
+ Topographic maps of selected areas in the County, maintained by the Land Information Division *(County Policy)*

Road Information including the following:

+ Gas Tax Maps, maintained by the Real Property Lister in the Land Information Division *(County Policy)*

HIGHWAY DEPARTMENT

Road Map Information including the following:

+ Horizontal and vertical road alignment and right-of-way maps for various county Roads where federal aid highway funds were allocated *(County Policy)*

REGISTER OF DEEDS

Information regarding the transfer of an interest in real property including the following:

+ Deeds, mortgages, and associated records *(Section 59.43, Wisconsin Statutes)*
+ Tract Index *(Section 59.43, Wisconsin Statutes)*
+ Assessor's Plats *(Section 70.77, Wisconsin Statutes)*
+ Condominium Plats *(Chapter 703, Wisconsin Statutes)*

EMERGENCY COMMUNICATIONS CENTER

Information regarding the County's Enhanced-911 System including the following:

+ Master Street Address Guide (MSAG) Ledgers *(In accord with contractual arrangements with Ameritech for the provision of Enhanced-911 services)*

NOTE: Eau Claire County maintains copies of a variety of other land records for which it does not have custodial responsibility. The following is a list of those records, indicating who has custodial responsibility in italics.

* Soils mapping *(Natural Resources Conservation Service, US Department of Agriculture)*
* Wetland Inventory maps *(Wisconsin Department of Natural Resources)*
* Mapping boundary information including minor civil division boundaries, legislative boundaries, voting districts, school districts, lake districts, utility districts, postal districts, and census geography *(maintained by various jurisdictions including local units of government, school districts, utilities, post offices, etc.)*
* Topographic mapping *(USGS)*

2. Land information and data for which Eau Claire County would like to assume custodial responsibility.

Eau Claire County will maintain maps of land information after the maps have been digitized and integrated into the County's LIS to coincide with the more precise digital parcel maps, with the understanding that resolution of disputes about the proper location of underlying information, such as a soils boundary or location of a road right-of-way, is the responsibility of agency or local unit of government or person responsible for the information.

3. Land information and data for which the county would assume custodial responsibility if requested.

Eau Claire County would assume custodial responsibility of any land information or data related to the Framework Data Elements and System Elements discussed in the next section of the plan if the information and/or data is provided in a format that would enable direct incorporation into the county's LIS. Eau Claire County would also consider assumption of custodial responsibility for land information and data that is not included in the Framework Data Elements and System Elements, provided the land information and/or data meets a need of the county and is provided in a format that would enable direct incorporation into the County LIS.

E. FRAMEWORK DATA ELEMENTS AND SYSTEM ELEMENTS

The guidelines established by the WLIB for Land Records Plans require each county to provide information regarding a set of "Framework Data Elements" and numerous "system elements" applicable to each of the Framework Data Elements. The guidelines require that the following be addressed:

- KEY PROGRESS OR INITIATIVES FOR EACH FRAMEWORK DATA OR SYSTEM ELEMENT LISTED.
- CONFIRMATION OF ADHERENCE TO RELATED STANDARDS OR PLANS TO MAINTAIN OR ACHIEVE COMPLIANCE WITH THE STANDARDS CORRESPONDING TO EACH ELEMENT.
- PLANS TO ASSUME OR MAINTAIN CUSTODIAL RESPONSIBILITY.
- LONG-RANGE PLANS TO MAINTAIN DATASET CURRENCY OVER TIME AS WELL AS ARCHIVE HISTORICAL COPIES OF DATASETS AS APPROPRIATE.

Each of the Framework Data Elements and System Elements are evaluated below in accord with these guidelines.

1. Geographic Positioning Reference Frameworks

GEODETIC CONTROL AND CONTROL NETWORKS

The County performed a Global Positioning System (GPS) densification project between 1992 and 1996 in cooperation with Dunn County. The project established GPS monuments throughout Eau Claire County and was done in accord with the FGDC standards and specifications established. In accord with Section 236.18, Wisconsin Statutes, and in accord with WLIB specifications and guidelines to support Densification of the Wisconsin High Accuracy Reference Network (HARN) Using GPS technology. FGDC Third Order Class II for Horizontal Coordinate Values and Third Order for Elevation Values were used as standards for all Geographic Control Data.

Eau Claire County's vertical reference framework consists of various benchmarks originally established by various federal government agencies relative to the North American Vertical Datum of 1929 (NAVD 29). Most of the benchmarks were established in the 1920's and 1930's, while others as recently as 1972. In order for Eau Claire County to achieve the required accuracy of the vertical reference framework, as many of the existing benchmarks were recovered.

Recently Eau Claire County has cooperated with the Wisconsin Department of Transportation in their Wisconsin Height Modernization Program.

The Eau Claire County Division of Land Information, Department of Planning and Development, is responsible for maintaining all land records associated with the geodetic control and control networks described above. The County Surveyors Office will continue to maintain these land records and keep them up-to-date. Any historical copies of datasets will be archived in the Eau Claire County Records Center.

PUBLIC LAND SURVEY SYSTEM REMONUMENTATION AND RECORDS AUTOMATION

The County is in the process of resurveying and remonumenting the Public Land Survey System (PLSS); maintenance of PLSS corners that have been resurveyed is also an ongoing activity. Corner records are filed in a hard copy format in accord with Statutory requirements, as well as in a digital format.

Using the GPS monuments and their coordinate values, a least squares adjustment of the PLSS is being performed upon completion of the resurvey of the PLSS to fulfill the need of one common coordinate system. Eau Claire County has developed a County Coordinate System that is based on NAD 83-91. Coordinate values for the PLSS meet, and will continue to meet, FGDC Third Order Class I.

Resurvey of the PLSS in Eau Claire County has been, and will continue to be done in accord with Section 59.74 and Section 60.84, Wisconsin Statutes and Chapter 18 of Title 43 of the United States Code. Resurvey records meet the standards established in Section 59.74, Wisconsin Statutes, and Wisconsin Administrative Code AE 7.08.

Maintenance of the PLSS monuments will also be done in accord with statutory requirements.

The Eau Claire County Division of Land Information, Department of Planning and Development, is responsible for maintaining all land records associated with the PLSS described above. This County Surveyors Office will continue to maintain and update these land records as necessary and will maintain the PLSS monuments. Historical copies of datasets associated with the PLSS will be archived in the Eau Claire County Records Center.

2. *Orthoimagery And Georeferenced Image Base Data*

PHOTOGRAMMETRIC BASE MAPS

Eau Claire County has used photogrammetry to establish road Rights-Of-Ways (ROW's) for all public road segments in the county, using orthophotographs to determine the centerlines of roads and then using a buffer to establish ROW's. As surveys are completed throughout the county, the ROW's will be established by the surveys and that information will replace the photogrammetrically determined road ROW's. This work will be completed by the Land Information Division of the Department of Planning and Development, and this division will be responsible for maintaining this information. Historical copies of datasets associated with this system element will be archived in the Eau Claire County Records Center.

