

Due by March 31, 2017

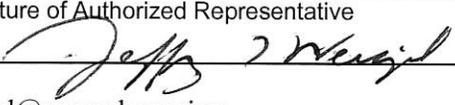
Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

This form is for reporting on activities undertaken in calendar year 2016.

Instructions: Complete each section of the form. If additional space is needed, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2017, to the appropriate address indicated on the last page of this form.

Part I. Municipal Information			
Name of Municipality City of Pewaukee		Facility ID No. (FIN) 30726	
Mailing Address W240 N3065 Pewaukee Road	City Pewaukee	State WI	ZIP Code 53072
County(s) in which Municipality is located Waukesha County	Municipality Type: (select one) <input type="radio"/> County <input checked="" type="radio"/> City <input type="radio"/> Village <input type="radio"/> Town <input type="radio"/> Other (specify)		

Part II. Municipal Contact Information			
Name of Municipal Contact Person Richard J. Wirtz, P.E., CFM		Title Civil Engineer	
Mailing Address (if different from above)	City	State WI	ZIP Code
Email wirtz@pewaukee.wi.us	Phone Number (include area code) (262) 691-0804	Fax Number (include area code) (262) 691-5729	
Has the contact person changed in the last year? <input type="radio"/> Yes <input type="radio"/> No			

Part III. Certification			
<p><i>I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.</i></p>			
Authorized Representative Printed Name Jeffrey Weigel, P.E.	Authorized Representative Title Director of Public Works/City Engineer		
Signature of Authorized Representative 	Date 3-28-2017		
Email weigel@pewaukee.wi.us	Phone Number (include area code) (262) 691-0804	Fax Number (include area code) (262) 691-5729	

Part IV. General Information

a. Describe the municipality's efforts to invite the municipal governing body, interest groups, and general public to review and comment on the annual report.

The annual report is generally presented to the Public Works Committee each year for discussion and comment prior to posting on the City's website. This past year the 2015 annual report was presented to both the Public Works Committee (March 31, 2016) and the Common Council (April 18, 2016).

City staff are available for questions regarding the annual report via the City's website, telephone, electronic mail, meetings with elected officials and general walk-in questions. Few questions are received by City staff regarding the details of the report. The 2016 annual report will be posted on the City's website.

b. Describe how the municipality has kept elected and municipal officials and appropriate staff (such as operators, department heads, and those that interact with the public) informed of the municipal storm water discharge permit and its requirements.

City staff work with our elected officials regarding the City's municipal storm water discharge permit through discussions regarding: the function and need of the City's storm water utility; budget hearings; discussions regarding potential changes to the City's municipal discharge permit; changes to the City's storm water management ordinance;

Part IV. General Information (continued)

discussions related to components in capitol improvement projects that impact storm water discharges; and discussion regarding enforcement of City storm water management and erosion control ordinances.

Currently, discussions regarding the requirements of our permit have increasingly occurred during the development review process and enforcement of our storm water and erosion control ordinances.

- c. Has the municipality prepared or updated its own municipal-wide storm water management plan during the reporting year? Yes No

If yes, provide the title and date of storm water management plan and list any updates:

If yes, has the information been submitted to the Department? Yes No

- d. During the reporting year, has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit? Yes No

If yes, describe these cooperative efforts:

If yes, has the information been submitted to the Department? Yes No

- e. If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program? Yes No

If yes, provide web address:

Part V. Evaluation of Permit Conditions (Section 2 of General Permit)

Minimum Control Measures: For each of the permit conditions listed below, provide an evaluation of program compliance with the general permit.

1. Public Education and Outreach (Section 2.1 of General Permit)

Description of Program(s)	See attached Exhibit A for a summary of the Waukesha County contracted program.
Measurable Goal(s)	
Result(s) Achieved	
Describe any planned changes to program.	

2. Public Involvement and Participation (Section 2.2 of General Permit)

Description of Program(s)	See attached Exhibit A for a summary of the Waukesha County contracted program.
Measurable Goal(s)	
Result(s) Achieved	
Describe any planned changes to program.	

3. Illicit Discharge Detection and Elimination (Section 2.3 of General Permit)

Description of Program(s)	See attached Exhibit B.
Measurable Goal(s)	
Result(s) Achieved	

Part V. Evaluation of Permit Conditions (continued)

Describe any planned changes to program.	
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4. Construction Site Pollutant Control (Section 2.4 of General Permit)

Description of Program(s)	See attached Exhibit C.
Measurable Goal(s)	
Result(s) Achieved	
Describe any planned changes to program.	

5. Post-Construction Storm Water Management (Section 2.5 of General Permit)

Description of Program(s)	See attached Exhibit D.
Measurable Goal(s)	
Result(s) Achieved	
Describe any planned changes to program.	

6. Pollution Prevention (Section 2.6 of General Permit)

Description of Program(s)	See attached Exhibit E.
Measurable Goal(s)	
Result(s) Achieved	
Describe any planned changes to program.	

• Storm Water Management Facilities (Section 2.6.1 of General Permit)

List any new municipality owned or operated structural storm water management facilities (ponds, biofilters, etc.) added in the last year.

None.

• Routine Inspection and Maintenance (Section 2.6.2 – 2.6.4 of General Permit)

Does the municipality have an inspection and maintenance program for installed structural storm water management facilities?

Yes No

Describe the inspection and maintenance program and any activities that have occurred for structural storm water management facilities in 2016. If available, attach any additional information on the inspection and maintenance program.

The City has an informal program of annually inspecting the City owned storm water management ponds in Wagner Park.

Describe the street sweeping and catch basin cleaning efforts, and the disposal of waste.

See Exhibit E.