DIGITAL ORTHOPHOTOGRAPHY (DOP)

A complete set of high resolution (6 inch pixel) digital orthophotographs have been obtained for all of Eau Claire County from flights conducted over several years. The Land Information Division of the Department of Planning and Development will maintain this information. Hard and digital copies of these aerial photos have been archived in the Eau Claire County Records Center and the American Geographical Society at the University of Wisconsin, Milwaukee.

Prior to 1996, Eau Claire County relied on a set of scale ratioed aerial photographs for each section of unincorporated land in the county and each quarter section of land found in the villages of Fairchild and Fall Creek and the cities of Altoona and Augusta. These aerial photos are negative images on mylar which allowed for reproduction with a blueprint machine. Hard and digital copies of these photos have been archived in the Eau Claire County Records Center and copies and the American Geographical Society at the University of Wisconsin, Milwaukee.

DIGITAL RASTER GRAPHICS

The United States Geological Services (USGS) quadrangle maps have been scanned and are digital raster files. These maps can be examined on the internet at the Eau Claire County GIS Webserver. The Land Information Division of the Department of Planning and Development will maintain these scanned images.

SATELLITE IMAGERY

The County plans on evaluating satellite imagery technology as a possible tool for base map updates and or enhancements. Funding resources are the major obstacles for this.

OBLIQUE AERIAL IMAGERY

The County is evaluating and looking into pursuing funding to obtain Pictometry, or a similar product for emergency responses and other services. Funding resources are the major obstacles for this.

HISTORICAL AERIAL IMAGERY

As noted above, the county has archived a set of scale ratioed aerial photographs in the Eau Claire County Records Center and the American Geographical Society at the University of Wisconsin, Milwaukee.

The Land Information Division of the Eau Claire County Department of Planning and Development is prepared to accept, maintain, and archive any viable set of historical aerial photographs or other aerial imagery that would be donated to the county.

3. Elevation Data Products And Topographic Base Data

DIGITAL ELEVATION MODELS (DEM'S)

Eau Claire County has obtained 10 meter USGS National Elevation Data for the entire county. The Land Information Division of the Department of Planning and Development will maintain this information as a layer in the county LIS.

DIGITAL TERRAIN MODELS (DTM'S)

The County has acquired Digital Terrain Models from its various orthophotography projects. The Land Information Division of the Department of Planning and Development will maintain these records. Any historical records that are generated over time will be archived in the Eau Claire County Records Center.

TRIANGULATED IRREGULAR NETWORKS (TIN)

Eau Claire County has a triangulated irregular network. The Land Information Division of the Eau Claire County Department of Planning and Development is responsible for maintaining this network. Any historical records that are generated over time will be archived in the Eau Claire County Records Center.

CONTOURS

As noted above, the county has obtained 10 meter USGS National Elevation Data for the entire county. In addition, six congressional townships in the northwest part of the county have 2 foot contours available. The Land Information Division of the Planning and Development Department is responsible for maintaining the 2 foot contours. Any historical records generated over time will be archived in the Eau Claire County Records Center.

LIDAR (LIGHT DETECTION AND RADAR OR LASER RADAR) DATA

The County is interested in obtaining LIDAR data for accurate countywide contour/elevation mapping. Funding resources are the major obstacles for this.

IFSAR (INTERFEROMETRIC SYNTHETIC APERTURE RADAR) DATA

Eau Claire County has no plans at this time to obtain IFSAR data for contour/elevation mapping, DEM's, or DTM's at this time.

4. Parcel Mapping

PARCEL MAPS THAT REFER BOUNDARIES TO THE PUBLIC LAND SURVEY SYSTEM

Eau Claire County has completed a full digital parcel map. This was accomplished with internal staff efforts and contracting with outside vendors. Parts of the current county-wide digital parcel map is highly precise, developed using survey records, deeds, and other property description information, while other parts of the map were developed using digital orthophotographs, existing hand-drawn parcel maps drawn on mylar overlays over the top of mylar scale ratioed aerial photographs, and other description information. The entire map is referenced to the PLSS. The precise portion of the map has been completed for the congressional townships where the PLSS has been resurveyed and remonumented. The County will continue and eventually complete a conversion of the entire map to a highly precise map using coordinate geometry, surveys and plats, deeds and a collection of other public record property description information. The conversion to precise maps will occur as resurvey and remonumentation of the PLSS is completed.

The Eau Claire County Division of Land Information, Department of Planning and Development, is responsible for maintaining and updating parcel maps. Any historical copies of datasets will be archived in the Eau Claire County Records Center.

PARCEL PROPERTY MAPS SUITABLE FOR USE IN PLANNING

The current county-wide parcel map is suitable for use by local governmental units for planning purposes. Nevertheless, most of the map is suitable for obtaining accurate land title boundary line and land survey line information. All parcel maps created contain a disclaimer that includes, "…NOT designed or intended to be used as a substitute for an accurate field survey…". As noted above, precise parcel maps will be developed which will replace existing maps as the PLSS resurvey and remonumentation is completed.

Again, the Eau Claire County Division of Land Information, Department of Planning and Development, is responsible for maintaining and updating parcel maps. Any historical copies of datasets will be archived in the Eau Claire County Records Center.

COORDINATE SYSTEM USED

The parcel maps will be referenced to the Eau Claire County Coordinate System. The horizontal datum is based on the Eau Claire County Coordinate System: NAD 1983 HARN Adj WI Eau Claire Feet.

PARCEL ID

In 1996, parcel numbers were assigned to all parcels of land within the County in accord with the WLIB Parcel Identification Numbering (PIN) System. The County originally assigned parcel numbers in 1939, using various numbering systems established at that time, and the County continues to assign these numbers for historical purposes.

A Parcel ID creates the linkage to the Real Property Database. Information in the Real Property Description Database includes: the PIN assigned in accord with WLIB standards; the historical parcel number assigned in accord with original parcel numbering systems; the name and mailing address of the owner; the property address; the assessed value of the land and improvements on the property; an abbreviated version of the property description included on the deed; the zoning wherever applicable; the school district for the parcel; recent tract information; land use codes; and other relevant information.

The Real Property Lister in the Land Information Division of the Department of Planning and Development is responsible for maintaining the parcel ID's and assigning parcel ID's when new parcels are created in the Real Property Description Database. Copies of previous years of the Real Property Description Database are maintained for reference and historical purposes.

5. Parcel Administration And Assessment Information

EFFORTS TO DEVELOP AND IMPLEMENT A LAND INFORMATION SYSTEM THAT CONTAINS AND INTEGRATES, AT A MINIMUM, PROPERTY AND OWNERSHIP RECORDS, BOUNDARY INFORMATION, AND PARCEL IDENTIFIERS REFERENCED TO THE US PUBLIC LAND SURVEY

WHEN THE TERM EAU CLAIRE COUNTY OR COUNTY IS USED AS IT RELATES TO THE ASSESSMENT DATABASE IT DOES NOT INCLUDE THE CITY OF EAU CLAIRE UNLESS NOTED.