Part V. Evaluation of Permit Conditions (continued)

• Winter Road Management Activities (Section 2.6.5 of General Permit)

Provide the name, title, and phone number of the individual(s) with overall responsibility for winter roadway maintenance.

Matt Stevens, Highway Superintendent, 262-691-0771

Describe the types of products used for winter road management (e.g. deicing, pre-wetting, salting, etc.).

The City uses road salt and salt brine in various combinations depending on weather conditions and road temperatures. Salt brine is used either alone as a pretreatment of the road surface ahead of a storm or used in combination with the road salt to act as a pre-wetting agent in order to increase the efficiency of the salt.

Report the amount of product used by month over the last winter season (approx. November 2015 through April 2016).

For the 2015-2016 winter season: 500 gal of brine and 110 tons of salt were used in November; 500 gal of brine and 240 tons of salt were used in December; 1100 gal of brine and 565 tons of salt were used in January; 1100 gal of brine and 570 tons of salt were used in February; 1600 gal of brine and 420 tons of salt were used in March; and 300 gal of brine and 50 tons of salt were used in April.

Report the snow disposal locations, if applicable.

The City utilizes the City Hall site and the end of Yench Road as disposal locations for excess snow.

Describe anti-icing, equipment calibration, and salt reduction strategies.

The City utilizes a salt brine solution for pre-wetting applications of road salt as well as for use as a stand alone de-icer for critical areas. The estimated cost savings at the time the decision was made to utilize a brine solution for pre-wetting/de-icing was between 10 and 20 percent over salt alone.

The equipment utilized is calibrated by the manufacturer at the time of delivery. Salt applications are set based upon the ground speed of the vehicle and the temperature of the pavement. The brine solution used for prewetting the salt is set not to exceed 10 gallons per ton with 8 gallons per ton being typical.

Describe any other additional data or information used to evaluate the winter road management activities.

See Exhibit E for more information.

• Leaf Management (Section 2.6.6 of General Permit)

Describe the management of leaves and grass clippings.
See Exhibit E.

• Municipal Pollution Prevention (Section 2.6.7 of General Permit)

Provide the location (street address) of each facility (municipal yards and/or maintenance facilities) and contact information (name, title, and phone number) for the individual(s) with overall responsibility for each facility.

See Exhibits E and F.

Map(s) included? Yes No - Include a map of each facility, drawn to scale and include the following features:

- Location of major activities and storage areas
- Identification of drainage patterns, potential sources of storm contamination and discharge points.

Part V. Evaluation of Permit Conditions (continued)

- Identification of nearby receiving waters or wetlands
- Identification of connections to the permittees's MS4

Describe the housekeeping activities and best management practices installed at municipal yards and/or maintenance facilities to reduce or eliminate storm water contamination.

See Exhibits E and F.

Discuss recommendations for improvements to current storm water management practices at the facility(s) and provide a timeline for installation and/or implementation of these recommendations.

See Exhibits E and F.

Provide information on facility inspections. Identify and address potential sources of storm water contamination.

See Exhibits E and F.

Describe the municipal facility(s) employee training on storm water pollution prevention (frequency, duration, objectives, percentage of employees trained this year, etc.).

See Exhibits E and F.

Describe the spill prevention and response procedures in place at the municipal facility(s).

See Exhibits E and F.

7. Storm Water Quality Management (Section 2.7 of General Permit)

Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard? Yes No

If yes, provide the following: Model used WinSlamm Version 9.4 Reduction (%) 59

If no, include a description of any actions the municipality has undertaken during 2016 to help achieve the 20% standard.

8. Storm Sewer System Map (Section 2.8 of General Permit)

Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.

None.

Part VI. Fiscal Analysis

a. Provide a fiscal analysis that includes the annual expenditures for 2016, and the budget for 2016 and 2017. A table to document fiscal information is provided on page 8.

See Exhibit G.

b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

Storm water utility General fund Other _____

c. Is adequate revenue generated to implement the storm water management program and meet permit requirements?

Yes No

Part VI. Fiscal Analysis (continued)

Please provide a brief summary of the municipality's financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer the storm water management program.

Funding of the City's storm water management program is not as much an issue as available staffing. Staff are required to spend the majority of their time mired in regulating the construction site erosion control and post construction storm water management aspects of our ordinance (i.e. plan review and construction site erosion control enforcement) rather than focus on other requirements of our permit.

Part VII. Inspections and Enforcement Actions

Note: If an ordinance listed below has been submitted to the Department previously and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.

- a. Has the municipality amended its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit during the reporting year? Yes No
If yes, attach copy or provide web link to ordinance:

- b. Has the municipality amended its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit during the reporting year? Yes No
If yes, attach copy or provide web link to ordinance:

- c. Has the municipality amended its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit during the reporting year? Yes No
If yes, attach copy or provide web link to ordinance:

- d. Has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.) during the reporting year? Yes No
If yes, attach copy or provide web link to ordinance:

- e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

The Building Inspection Department performed 591 erosion control/bond inspection in 2016. The Public Works Department and its consultants conducted 397 erosion control inspections of private development construction sites and 103 inspection of City construction projects in 2016. Two Notices on Non-compliance were issued in 2016 and no Notices of Violation or Recommendations for Fines were issued.

Part VIII. Water Quality Concerns

- a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: <http://dnr.wi.gov/topic/surfacewater/orwerw.html>) Yes No
If yes, list:

- b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: <http://dnr.wi.gov/water/impairedsearch.aspx?status=303d>) Yes No

If yes, complete the following:

- Impaired waterbody to which the MS4 discharges:

Spring Creek, Un-named Tributary to Spring Creek and the Fox River

Part VIII. Water Quality Concerns (continued)

- Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant(s) of concern to an impaired waterbody:

The City has enacted ordinances which address phosphorous in fertilizers, construction site erosion control and post construction site storm water management. Additionally, the City aggressively sweeps its roadways, has a leaf management program, has undertaken a program for unplanned water main discharges, has developed one nutrient management program with four other programs pending and has a program for removing sediment from its catch basins.