In 1994, parcel numbers were assigned to all parcels of land within the County in accord with the WLIB Parcel Identification Numbering (PIN) System. This also included the City of Eau Claire who currently maintains their own software system. As noted under the Parcel Framework Element, the County originally assigned parcel map numbers in 1939, using various numbering systems established at that time, and the County continues to assign these numbers for historical purposes (long term plans are to eventually discontinue using this historically map # as the PIN is gradually incorporated/displayed on the GIS parcel maps). Since 1976, the County assigns a sequential computer number that links information in the Real Property Description Database to the parcel (this is done to maintain organizational integrity of printed Assessment Rolls). Information in the Real Property Description Database includes the following: the PIN assigned in accord with WLIB standards; the historical parcel map number assigned in accord with original parcel numbering systems; the name and mailing address of the owner; the site addresses, the assessed value of the land and improvements on the property; an abbreviated version of the property description from the deed; the ownership confirmation documents (deeds), the zoning wherever applicable; the taxing jurisdictions (including the school district) on each parcel; and land use codes.

The Real Property Lister in the Land Information Division, working with the Eau Claire County Information Systems Department, finalizes the assessment information in the Real Property Description Database so the data can be exported to create a yearly county tax file. Mill rate information furnished by municipalities to the County Treasurer is applied/approved to produce yearly property tax bills each year. In 2009, the Eau Claire County Treasurer's office fully implemented their new Billing and Collections software to improve their records for all phases involved in the collection of taxes both current and delinquent and historically. Short term plans are to implement scan-able bar codes on the tax bills and receipts to save time and improve accountability for both the municipal and county levels. Future plans are underway to provide tax data directly to staff in the Land Information Division.

The Eau Claire County Register of Deeds Office also maintains records related to parcels of land. All records concerning a transfer in interest in real property are recorded and filed in this office. The Register of Deeds is responsible for recording and maintaining the following records: deeds, liens, mortgages, and various other records related to the ownership of property. Their Fidlar Software is shared with the Land Information Divisions to save time and quick availability of data. Future plans are underway to provide current land information data to the Register of Deeds office.

When Eau Claire County's LIS is fully developed and operational, the parcel maps and the Real Property Description Database will be integrated. Users of the LIS will be able to access real property information from a map, or vice versa.

Due to the Eau Claire County implementing a new software system in 2007, the City of Eau Claire is taking steps to strongly consider and resolve concerns to convert their parcel data to the same Assessment Database used by the county. This would streamline importing a city tax file to the County Treasurer.

ACTIVITES TO MODERNIZE THE FOLLOWING PARCEL LEVEL INFORMATION:

Parcel ID - In 1994, Eau Claire County implemented the approved WLIB PIN. The City of Eau Claire also implemented the same PIN format to their database. The PIN was reflected as a secondary number on the old county software system until 2007. In 2007 with the conversion of data to a new county Assessment Data software, the PIN became the primary parcel ID and the computer number created in 1976 became the secondary parcel ID. The computer number for a parcel retains organizational structure when an assessment or tax roll is printed which the PIN is unable to do and is therefore being retained. Also for historical purposes the original parcel map number created and maintained since 1939 is being retained for cross-reference use. Future plans are being made to print the PIN onto the parcel maps – in doing the original 1939 parcel map numbers will be discontinued. The end result: each parcel will retain two parcel identifiers, the PIN as the primary number and the computer number as the secondary number.

Tax data - A new 2009 Billing & Collections software was implemented for the County Treasurer to complement/link to the new 2007 Assessment Data Software. Continued improvements are planned, one being the creation of bar code scanning on the tax bills and tax receipts. The tax files and reports reflect the PIN and the former computer number for historical/cross reference to delinquent taxes and tax rolls. Parcel data from the City of Eau Claire is housed on a separate database and therefore a tax file is imported to the County's database. City progress is being made to evaluate and eventually convert the city data to the county's Assessment database.

Site address - The new 2007 Assessment Data Software contains a component that is strictly for the maintenance of the site addresses. The site addresses are linked to real estate and personal property records. In doing so, site addresses are printed onto state prescribed forms – approved by the Department of Revenue for assessment and tax billing uses. The Assessment Data Software also allows the site addresses to be exported for other data import uses.

Owner name & address - The new 2007 Assessment Data Software allows multiple owners to be linked to a parcel. This feature enables the county to flag one of owners as the "mail to" name for assessment and tax billing purposes. The software also allows "in care of" names to exist for a parcel.

Description/current document pertaining to parcel - Historically, ECC has maintained a complete but abbreviated legal description for assessment and tax billing use based on the recorded document. The fields used in the Real Property Description Database for the complete recorded document include the legal description and the PIN. Legal description truncation only occurs due to limited printing space or the limitation of the software. If a simpler legal description can be used as compared to a lengthly recorded legal description without loss of the parcel being described - a note within our legal is made.

Document imaging - All documents that are currently being recorded in the Register of Deeds Office are scanned and, the Office is working backwards to scan older recorded documents and has currently scanned indexed images to January, 2003. Progress on this project has been hindered due to a reduction in staff.

Real estate transactions - When the State implemented the electronic real estate transfer returns in 2006, Eau Claire County implemented the WLIB approved PIN as their parcel identifier. At that time, the City of Eau Claire did not want to implement their PIN but retained their unique parcel number for filing electronic real estate transactions.

Easements and restrictions, including conservation easements - Eau Claire County will note recorded easement documents from the Register of Deeds within the legal description of the parcels involved. This was not always done, so as old recorded easements are found they are noted.

Tax exempt status - The new 2007 Assessment Data Software allows parcels to be flagged if the owners filed for tax exemption status which is required every two years. Otherwise, parcels owned by government entities are flagged as such by the assessor by using one of four exempt assessment land class codes.

Zip codes (including +4) - Since 2000 as new owners are placed onto the Assessment Database or as change of addresses are made, Eau Claire County has been noting the 9-digit zip code to the mailing address when available from the "zip code look-up" website.

Assessment class - Eau Claire County maintains the Assessment Lands classes as defined on the Statement of Assessment form – prescribed by the Department of Revenue. Eau Claire County is working toward implementing the electronic transfer of data on the Statement of Assessment for 2011-12 to the Department of Revenue. Eau Claire County does not maintain the sub-land classes which is maintained within the Appraisal software used by the municipal assessors.

Public lands - Land owned by government entities are listed in the Eau Claire County Assessment Database and made available on the GIS website.

Liens - Liens are recorded in the Register of Deeds but are not carried forward within the County's Assessment Database.