- c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

City staff are unaware of any improvements to the receiving waters. As these lists are only updated in even numbered years, any changes to the aforementioned streams will only be known to staff in 2018.

- d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.

City staff are unaware of any known degradation in the water quality of its receiving streams.

- e. Does any part of the MS4 discharge to an approved Total Maximum Daily Load (TMDL) area (Section 1.5.4 of the general permit)?
 Yes No

If yes, fill out below. If no, disregard.

Required reporting for TMDLs approved prior to the effective date of the permit for 2016:

Name of TMDL: _____ Date TMDL approved? _____

Map(s) included? Yes No - Submit a storm sewer system map (may be the same map submitted under section V.6. of this form), which includes the TMDL reachshed boundaries and associated acreage within the municipality, and the MS4 drainage boundaries and associated acreage within the municipality.

Part IX. Proposed Program Changes

Describe any proposed changes to the storm water management program being considered for 2017 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

City staff anticipate receiving proposals for a new comprehensive storm water management plan in 2017. Additionally, City staff will work on updating its programs to be in conformance with its permit.

Part X. Other

Any other municipal storm water program information for inclusion in the Annual Report regarding their storm water program may be added here or attached.

Fiscal Analysis Table. Complete the fiscal analysis table provided below.

Program Element	Annual Expenditure		Budget		Source of Funds
	2016	2016	2016	2017	
Public Education and Outreach					See Exhibit G for the Fiscal Analysis
Public Involvement and Participation					See Exhibit G for the Fiscal Analysis
Illicit Discharge Detection and Elimination					See Exhibit G for the Fiscal Analysis
Construction Site Pollutant Control					See Exhibit G for the Fiscal Analysis
Post-Construction Storm Water Management					See Exhibit G for the Fiscal Analysis
Pollution Prevention					See Exhibit G for the Fiscal Analysis
Storm Water Quality Management (including pollutant-loading analysis)					See Exhibit G for the Fiscal Analysis
Storm Sewer System Map					See Exhibit G for the Fiscal Analysis
Other:					

NORTHERN REGION COUNTIES			WEST CENTRAL REGION COUNTIES		
Ashland	Langlade	DNR Service Center Attn: Storm Water Program 5301 Rib Mountain Rd. Wausau, WI 54401 Phone: (715) 359-4522	Adams	Marathon	DNR Service Center Attn: Storm Water Program 5301 Rib Mountain Rd. Wausau, WI 54401 Phone: (715) 359-4522
Barron	Lincoln		Buffalo	Monroe	
Bayfield	Oneida		Chippewa	Pepin	
Burnett	Polk		Clark	Pierce	
Douglas	Price		Crawford	Portage	
Florence	Rusk		Dunn	St. Croix	
Forest	Sawyer		Eau Claire	Trempealeau	
Iron	Taylor		Jackson	Vernon	
	Vilas		Juneau	Wood	
	Washburn		La Crosse		

NORTHEAST REGION COUNTIES			SOUTH CENTRAL REGION COUNTIES		
Brown	Marquette	DNR Northeast Region Attn: Storm Water Program 2984 Shawano Ave. Green Bay, WI 54313 Phone: (920) 662-5100	Columbia	Jefferson	DNR South Central Region Attn: Storm Water Program 3911 Fish Hatchery Rd. Fitchburg, WI 53711 Phone: (608) 275-3266
Calumet	Menominee		Dane	LaFayette	
Door	Oconto		Dodge	Richland	
Fond du Lac	Outagamie		Grant	Rock	
Green Lake	Shawano		Green	Sauk	
Kewaunee	Waupaca		Iowa		
Manitowoc	Waushara				
Marinette	Winnebago				

SOUTHEAST REGION COUNTIES		
Kenosha	Sheboygan	DNR Service Center Attn: Storm Water Program 141 NW Barstow Street, Room 180 Waukesha, WI 53188 (262) 574-2100
Milwaukee	Walworth	
Ozaukee	Washington	
Racine	Waukesha	

Exhibit A

Waukesha County Contracted Program

Waukesha County Storm Water and Recycling Education Program 2016 Proposed Workplan

This workplan describes a public information and education program that complies with the Municipal Permit conditions of NR216 as approved by the DNR. The program is organized by target audience. For each target audience, programs goals, activities and the general roles of the County and the local Community are described.

The Education Advisory Committee is chaired and coordinated by the County, with representation from participating communities. The Committee will meet at least 2 times per year to review the status of activities, evaluate their success and make work plan revisions, as needed. Subcommittees may be formed to plan or carry out certain activities, as needed. Some activities will be phased into the program, as noted below.

To comply with the Municipal Permit, all communities are required to carry out minimum assigned tasks, as described below. Staff in the larger communities are expected to participate more in program planning and implementation. To encourage public participation in the development and implementation of the work plan, the County will post the plan on their web page for comment and contact local environmental, civic and other interested groups or individuals and encourage their involvement. Each community must provide the County with contact information for applicable local groups or interested individuals.