Evidence of Title - With the implementation of the new 2007 Assessment Software, parcels contain a linked component that strictly handles the current and historical change of title for a parcel since 2007. This is separate from Fidlar software used in the Register of Deeds for the recording of documents.

6. Street/Road Centerlines, Address Ranges And Address Points

TRANSPORTATION NETWORK

The county maintains transportation network features as part of the parcel base map. The transportation features include: Road and Railroad Right of Ways, Centerlines, and annotation of supporting name and document information.

Furthermore, the county jointly maintains a Wireless 911 Transportation Network with the City of Eau Claire. This dataset contains the Master Centerlines, Master Address Points, Master Driveways and Master Structure Points. Each of these is discussed in various sections below, including but not limited to: "Centerlines", "Address Ranges"; "Address Point, Structure, And Driveway"; "Ability To Support Emergency Planning, Routing, Response And Mapping" and "Ability To Support Wireless 911".

RIGHTS-OF-WAY

As noted above, road Right-Of-Ways (Row's) and Railroad ROW's are part of the transportation network features included as part of the parcel base map. All public road ROW's are included. The Land Information Division of the Department of Planning and Development will maintain ROW's within the county LIS.

CENTERLINES

As noted above, the county jointly maintains a Wireless 911 Transportation Network with the City of Eau Claire. This dataset contains the Master Centerlines, Master Address Points, Master Driveways and Master Structure Points. The Master Centerline files' attributes include: Road Names, Address Ranges, Functional Class, and other fields needed to support Wireless 911.

Centerlines for all public road ROW's are part of the parcel base map. Most centerlines were originally established for the current parcel base map using digital orthophotographs as the source of information. Where survey and other property records accurately establish road ROW location, that information has been used to delineate centerline locations.

Centerlines for railroad ROW's were also originally established for the current parcel base map using digital orthophotographs.

The Land Information Division of the Eau Claire County Department of Planning and Development will be responsible for maintaining and updating the Master Centerlines files. Any historical copies of this dataset will be archived in the Eau Claire County Records Center.

ADDRESS RANGES

Address ranges are established by the Planning Division of the Department of Planning and Development for all new roads as they are created as part of a subdivision plat or survey, except in the Towns of Seymour and Union. The Planning Division nevertheless consults with those towns when new roads are created in their jurisdiction to obtain range of address information. This information is submitted to the Land Information Division of the Planning Department to be included in the Master Centerlines dataset, and the Eau Claire City/County Emergency Communications Center who is responsible for developing and maintaining the Master Street Address Guide for road segments for the Wireless 911 system.

The Eau Claire City/County Emergency Communications Center, and the Land Information and Planning Division of the Department of Planning and Development will maintain and update these records as necessary.

SITE ADDRESS DATABASE

As noted in the "Parcel Administration" Framework Data Element under "Activities To Modernize The Following Parcel Level Information: Site Address", the Assessment Data Software contains a component that is strictly for the maintenance of site addresses. Site addresses are linked to real estate and personal property records. In doing so, site addresses are printed onto state prescribed forms – approved by the Department of Revenue for assessment and tax billing uses. The Assessment Data Software also allows the site addresses to be exported for other data import uses.

The Assessment Data Software includes numerous fields for assigning an address as follows: a pre-directional letter to an address number; the address number; a number suffix if applicable; pre-direction to the road; the road name; the road type (Street, Road, Avenue, Boulevard, etc.), post-directional to street; unit type; unit/apt; city; state; zip code (allows for 9 digits). The site address database within the Assessment Software also allows a site address to contain notes, be linked to real estate and personal property records (PP records first linked in 2010). Multiple site addresses can be linked to a real estate record. These site addresses have been saved yearly since 2007 within this Assessment software. Site Addresses are commonly used in state prescribed forms – approved by the Department of Revenue for assessment and tax billing uses. Also allows the site addresses to be exported for other data import uses.
The Planning Division of the Department of Planning and Development is responsible for assigning addresses and maintaining the site address database, even in the towns of Seymour and Union where

they assign their own addresses. The Land Information Division of the Planning Department is responsible for entering the site address information into the LIS.

ADDRESS POINT, STRUCTURE AND/OR DRIVEWAY

Address points are maintained in the Master Address Points dataset. Address points are assigned based on the driveway location along the centerline. The address points' attributes include: Address\House Number, Street, Community and the date & collection method.

The Master Structure Points are placed on the primary residential structure. A small number of places\landmarks have been address recording there location for use in 911. These landmarks and places are entered at the request of law enforcement due to call frequency. All addresses and centerline segments are cross referenced and verified for MSAG compliance by staff at the 911 Communications Center. These files thus have the ability to support Emergency management and Planning.

The County is the data custodian for rural property addressing system in all Towns within the County except Seymour and Union. Seymour and Union assign and maintain their own property addressing and report the addresses to the county for 911 integration. Property address information for all municipalities except the City of Eau Claire is also included in the Eau Claire County Real Property Database; the City of Eau Claire maintains its own database with property addresses.

ROAD NAMES

Road names are part of the Master Centerline dataset discussed above.

FUNCTIONAL CLASS

As noted above, the Functional Class of roads is included in the Master Centerline dataset for the county. The Eau Claire County Highway Department and the Wisconsin Department of Transportation are responsible for designating the functional class for roads.

PLACES/LANDMARKS

A small number of places\landmarks have been assigned addresses, recording their location for use in 911. These landmarks and places are entered at the request of law enforcement due to call frequency.

INTEGRATION WITH MASTER STREET ADDRESS GUIDE (MSAG)

As noted elsewhere in this report the Eau Claire City/County Emergency Communications Center is responsible for establishing and maintaining the MSAG for all roads in the county. Telecommunicators in the department identify which law enforcement, fire department, and emergency medical services respond to every segment of every public road in the county. The Communications Center also establishes MSAG's for private roads in the county where addresses have been assigned. The Communications Center also advises AT&T, which is the agency that maintains a master address list for all land line telephones in the county, of new road segments

created and their range of addresses. AT&T is responsible for keeping the road names up-to-date in their master address file.

ABILITY TO SUPPORT EMERGENCY PLANNING, ROUTING, RESPONSE AND MAPPING

The Wireless 911 Transportation Network described below supports emergency planning, routing, and emergency response. Maps can be produced from this dataset illustrating emergency response districts.

The county has other land records that support emergency planning including digital records of all properties in the county that maintain hazardous substances and a program called Cameo that enables the county to predict plumes that may arise from hazardous substance spills.

ABILITY TO SUPPORT WIRELESS 911

The county jointly maintains a Wireless 911 Transportation Network with the City of Eau Claire. This dataset contains the Master Centerlines, Master Address Points, Master Driveways and Master Structure Points. The Master Centerline files' attributes include: Road Names, Address Ranges, Functional Class, and other fields needed to support Wireless 911. The Master Address Points are assigned base on the driveway location along the centerline. The address points' attributers include: Address\House Number, Street, Community and the date & collection method. The Master Structure Points are placed on the primary residential structure. A small number of places\landmarks have been address recording there location for use in 911. These landmarks and places are entered at the request of law enforcement due to call frequency. All addresses and centerline segments are cross referenced and verified for MSAG compliance by staff at the 911 Communications Center. These files thus have the ability to support Emergency management and Planning.

The key aspect of the Wireless 911 program managed by the Eau Claire City/County Emergency Communications Center is its capability of locating emergency calls made by cellular phones. The program determines the location of a 911 cellular call from signals from cellular phone towers and displays the location on the digital map of the Wireless 911 Transportation Network.

7. Hydrography, Hydrology And Wetlands Mapping

HYDROGRAPHY

All surface water features in Eau Claire County are delineated as a layer within the county's GIS. This information is based upon USGS maps and aerial photographs. The Eau Claire County Land Information Division of the Department of Planning and Development will maintain this information. A component of updating this information is determining if a stream is considered a navigable stream according to the Wisconsin Statutes, and the Wisconsin Department of Natural Resources is responsible for this determination. When a question arises whether a stream is navigable, DNR staff are called to visit the location and make the final determination.

The county also has digital maps that delineate floodplains provided by the Federal Emergency Management Agency (FEMA). These Flood Insurance Rate Maps (FIRM's) are incorporated into the county's LIS and can be viewed with the county GIS Webserver.

The Land Information and Land Use Controls Division of the Department of Planning and Development are responsible for maintaining and updating this information.

WATERSHEDS

Eau Claire County does not maintain digital maps that delineate all watersheds. There are paper maps maintained by the Land Use Controls Division in the Department of Planning and Development.

HYDROGEOLOGY

Eau Claire County completed a Ground Water Management Plan in 1996. Included with this plan are a number of maps that delineate the following throughout the county: depth to ground water; These maps will not be digitized during the planning horizon of this update. The Land Use Controls Division of the Planning and Development Department will maintain these land records until they are digitized and incorporated into the county's LIS, after which it will become the responsibility of the Land Information Division of the Department to maintain these records.

WETLANDS MAPPING

Staff in the Land Information Division and the Land Use Controls Division of the Department of Planning and Development have requested that the WDNR digitize the County's wetland inventory map so that they can be incorporated into the County's GIS. The DNR has advised the county that the project will take approximately a year. The County still maintains paper copies of the wetland maps. Regulations regulating land use in wetlands are enforced under the county's shoreland-wetland ordinance. Land use in wetlands outside of shoreland-wetlands areas are regulated by the WDNR and US Army Corp. of Engineers.

ENVIRONMENTAL IMPACTS TO KEY FEATURES NOTED

Key environmental features were identified in the Eau Claire County Comprehensive Plan which was adopted in 2010. Digital shape files of these features should be incorporated in the county's LIS.

STORM WATER MANAGEMENT

The County adopted a county-wide Erosion Control and Storm Water Ordinance in 2007, which is enforced by the Land Conservation Division.

8. *Soils Mapping, Land Cover And Other Natural Resources Data*

SOILS MAPPING ACTIVITIES

The Natural Resource Conservation Service digitized the Eau Claire County Soil Survey in 2004. The county continues to maintain paper copies on file for reference purposes. These maps are in a digital format and can be incorporated into the county's LIS at a later date.

LAND COVER

The Wisconsin DNR maintains maps of land cover for the entire state. These maps are in a digital format and can be incorporated into the county's LIS at a later date.

FORESTS

There are various land records that identify the locations of forest within the county. Digital aerial photographs show the location of forests. In addition, lands that are assessed as forests are also identified in the Real Property Description Database. Finally, the county maintains a detailed land use inventory and lands in various types of forestry use are identified by land use code within the Real Property Description Database. Digital aerial photographs are maintained and updated by the Land Information Division of the Department of Planning and Development. Assessment records are maintained by the Real Property Lister, also in the Land Information Division. Land use codes are maintained and updated by the Planning Division of the Department of Planning and Development.

GEOLOGY

The Eau Claire County Soil Survey includes some information about the geology of the county.

HYDROGEOLOGY

Hydrogeology is discussed in the previous Framework Data Element "Hydrography, Hydrology And Wetlands Mapping" under "Hydrogeology".

NON-METALLIC MINING

There are a number of non-metallic mines in Eau Claire County and there are significant deposits of non-metallic minerals in the county. The location of non-metallic mines can be identified from land use permit records in the county, and general location of deposits were identified in the Eau Claire County Comprehensive Plan adopted in 2010.

ENDANGERED RESOURCES

General information on endangered resources in Eau Claire County is included in the Eau Claire County Comprehensive Plan adopted in 2010.

ENVIRONMENTAL IMPACTS ON KEY FEATURES NOTED

Researching, digitizing and incorporating information about environmental impacts on soils, land cover, forests, geology, hydrogeology, non-metallic mines, and endangered resources into the county's LIS is not planned during the planning horizon of this update.

9. *Land Use Mapping*

MAPPING OF EXISTING LAND USE

A parcel based land use inventory was done for all municipalities except the City of Eau Claire between 1996 and 1998. A land use code was entered into the Real Property Description Information Database for each parcel of land; a computerized parcel map digitized from the mylar parcel maps on file in the Department of Planning and Development was also produced and the land use information was linked to this map to produce land use maps for all unincorporated areas in the County and all incorporated municipalities except the City of Eau Claire. The Planning Division in the Department of Planning and Development is responsible for maintaining and keeping this inventory up-to-date. Whenever a new land use is established on a property the code is updated in the Real Property Description Information Database. The Database also includes land use codes for each parcel based upon the Wisconsin Department of Revenue Land Use Classification System for assessment purposes.

MAPPING OF PLANNED LAND USE

Eau Claire County adopted a Comprehensive Plan in 2010 which included a digital map delineating the proposed land use for all unincorporated areas within the county. This can be incorporated into the county's LIS. In addition, plans for future land use for the following incorporated jurisdictions were included in the county's comprehensive plan: the Cities of Altoona, Augusta and Eau Claire, and the Village of Fall Creek. These maps can also be incorporated into the county's LIS. Incorporating this information into the county's LIS is planned during the horizon of this update.

10. Zoning Mapping

ZONING DISTRICTS

The county maintains plastic mylars zoning maps for the county. Currently the county is working with a consultant to convert its mylars zoning into digital zoning maps that will be overlaid on the parcel maps. This project will be completed during the planning horizon of this plan. Maintaining and updating these maps will be a cooperative effort between the Land Use Controls Division and the Land Information Division of the Department of Planning Development. As lands are rezoned, the Land Use Controls Division will advise the Land Information Division of the changes and the Land Information Division will make the changes in the digital zoning maps.