Target Audience: Contractors, Builders, Developers, Consultants & Municipal Staff

Goal: *Increase understanding of and compliance with local ordinance requirements for construction site erosion control and post-construction storm water management. Provide technical training for plan development and Best Management Practice (BMP) design, installation and maintenance. Promote environmentally sensitive land development methods.*

1. **Workshops** – The County will conduct one workshop in 2016 on April 14th. The County will lead program development, implementation, advertisement and post-workshop evaluation efforts, as needed.
 - *Community role: Assist the County in program planning, promotion and implementation, including providing e-mail lists for local target audiences, distributing advertising materials locally, and finding presenters and local examples of target BMPs. Communities may also be asked to serve on a planning committee.*

Goal: To have at least 75 workshop participants with good evaluation rating (3.5 or higher)

2. **Newsletters** – The County will write periodic newsletter articles for the Metropolitan Builders Association (or similar groups), focusing on local nonpoint pollution control problems, solutions, on-going program efforts and success stories that affect their industry.
 - *Community role: Provide the County with ideas for related articles on local activities, events or success stories*

Goal: To work with MBA on newsletter articles as opportunities arise.

3. Education Opportunities – In addition to sharing webinar and education opportunities with local MS4 communities, notices will be sent to developers and builders when appropriate opportunities arise.

Target Audience: General Public

Goal: *Increase public understanding of the processes and negative impacts that urban storm water runoff and illicit discharges have on the local water resources and what each person can do to address the problem. Promote changes in behavior and the adoption of practices such as native landscaping, rain barrels, rain gardens, green roofs, environmentally sensitive lawn, pet and car care, riparian land management, yard waste composting, water quality monitoring, hazardous waste management and other related practices.*

1. Storm Drain Stenciling – The County will provide stencils, paint and educational door hangers, or permanent markers with adhesive and coordinate their distribution and use by youth groups and adult organizations to apply the message “Dump No Waste – Drains to River/Lake” on local storm drain inlets. Educational door hangers will be provided for homes in stenciled areas to educate residents about storm drains.
 - *Community role: Promote the activity locally, provide the County with contacts for local youth and civic groups, and facilitate local approvals as needed. Notify the County if you do not want permanent markers applied by volunteers.*

Goal: To have a least 2 groups participate in stenciling

2. News Releases/Newsletters/Recognition — The County will prepare seasonal news releases and articles for local newspapers and Community newsletters announcing water quality related activities, programs and services. The County will also provide information through the “Recycling & Clean Water Newsletter”, a four page newsletter mailed to over 100,000 homes in the county. Tax inserts will also be made available to communities.
 - *Community role: Provide the County with contacts for local media, people or businesses that deserve recognition, and other ideas for news releases and articles. Assist with writing local articles or local versions of County articles. Disseminate articles locally through Community newsletters, civic groups, etc. Help obtain permission to include tax insert with municipality tax mailing.*

Goal: To send at least 2 press releases per year

3. Presentations – The County will provide a speaker, accompanied by a Power Point presentation or video for local civic groups and other organizations with a choice of water related topics. Groups such as churches, scouts and 4-H would be appropriate targets as well as Kiwanis, Lions Club and Chambers of Commerce. These groups provide opportunity for public involvement and participation as required in your permit, with opportunities to link in to displays, handouts, stenciling and others.
 - *Community role: Promote the service locally and forward presentation requests to the County. Identify local opportunities, coordinate with local events, and assist with implementation duties per the work plan.*

Goal: To speak to at least 5 groups other than schools and to provide at least one merit badge class for Boy Scouts

4. Displays/Handouts – The County will provide fully developed displays and handout materials for local special events or building lobbies and entryways. The County will also coordinate the transportation of the display and train local staff in setup. Displays will be tailored to address seasonally specific issues, such as lawn care, fall leaf collection, etc.

The most successful venues for the display have been library events, family movie night in the park, events for kids and pancake breakfasts.

- *Community role: Schedule local display opportunities with the County. Coordinate local setup, maintenance and take down with the County.*

Goal: To use the display in at least 15 of the 25 participating communities

5. Web Page – The County will create and maintain web pages that provide information on the above noted practices, promote their use, and direct citizens to related local services, events and demonstration sites. Related fact sheets and informational flyers will also be made available for download.

- *Community role: Direct local citizens to the County web pages and incorporate links into Community web pages to promote related County service and events.*

Goal: To promote local links to webpages

6. Businesses – The County will work through local chambers of commerce to educate businesses on recycling and clean water practices. This will happen through a variety of avenues depending on the chamber. Examples of Chamber activities might include business after 5:00 gatherings, 20/20 education events, newsletter articles, booths at events and more. We will maintain our memberships in Oconomowoc and Hartland.

Some Chambers are open to the development of Green Business Awards. We will be looking to incorporate storm water components into these awards as much as possible.

- *Community role: To refer groups with business ties such as rotary and Kiwanis to the County*

Goal: To be involved in 1 new Chamber of Commerce

7. Rain Garden Grants/Technical Assistance – The County will continue participating in the Graham Martin Foundation Rain Garden Grant to provide low cost plants for rain gardens. The County will administer available grant funds to green schools and targeted project areas.

In addition, at least one rain garden workshop will be offered to educate people about the function and design of rain gardens.

- *Community role: Request targeted areas as opportunities arise.*

Goal: To have at least 10 participants in the rain garden grant program, hold one rain garden workshop and one rain barrel sale.

8. Hazardous Waste/Used Oil Collection – To prevent improper disposal and water pollution, the County will continue to promote and support three permanent household and agricultural hazardous waste collection sites in Waukesha, Muskego and Menomonee Falls, and periodically host temporary collection sites in other Communities, as funding allows (*per separate agreements between the County and the Community*). Used motor oil and oil filters will also continue to be collected at Community recycling drop off sites.

- *Community role: Promote the collection sites locally and direct citizens to the County web site for more information.*

Goal: Collect at least 200,000 pounds of hazardous waste from either permanent or temporary collection facilities, and to host at least 2 Green Cleaning events.

9. Yard Waste Composting – To reduce water pollution from improperly disposed leaves and grass clippings, the County will promote home composting of yard wastes and continue to offer a County-owned drop-off site for Community yard waste collection programs at no cost to the Community for processing (*per separate agreements between the County and the Community*). At the drop-off site, yard wastes are composted and used for mine reclamation purposes.

- *Community role: Collect yard waste from citizens and transport to the County composting facility in the Town of Genesee.*

Goal: Compost approximately 2500 tons of yard waste and host one compost bin sale.

10. Citizen Stream Monitoring – The County will offer interested citizens the opportunity to monitor a local stream site once a month from May to October. The County will train and equip participants to collect temperature, turbidity, biotic index, flow and dissolved oxygen data. This activity educates participants while collecting useful water quality data for monitoring program progress.

- *Community role: Promote locally and direct interested citizens to the County.*

Goal: To maintain monitoring at 20 sites throughout the County and provide at least one training opportunity for new volunteers.

11. Education for Homeowners Associations – The County has created a set of three flyers with information for homeowners associations on wet ponds, infiltration, and bioretention information. Municipalities required to do education to this target audience should make these flyers available to their homeowners associations.

A special education project for the drainage area through Mukwonago Park is being planned for early spring. The BMP brochures will be presented as well as rain garden and rain barrel discounts offered.

- *Community Role: Request additional areas for targeted projects in future.*

Goal: To promote BMP maintenance brochures through one targeted event

Target Audience: School Teachers & Students

Goal: *Have teachers learn the negative impacts that urban storm water runoff and illicit discharges have on the local water resources, and what they and their students can do to address the problem. Incorporate into related indoor and outdoor classroom activities and implement runoff pollution control practices on school property.*

1. **Teacher Training** – The County will provide Project WET (Water Education for Teachers) training and curriculum guides for teachers. Project WET is supplemental water education that can be used in science, math, art, physical education and other areas. All activities are hands-on and water related. In addition, training on soils, water and natural resources/recycling will be provided at a separate summer training opportunity for teachers.
 - *Community role: Promote training locally and direct interested teachers to the County.*
2. **Presentations** – The County will provide a speaker and Power Point presentation for classrooms to discuss local water quality issues, including actions that students and their families can take to reduce nonpoint pollution.
 - *Community role: Promote presentations locally and direct interested teachers to the County.*
3. **Green Schools** – The County will help participating schools work through the DNR's "Green & Healthy Schools" program. Assist school teams with completing the "water" and "school grounds" inventories, making recommendations for controlling runoff and reducing water usage. The County may also provide some grant dollars to help implement the recommendations and move toward state certification. Through the years, a total of 59 schools have received funding and help through the County. (*Note: Separate agreement required between the school and the County.*)
 - *Community role: Promote program locally and direct interested schools to the County.*
4. **Stream Monitoring** – Offer local teachers the opportunity to expose students to a one-time field trip for stream monitoring. Students would collect temperature, turbidity, biotic index, flow and dissolved oxygen. This type of monitoring is primarily designed to educate students on water quality issues and the techniques used to measure the impacts of land use on water quality.
 - *Community role: Promote program locally and direct interested teachers to the County.*

Goal: To reach at least 1400 students through presentations and field experiences. In addition, reach at least 12 teachers through training opportunities.

**Waukesha County Storm Water Education Program
2016 Workplan Accomplishments**

Target Audience: Contractors, Builders, Developers, Consultants & Municipal Staff

1. Workshops –

Goal: To have at least 75 workshop participants with good evaluation rating (3.5 or higher)

Actual: 95 participants with a workshop rating of 4.3 on a 5.0 scale.

Hosted a road salt workshop with 36 DPW staff from 15 communities in attendance

2. Newsletters –

Goal: To work with MBA on newsletter articles as opportunities arise.

Target Audience: General Public

1. Storm Drain Stenciling –

Goal: To have a least 2 groups participate in stenciling

Actual: 5 groups stenciled in Waukesha, Brookfield, North Prairie, and two in Oconomowoc

2. News Releases/Newsletters/Recognition —

Goal: To send at least 2 press releases per year

Actual: 4 press releases went out on water related topics

3. Presentations –

Goal: To speak to at least 5 groups other than schools and to provide at least one merit badge class for Boy Scouts

Actual: Spoke for 20 groups with over 660 people in attendance. This included two Boy Scout merit badge classes for Environmental Science and Soil and Water Conservation.

4. Displays/Handouts –

Goal: To use the display in at least 15 of the 25 participating communities

Actual: Used the display 23 times in 16 different communities with an estimated 17,000 people who could have viewed it.

5. Web Page –

Goal: To promote local links to webpages

Actual: Updated county web page with new SW ordinance and support materials.

6. Businesses –

Goal: To be involved in 1 new Chamber of Commerce

Actual: Involved in Oconomowoc, Hartland and Muskego Chambers with Muskego being new for this year.

7. Rain Garden Grants/Technical Assistance –

Goal: To have at least 10 participants in the rain garden grant program, hold one rain garden workshop and one rain barrel sale.

Actual: Held 8 rain garden workshops. Had 17 participants in the program and still sold the same number of plants. Sold 28 rain barrels in the sale.

8. Hazardous Waste/Used Oil Collection –

Goal: Collect at least 200,000 pounds of hazardous waste from either permanent or temporary collection facilities, and to host at least 2 Green Cleaning events.

Actual: Collected 190,000 pounds of hazardous waste through the end of September and hosted 4 Green Cleaning programs with 60 people attending.

9. Yard Waste Composting

Goal: Compost approximately 2500 tons of yard waste and host one compost bin sale.