The county has FEMA FIRM maps, discussed earlier, which delineate the floodplains that are subject to floodplain zoning regulations. These maps have been incorporated into the county's LIS, and are discussed below.

In 1980, the county adopted an airport height zoning code for a three mile area surrounding the Eau Claire County Airport. This zoning code limits the heights of structures within the zone based on ground elevation and mathematical based approach slopes. Mapping has been overlaid onto 7 ½ minute U.S.G.S. quad maps. In 2002, Eau Claire County amended its airport zoning ordinance to implement the recommendations of the airport master plan. The amendment to the code created 4 new airport zoning districts that regulate the use of property and to regulate and restrict the height of structures and objects of natural growth in the vicinity of the Chippewa Valley Regional Airport. These districts will increase safety in the use of the airport and protect persons and property within the airport affected area. In 2007, the airport height limitation zoning map was amended to incorporate the changes provided by the Wisconsin Department of Transportation – Bureau of Aeronautics.

Finally, the county has jurisdiction over wetlands in what are described as "shoreland areas" within the county. These are discussed in the next section of this plan.

Eau Claire County issues permits under all of the previously mentioned zoning regulations. In each case there are requirements to submit information with an application such as site plans or, in the case of floodplain zoning, a cross section of a floodplain area. All applications and attendant information are on file in the Eau Claire County Department of Planning and Development. In 1989 the County developed a computerized program for issuing and maintaining records of permits. The database that was created ties the permits to both the computer number and the parcel number that is currently being used. The permit information in this database will ultimately be accessible via the LIS. The county is currently working on the implementation of a new land records programs for permits which will be fully compatible with the LIS.

SHORELANDS

Shorelands are identified under Wisconsin Statutes as areas that are within 1,000 feet of a lake, pond, or flowage, within 300 feet of a stream or river, or to the landward side of a floodplain, whichever is greater.The County can generate the shoreland buffer using its GIS system but does not currently maintain a shoreland overlay map. Establishing this digital layer as part of the county's LIS is planned during the planning horizon of this plan.

FLOODPLAINS AND FLOODWAYS

FEMA updated the FIRM maps in 2008 and on February 18, 2009, the new maps became the official floodplain maps for Eau Claire County. Eau Claire County maintains a set of paper copies of the maps and digital versions of the maps have been incorporated into the county's LIS. The Land Information Division of the Department of Planning and Development will maintain these maps for the county LIS until FEMA makes revisions to the maps. Any revisions approved by FEMA will be incorporated into the county LIS.

ENVIRONMENTAL CORRIDORS

Environmental corridors are delineated in the Eau Claire County Comprehensive Plan adopted in 2010. Incorporation of this information into the county LIS is not scheduled during the planning horizon of this plan.

BURIAL SITES

The detailed land use inventory for Eau Claire County includes a land use classification for government uses, which includes burial sites, as well as a land use code for cemeteries for institutional uses such as churches. This information can be researched to determine the location of cemeteries within the county. Incorporation of this information into the county LIS is not scheduled during the planning horizon of this plan.

ARCHEOLOGICAL SITES

The Eau Claire County Comprehensive Plan, adopted in 2010, lists information about known archeological sites in the county. Incorporation of this information into the county LIS is not scheduled during the planning horizon of this plan.

HISTORICAL/CULTURAL SITES

Eau Claire County does not maintain extensive information about historical or cultural sites within the county. The Chippewa Valley Museum maintains extensive information on historical and cultural sites. The Eau Claire County Sesquicentennial Commission established three historical markers identifying three historical sites within the county. Various other sites were identified in the process of selecting these three sites. Incorporation of this information into the county LIS is not scheduled during the planning horizon of this plan.

11. Election And Administrative Boundary System

ELECTION BOUNDARIES, PRECINCTS, WARDS

The Land Information Division of the Eau Claire County Department of Planning and Development delineates the voting districts for the County Board Supervisory Districts after each decennial census. This map is generated digitally and is incorporated into the county's LIS. When the map is updated in 2011 in accord with state and federal requirements, it will also be incorporated into the county's LIS.

LEGISLATIVE DISTRICTS

Eau Claire County does not maintain copies of maps of districts for state and federal legislative representatives.

UTILITY DISTRICTS

Private utilities provide gas, electric, telephone and other utility services throughout Eau Claire County. Eau Claire County does not maintain copies of utility districts.

SCHOOL DISTRICTS

The Eau Claire County Real Property Lister lists the school district for every parcel of land in the county located outside of the City of Eau Claire. All parcels within the city are within the Eau Claire Area School District. Information on school districts will be maintained and kept up-to-date by the Real Property Lister and the Land Information Division of the Department of Planning and Development.

TAX INCREMENTAL FINANCING DISTRICTS

Eau Claire County does not have any tax incremental financing (TIF's) districts. Various incorporated jurisdictions in the county do have TIF's or TID's and maintain this information.

AGENCY ADMINISTRATIVE DISTRICTS AND ZIP CODES

The US Postal Service determines where postal district boundaries are located. Eau Claire County maintains paper maps of postal district boundaries which establish the five-digit zip code; however, there are extensive areas within the county where mail is not delivered and therefore it is unknown until new property addresses are assigned which Post Office would deliver mail. The post office for property addresses assigned to parcels of land within the county is also maintained in the Real Property Description Database.

CENSUS GEOGRAPHIES

The US Census Bureau maintains all levels of census geography. Eau Claire County does not have any plans to incorporate census information into the county's LIS at this time. Census information will be used in the process of delineating the new Eau Claire County Board Supervisory Districts in 2011.

CIVIL DIVISION BOUNDARIES

All boundaries between local units of government are included in the county's LIS. Municipal town, village and city boundaries are included. The Land Information Division of the Department of Planning and Development will maintain these boundaries.

PUBLIC ADMINISTERED LANDS

Lands owned by government entities are listed in the Eau Claire County Assessment Database and made available on the GIS website. The Land Information Division of the Department of Planning and Development will maintain this information and archive historical copies of the information as deemed necessary.

NATIVE AMERICAN LANDS

The location of Native American lands could be researched and mapped using ownership information in the Eau Claire County Real Property Description Database. There are no maps that specifically identify Native American lands, and there are no plans at this time to develop a specific layer for this information in the county's LIS.

COUNTY BOUNDARIES

The boundary for Eau Claire County is included in the Eau Claire County LIS. It is referenced to the PLSS. The Land Information Division of the Department of Planning and Development will maintain county boundaries within the LIS.

STATE OUTLINE

N/A

LAKE DISTRICTS

Eau Claire County does not have copies of maps delineating where lake districts are located. However, lake districts are taxing entities that are indentified in the Real Property Description Database. Maps delineating those parcels of land that are subject to taxation under lake districts can be generated with the county's GIS. Eau Claire County does not have plans at this time to incorporate a permanent layer of information in the county's LIS for lake districts.