Actual: Composted 2,498 tons of yard waste through the end of September and hosted a compost bin sale with 33 bins sold and hosted 3 composting classes with 116 people in attendance.

10. Citizen Stream Monitoring

Goal: To maintain monitoring at 20 sites throughout the County and provide at least one training opportunity for new volunteers.

Actual: Hosted one training for 8 new monitors. Have 28 active sites throughout the County.

11. Education for Homeowners Associations

Goal: To promote BMP maintenance brochures through one targeted event

Actual: Hosted an event for the Mukwonago Park watershed. Attended by 9 people.

Target Audience: School Teachers & Students

1. Teacher Training –
2. Presentations –
3. Green Schools –
4. Stream Monitoring –.

Goal: To reach at least 1400 students through presentations and field experiences. In addition, reach at least 12 teachers through training opportunities.

Actual: Had 22 teachers attend the Conservation Tour and 5 teachers attend Project WET training.

Provided 31 presentations to over 2500 students—this is more than double 2015.

Provided 7 field experiences to almost 600 students

Provided rain garden plants to 2 schools through the Green Schools program

Exhibit B

Illicit Discharge Detection and Elimination

Illicit Discharge Detection and Elimination

Description of Program

The City's illicit discharge/connection program incorporates field screening procedures of 20 major outfalls for the purpose of detecting, investigating and eliminating discharges to the MS4 system which are not entirely composed of storm water.

Measurable Goals

Perform field screening of the City's major outfalls to determine if illicit discharges are occurring.

Results Achieved

City staff performed biannual field screening of the 20 major outfalls identified in its plan. There were no illicit discharges detected during the field screening program. City staff responded to 4 spills in 2016. One spill was a SSO which occurred on November 26, 2016, and resulted in approximately 7700 gallons of sewage flowing into Westwood Drive and terrace areas. The Water and Sewer Utility responded to and remediated the spill. The DNR was notified of the occurrence.

The Pewaukee Fire Department responded to the three remaining spills. The first incident occurred on April 27, 2016, and involved diesel fuel leaking from a towed generator along the westbound I-94 off-ramp and Redford Boulevard. The second incident occurred on June 14, 2016, and involved motor oil leaking from a dump truck on eastbound I94 at Springdale Road. The third incident occurred on September 17, 2016, and involved a leaking heating oil tank in the basement of a residential property along Springdale Road. All incidents were remediated.

Describe Any Planned Changes to the Program

City staff anticipate re-evaluating the outfalls selected for field screening in 2017 as well as prioritizing the frequency at which those outfalls are inspected. The program re-evaluation will be consistent with the recommendations provided in DNR program guidance document 3800-2012-01.

Exhibit C

Construction Site Pollutant Control

Construction Site Pollutant Control

Description of Program

The City regulates land disturbing activity according to Chapter 19 of the Municipal code. The construction site erosion control requirements of the ordinance are consistent with the provisions of NR 216 and the performance standards of NR 151 of the State Statutes.

Measurable Goals

The City reviews proposed development for conformance with the erosion control requirements of Chapter 19 of the Municipal Code. The City also conducts weekly and post 0.5-inch rainfall event compliance inspections of permitted construction sites for the purpose of maintaining compliance with the City's ordinance. A report is generated for each inspection performed and provided to the owner/designated representatives. The reports detail any maintenance to be performed, deficiencies noted and/or additional BMP's required to maintain compliance. Sites which are out of compliance are subject to enforcement.

Results achieved

The City issued 5 erosion control permits for new development and conducted approximately 497 compliance inspections in 2016. Two notices of non-compliance were issued in 2016 and no notices of violation or recommendations for fines were issued.

Describe Any Planned Changes to the Program

None at this time.

Exhibit D

Post Construction Storm Water Management

Post-Construction Site Storm Water Management

Description of Program

The City regulates post-construction site storm water management according to Chapter 19 of the Municipal code. The post-construction storm water management requirements are compliant with the performance standards contained in NR 151 of the State Statutes regarding infiltration and TSS reductions. However, the City's ordinance is more restrictive than the performance standards contained in NR 151 in terms of the pre and post-developed discharge rates from the site.

Measurable Goals

The City reviews proposed development for conformance with the post-construction site storm water management requirements of Chapter 19 of the Municipal Code.

Results Achieved

The City issued 3 permits for post-construction site discharges from new development in 2016.

Describe Any Planned Changes to the Program

The City needs to establish a procedure for conducting compliance inspections of post-construction site BMP's.

Exhibit E

Pollution Prevention

Pollution Prevention

The City's permit requires a number of programs be implemented under the Pollution Prevention criteria of its permit. These programs are:

1. Inspection, maintenance and inventory of post-construction site storm water management facilities.
2. Catch basin cleaning program.
3. Street sweeping program.
4. Winter road management program.
5. Leaf management program.
6. SWPPP for municipal facilities.
7. Nutrient management plan for municipal properties with pervious surfaces over 5 acres.
8. Management procedures for unplanned water main discharges.

The following will provide a brief summary of each of the above programs, identify the measureable goals (if any), the results achieved and any planned program changes or improvements.

Inspection, Maintenance and Inventory of Post-Construction Site Storm Water Management Facilities

Description of Program

In 2010 the City identified through aerial photographs approximately 192 facilities within the municipal boundaries that were potential storm water BMP's implemented to control post-developed discharges and/or provide for TSS reduction. A list of the identified facilities and a general location map are provided in Appendix 1. A significant amount of information still needs to be collected from available City records in order to adequately conduct inspections of the facilities. Additionally, a procedure and schedule for conducting the inspections still needs to be developed.

Measureable Goals

The inventory should include such items as: the location, general condition, age, and ownership of each facility; whether a long term maintenance agreement exists for the facility; results of inspections; and completion of recommended maintenance and repairs.

Results achieved

Completion of the inventory and development of a procedure and schedule for conducting inspections remain.

Describe Any Planned Changes to the Program

Establish a schedule for the completion of the inventory and to develop a procedure for conducting inspections.

Catch Basin Cleaning Program

Description of Program

The City identified 12 catch basins along Peterson Drive in 2005 to be inspected and cleaned annually. This list has been expanded to include 69 catch basins along Green Road which were installed as a part of a road construction project in 2013.

Measurable Goals

To insure the continued function of the MS4 system and to remove sediment deposits from the system.

Results achieved

Approximately 5.8 tons of solids were removed as a result of catch basin cleanings in 2016.

Describe Any Planned Changes to the Program

The program needs to be updated to include the catch basins installed along Green Road and to include the maintenance and repairs of the storm inlets and manholes that has been occurring annually over the last several years. Previously storm sewer structures were repaired in conjunction with road reconstruction and road maintenance projects as a part of the City's road program. Due to the number of structures requiring immediate attention, maintenance efforts have been accelerated. From 2015 to present over 209 storm sewer structures have been repaired or replaced.

Street Sweeping Program

Description of Program

The City Highway Department is responsible for the sweeping of the City Streets. The current program consists of sweeping all City streets once in the spring (as soon as the snow melts) and sweeping once in the fall all City streets with a curb and gutter cross-section. Additionally, City crews sweep arterial streets once per week for 1.5 months in the spring (as soon as the snow cover permits).

Measureable Goals

To remove sediment and debris from the road surface and gutter line prior to being transported by runoff into the City's MS4 system.

Results Achieved

Approximately 140 hours were spent sweeping 1202 miles of streets in 2016. This effort removed approximately 46 tons of solids prior to entering into the City's MS4 system.

Describe Any Planned Changes to the Program

None at this time.

Winter Road Management Program

Description of Program

The winter road management program prescribes the methodologies and guidelines for the removal and control of snow and ice buildup on the City's streets. The City Highway Department is responsible for establishing the procedures, methods, equipment and labor to implement the program. Details of the program evolve coincident with the evolution of technology and experience within the department regarding snow and ice removal.

Measureable Goals

The goal of the program is to maintain the roadway in a safe driving condition within the limitations of resources, climactic conditions, preservation of the driving surface and environmental concerns. In balancing these concerns, the department is recommended to strive for "passable roadway" conditions on the driving lanes during the storm event. A "passable roadway" is defined as a roadway surface that is free from drifts, snow ridges and as much ice and snow pack as is practical and can be traveled safely at reasonable speeds.

Secondary to maintaining safe driving conditions is the reduction of the amount of salts used during a winter storm event. To this extent the City has invested in equipment which allows for the use of a salt brine for pre-wetting of salt or as a stand-alone pre-treatment of the pavement surface. As a stand-alone treatment, salt brine helps to prevent ice/snow from bonding to the pavement surface thereby providing for easier removal during plowing operations. When used to pre-wet dry salt prior to application to a pavement surface, the brine helps to maintain the salt on the pavement surface rather than be displaced into the ditch or curb line. In either case the salt brine is anticipated to reduce the amount of dry salt required to achieve a "passable roadway."

Results Achieved

The Highway Department maintains records of each event during the winter season which includes the amount of product used, pertinent weather data, hours worked, number of trucks in service and other measurable data (see Appendix 2 for copies of these records beginning with the 2010-2011 winter season to present). These records are maintained for the purpose of evaluating the program on a yearly basis. Snowfall totals used in the evaluation are taken from the weather station in Milwaukee International Airport (see Appendix 3).

The amount of salt used for a given event or season is highly variable and dependent on a number of conditions such as but not limited to: air temperature, pavement temperature, type of precipitation, intensity of storm, the miles of road maintained and the number of events in a given year. It is therefore difficult to evaluate whether or not the City's salt application is reduced through the use of salt brines for pre-wetting and as a stand-alone pre-treatment. Table 1 below summarizes the City's salt use for the winter seasons beginning with the 2010-2011 winter season. A typical salt brine solution is composed of 23.3 % salt which yields approximately 2.5 pounds of salt per gallon of brine.

Table 1. City of Pewaukee Salt Use for Winter Road Management.

Winter Season	Tons of Salt	Gallons of Salt Brine	Total Tons of Salt	Lane Miles of Roads	Tons of Salt/lane mile
2010-2011	3203*		3203	176.4	18.2
2011-2012	1540	14200	1558	176.6	8.8
2012-2013	3520	22679	3548	177.0	20.0
2013-2014	3160	11490	3174	176.8	18.0
2014-2015	2390	4800	2396	179.4	13.4
2015-2016	1865	5100	1871	183.0	10.2
2016-2017	2850	10690	2863	183.0	15.6

**Total includes salt and salt/sand mixture.*

The City implemented the use of salt brines with the 2011-2012 winter season. Prior to that combinations of salt and salt/sand were used in conjunction with plowing for removal of ice and snow from the municipal streets. As can be seen in from Table 1, overall salt use in terms of tons/lane mile of roadway has generally been less since the use of salt brines. However, this simplistic evaluation is a little misleading as it does not take into account the severity of the winter season or the effort required by road crews to maintain a “passable roadway”.

The Wisconsin DOT has created a Winter Severity Index (WSI) which it utilizes in evaluating the severity of the winter season in relation to its winter management program. The index takes into account factors such as number of snow events, amount of snow, number of freezing rain events, storm durations, and number of incidents (frost runs, drifting and clean up). The index is based upon 100 being an average winter, therefore values in excess of 100 indicate a severe winter and values less than 100 indicate a mild winter. The statewide WSI is shown in Table 2 for each winter season. Additionally, the approximate total snowfall per season is also shown. Overall, the WSI generally coincides with the amount of salt utilized per lane mile to maintain the City’s streets in a passable condition for a winter season. The WSI for the 2016-2017 winter season was not available at the time of this report.