12. Critical Infrastructure and Facility Management

EMERGENCY SERVICE DISTRICTS AND STATION LOCATIONS

Districts for the various emergency service agencies that operate within Eau Claire County are incorporated into the Wireless 911 Transportation Network discussed earlier in this report. The location of fire, police, and emergency medical ambulance stations are also maintained in this dataset.

EMERGENCY COMMUNICATIONS CENTERS AND SERVICE AREAS

The Eau Claire City/County Emergency Communications Center is the sole PSAP or Public Safety Answering Point for the entirety of Eau Claire County. All 911 calls made from within Eau Claire County are selectively routed to this emergency dispatch center, where telecommunicators can see where a land line phone call or cell phone call originated from. The City of Eau Claire and Eau Claire County will jointly maintain the operation of the Emergency Communications Center.

FIRE/POLICE DISTRICTS AND STATIONS

As part of the development of the Master Street Address Guide (MSAG) for the county's E-911 system, all fire and police districts in the county were incorporated into the Emergency Communications Center's Wireless 911 Transportation Network discussed earlier under "Ability to Support 911" under the "Street/Road Centerlines, Address Ranges And Address Points" Framework Data Element. When a call is made to 911 in the event of an emergency, Telecommunicators in the Center can automatically identify the fire and police department that should respond to the emergency.

HOSPITALS AND HEALTHCARE FACILITIES

The county does not have any land records that specifically identify the location of hospitals and healthcare facilities.

GOVERNMENT FACILITIES

A government facilities layer is not currently included in the county's LIS. The land use coding system maintained in the Real Property Description Database includes land use classifications identifying government facilities, and this information could be used to produce maps that specify the location of government facilities.

UTILITIES

As noted earlier in this report, all utilities available in rural parts of the county are provided by private utility companies who maintain their own land records delineating their location. Land records associated with public utility services provided in cities and villages in Eau Claire County are maintained by those jurisdictions.

The City of Eau Claire has digitized information on the location of utilities within the City. Utility information in the City of Altoona has also been digitized and integrated with the digital parcel map that was produced. The County has no plans to map utilities, and envisions this activity as the responsibility of each local unit of government or private entity providing the utility service.

PARKS AND RECREATION TRAILS

The Eau Claire County Parks and Forest Department maintains a paper map that is available to the public that delineates the location of outdoor recreational resources in the county, including county parks and state trails. This map is available for citizens to pick up at various county government offices. Incorporating this map into the county LIS is not scheduled during the planning horizon of this plan update.

TRANSIT SYSTEMS

Eau Claire County does not offer any transit services at this time, and does not plan to examine these services during the planning horizon of this plan update.

BRIDGES, CULVERTS, TRAFFIC ROAD SIGNS

The Eau Claire County Highway Department maintains land records that identify the location of bridges, culverts and traffic road signs. The county's LIS does not include a layer with this information at this time, and incorporating this information into the LIS is not scheduled during the planning horizon of this plan update.

AIRPORTS AND AIRFIELDS

The Chippewa Valley Regional Airport is located within the City of Eau Claire and there are a number of land records associated with the facility that are maintained by Eau Claire County. The Airport Height Zoning Ordinance includes a height limitation map that identifies height limitations around the airport. This ordinance also includes several land use districts that limit development based upon approaches to the airport. Site plans for the airport are also on file. All of this information is maintained by the Department of Planning and Development. The Land Use Controls Division and Land Information Division are responsible for maintaining and updating these records.

HARBORS

There are no harbors in Eau Claire County.

BOAT LANDINGS

Boat landings within the county are delineated on maps that are included in the Eau Claire County Outdoor Recreation Plan. There are no plans to incorporate boat landing sites into the county's LIS during the planning horizon of this plan update.

HAZARDOUS MATERIALS SITES

The Eau Claire County Emergency Government Office in the Department of Planning and Development maintains copies of plans for facilities that maintain quantities of hazardous substances on their premises. The county uses the Cameo program to determine the extent of plumes that might be generated in the event that there is a spill. Emergency service providers have access to this program in the event that there is a spill. The Emergency Government Office will maintain and update the list of facilities that have plans.

LANDFILLS

The Eau Claire County Division on Planning and Development has paper files and maps identifying the location of various landfills throughout the county that were closed in the late 1970's and early 1980's as a result of new regulations established at that time requiring the use of engineered municipal landfills at that time.

One active private landfill is located in the county, and its location is well known. The Eau Claire County land use inventory designates the site as a municipal waste landfill.

13. Database Design And System Implementation

DESIGN EVALUATION

The county currently maintains multiple land information relational databases. Prior to making new data sets the key stake holders are considered and consulted as to their needs. Design considerations include, spatial representation, county naming convention and data integration.

PROJECT APPROACH

Each project has a unique approach depending on the projects scope, size, and staffing. Larger projects that create new spatial data are documented regarding how the project was completed, quality control measures, custodial responsibility and maintenance schedules.

TIMELINE

Timelines are used within larger projects.

METADATA POLICIES

Metadata is created and maintained for all of the county's feature data sets.

SECURITY/PRIVACY POLICIES

The county's Information Systems Department is responsible for data security polices. IS staff administer all user accounts countywide. Regular backups are maintained both on and offsite to restore corrupt or compromised data. Digital privacy issues are all reviewed by the IS Advisory Committee annually.

IMPLEMENTATION AND MAINTENANCE STRATEGY

Prior to the launch of a new project an implementation plan is created determining the resources needed to both accomplish the project and\or maintain the resulting data. This prevents the creation of unmaintained\orphaned data.

DATA QUALITY MANAGEMENT

The data custodian is responsible for data quality issues. Quality control is also preformed daily as staff use the data.

NEEDS ASSESSMENT

A formal needs assessment has not been preformed due to lack of resources.

TOPOLOGY – DATA STRUCTURE AND FORMAT

Topology rules are maintained within the geodatabase.

DATABASE AND WORKFLOWS – GIS DATA MODELS

The Eau Claire County GIS data model was developed to fit with the WLIA Parcel Data Model.

DATA DICTIONARY

The county has yet to develop a comprehensive data dictionary.

CODING SCHEMA

Coding schemas are use throughout the county data.

TRANSACTION MANAGEMENT

Transaction management is part of the Real Property Database product records are date time and user stamped as they are updated or changes.

ORGANIZATIONAL INFORMATION FLOWS

Upon conversion of the Real Property Database to the ACS product Assessment Office the informational flow system was well documented.

DATA CONVERSION

We are currently not converting any new data.

VERTICAL AND HORIZONTAL INTEGRATION CAPABILITIES WITH OTHER DATABASES AND INFORMATION SYSTEMS

The county has created a system which easily integrates and links/joins with other databases from other information systems.

F. PUBLIC ACCESS

1. Use Of Technology To Facilitate Efficient Access **-** The County currently has a public access computer terminal available for searching property ownership data. The County has a GIS website that provides the public access to data through the County website. The public can query both assessment and GIS map data using the website.

2. Use Of 3rd Party Technology For Access **-** The County has an Arc web application developed by Applied Data Consultants (ADC) of Eau Claire. The Arc application is currently hosted at ADC.

The County implemented an online Register of Deeds document retrieval system. The site allows access to the County document index along with the ability to obtain document images online by a subscription.

3. Data Sharing Policies - All digital sales are subject to the conditions of a signed license agreement and fees paid the county's fee schedule.

4. Open Access To Data In Existing Format - The County adheres to the Wisconsin Open Records Law.

5. Subscription-Based Or Public-Facing Web Services - The County implemented an online Register of Deeds document retrieval system. The site allows access to the County document index along with the ability to obtain document images online by a subscription.

6. Optional Production Of Customized Data On Cost-Recovery Or Other Basis - May be negotiated in compliance with established policies. Special requests to format, lot or edit data will be charged per established fee schedule.

7. Internet Accessibility - The County currently has a public access computer terminal available for searching property ownership data. The County has a GIS website that provides the public access to data through the County website. The public can query both assessment and GIS map data using the website.

The County has an Arc web application developed by Applied Data Consultants (ADC) of Eau Claire. The Arc application is currently hosted at ADC.

8. System Security - - Eau Claire County is equipped with a Cisco Based Infrastructure Network and protected by firewalls (ASA - Adaptive Security Appliances), Symantec Anti-Virus protection software, all running on a Microsoft Active Directory based domain. The County Web site(s) are located outside the fire walls providing a higher level of security. Technology security measures adhere to the County Security Policy, that mandates complex passwords and work station protection procedures. All departments adhere to the policy under the direction of the Information System Department. Eau Claire County adamant in protecting its information, while developing web-based information for public access.

9. Privacy Policies - County adheres to the Wisconsin Open Records Law and complies with State statutes for access to restricted records. The County will be monitoring the industry and the public with concerns related to privacy and distribution of data.

10. Use Of $2 Fee Designated For Land Information And Housing Data In Accord With Sec. 59.72(5)(b)3., Wisconsin Statutes **-** Designated fees are used only in conjunction with land information programs and housing data per Wis. Stats. Sec. 59.72 (5)(b)3.

G. INTEGRATION AND COOPERATION

1. Formal And Informal Data Sharing Arrangements - - Eau Claire County has been successful in fostering integrative and cooperative relationships regarding land records modernization, as noted elsewhere in this plan. The County will maintain these relationships as appropriate.

2. Formal or Informal Data Maintenance Agreements Between Departments/ Agencies **–** Various departments within the county use land information in their day-to-day activities including but not limited to the following: Planning and Development Department; City/County Health Department; Highway Department; Information Systems Department; Parks and Forest Department; Register of Deeds; and the Sheriff's Office. The Planning and Development Department is ultimately responsible for incorporating any land information into the county's LIS and therefore departments interested in sharing and maintaining land information and incorporating it into the LIS consult with the Planning Department. The county conducted a survey for the original Eau Claire County Land Records Modernization Plan to identify the types of land records departments and agencies have to gain a perspective on all of the information already available and the needs of other departments. The Department of Planning and Development is aware of other department and agency needs and continues to work with all departments to establish arrangements for maintaining and developing useful land information.

Eau Claire County and the City of Eau Claire will enter into an agreement in 2011 to purchase and use the same software for parcel management, billings and collections, and for permitting functions. The software is from Affiliated Computer Services (ACS) includes the Assessment Office (AO) application for parcel administration, the Billing and Collections Office (BCO) application for tax bill creation and tax collections, and the Land Development Office (LDO) application for permitting and other similar functions.

3. Cooperative Arrangements **–** Cooperative arrangements are identified under the Framework Data Elements wherever there are such arrangements.

4 Collaborative Arrangements **–** There are no collaborative arrangements at this time.

5. Statutory Relationships Among Counties and State Agencies **–** Eau Claire County maintains all relationships with counties and state agencies that are required by state law.

6. Integrative/Cooperative Relationships The County Would Like To Develop And Data Shared **-** It is the policy of the Eau Claire County Department of

Planning and Development to seek out opportunities to work with other agencies on land records modernization projects.

7. Potential Partners And Mutual Projects That May Be Pursued And Data Shared – Various State of Wisconsin agencies, Federal agencies and local units of government within their unique fields.

8. County's Strategy to Allow All County Departments To Benefit From The Land Information Program – Promote and demonstrate the benefits of the program at departmental meetings. Work with all other departments when developing budgets for land records modernization to ensure that they benefit from the program.

9. County's Strategy To Allow Municipalities And Other Agencies To Benefit From The Land Information System - Plans are to make more information available by web access to municipalities for their needs.

H. COMMUNICATION, EDUCATION, TRAINING AND FACILITATED TECHNICAL ASSISTANCE

1. Documentation of county data, models and processes – The county will develop an index that lists all of the various kinds of data, models and processes that are in use and their availability for internal use by county staff and external use by the public.

2. Resources available – Retained fees are the majority of the funding source for land information projects.

3. Identification of customer needs – A needs assessment analysis will need to be updated for current needs.

4. Coordination of education/training with agencies, associations and educational institutions – Eau Claire County participates in the land information technical assistance listserver and educational opportunities with the Wisconsin Land Information Association.

5. Use of technology to facilitate education and training – The county has provided education and training for county staff in the use of the various computer programs that are used to maintain and manage land information. Software includes but is not limited to: the ACS NovaLIS program for real property listing, management of property addresses, permit records; Billing and Collections software for the County Treasurer's Office; Fidlar software in the Register of Deeds Office to record documents maintained by that office.

6. Use of, or plan to participate in, clearinghouse/repository and land information technical assistance listserv – Currently Eau Claire county participates in the land information technical assistance listserver.

7. Use of land information officer education and training funds – Annually training grant funds are used at educational opportunities with the Wisconsin Land Information Association.

I. ADMINISTRATIVE STANDARDS NOT ASSOCIATED WITH FOUNDATIONAL ELEMENTS

Plans represent an agreement between the county and the Wisconsin Department of Administration (DOA). This agreement is intended to effectuate the objectives of the Program as embodied in the enabling legislation. In order for a plan to be acceptable to the DOA, the DOA and the county agree and consent as follows below.

- The county agrees to observe and follow the statutes relating to the Wisconsin Land Information Program and other relevant statutes.
- The county agrees to permit the Wisconsin Department of Administration access to books, records and projects for inspection and audit.
- The county agrees to complete the GIS Inventory Survey (survey required annually by WLIP).
- The county agrees to update the plan every 5 years and in the interim if the plan should change.
- The county acknowledges the plan peer review process for reviewing plan updates.

Eau Claire County supports open standards rather than proprietary standards for the development of modern land records.