As of the writing of this report, the salt use in tons per lane mile of roadway for 2016-2017 winter season is calculated to be higher than the previous two seasons. This appears to be due in part to a number of icing events this spring which required additional applications of salt/salt brine.

Describe Any Planned Changes to the Program

None at this time.

Table 2. Comparison of Winter Seasons and City of Pewaukee Salt Use.

Winter Season	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Approx. Total Snowfall (inches)	61.9	29.6	45.0	63.4	43.0	39.1	37.6
Number of Events	27	18	44	54	27	18	28
Average Snowfall/event (inches)	2.3	1.6	1.1	1.2	1.6	2.2	
Total Tons of Salt	3203*	1558	3548	3174	2396	1881	2863
Total Hours Worked	NA	596	1272	1863	903	732	1247
Tons of Salt/lane mile of Road	18.2	8.8	20.0	18.0	13.4	10.2	15.6
Average Pavement Temperature per event (degrees F)	NA	NA	NA	20.1	20.9	26.7	25.1
WisDOT Statewide WSI	119.2	75.4	115.13	133.6	99.3	90.4	**

*Total includes salt and salt/sand mixture.

**Not determined at the time of reporting.

Leaf Management Program

Description of Program

The City accepts leaves and grass clippings at the City Recycling Center drop off site located on the lower level of the Pewaukee City Hall campus. Material collected at the site is taken to a facility in Genesee Depot for composting. The City's waste hauler will also pickup leaves and grass clippings for a fee.

Measurable Goals

To provide an alternative means of disposing of leaves and grass clippings for the City residents as opposed to burning or dumping the debris into the City's right-of-way or ditches.

Results Achieved

The City collected approximately 961 tons of leaves in 2016. The City's waste hauler reported collecting approximately 8 tons of yard waste in 2016.

Describe Any Planned Changes to the Program

None at this time.

SWPPP for Municipal Facilities

Description of Program

The City had prepared an update to its Evaluation of Public Works Yard in 2011. The goal of the evaluation was to identify potential sources of non-point pollution and provide recommendations to mitigate these sources. The City provided additional information in last year's annual report regarding planned projects to occur within the City "campus" site which will impact operations on site as well as potentially how storm water is handled. These projects include the construction of a new water tower, the construction of a new salt storage facility and repairs to the City Hall and garage. Since last year only one of these projects has begun; the new water tower.

Measureable Goals

The goal of the program is to reduce non-point pollutant loadings from the City "campus" site.

Results achieved

A bio-filtration basin will be constructed in 2017 as a part of the new water tower project which began construction in 2016.

Describe Any Planned Changes to the Program

Staff are still awaiting guidance from City leadership regarding the remaining projects. A formal update to the program for the City "campus" site will be made as soon as staff receives direction.

Nutrient Management Plan for Municipal Properties with Pervious Surfaces over 5 acres

Description of Program

The City has 5 parks with pervious areas over 5 acres: Balmer Park, Wagner Park, South Park, Nettesheim Park and the Pewaukee Sports Complex. A formal nutrient management plan exists for the Pewaukee Sports Complex which is still under construction (see Appendix 4 for a copy of the plan). The remaining parks do not have a formal plan as of yet.

The current practice for maintaining the turf areas in the City's park system is to contract with a company specializing in turf maintenance to assess the condition of the fields and to apply treatments as recommended. Treatments are typically composed of one or more of the following products: Dimension 2EW (a post emergence herbicide); a Urea Nitrogen-Potash fertilizer 25-0-5; a Urea Nitrogen-Potash fertilizer 17-0-5; Trupower 3 (a selective post emergence herbicide); and Cool Power (a selective post emergence herbicide). In addition, the infields of existing baseball fields receive a non-phosphorous fertilizer treatment (composed of a 33-0-5 NPK ratio) three times a year. Mowings of the established turf

areas occurs on a weekly rotation with mowing of the baseball infields occurring up to three times a week if necessary.

Measureable Goals

The goal of the program is to reduce the amount of nutrients (namely phosphorous) applied to the turf areas and to apply only what is required to maintain a vigorous growth of vegetation.

Results Achieved

The City's current practice and ordinance bans the use of fertilizers containing phosphorous except when establishing new turf areas or when soil tests confirm phosphorous is required.

Describe Any Planned Changes to the Program

Formal plans for the remaining 4 parks will be prepared in 2017.

Management Procedures for Unplanned Water Main Discharges

Description of Program

The City is required by permit to develop a program to mitigate discharges of sediment to its MS4 system from unplanned water main discharges or "water main breaks." The program was developed for Water and Sewer Utility staff who may be responding to such incidents. The priority for staff responding to a water main break is to locate the source of the discharge and to isolate it, or in layman's terms to "shut it off." Temporary erosion control measures, if required, can then be employed to prevent sediment from entering the MS4 system. The program identifies potential erosion control measures that can be employed to contain/limit the discharge of sediment from a water main break.

Measureable Goals

The goal of the program is to reduce the amount of sediment entering the City's MS4 system from an unplanned water main discharge.

Measurable Goals

The City had two unplanned water main discharges last year. The first incident occurred on April 22, 2016 and involved a broken hydrant along Paul Road. The unplanned discharge lasted approximately 30 minutes and released approximately 30,000 gallons of municipal water. The second incident occurred on August 12, 2016, in the vicinity of Green Road and Redford Boulevard. A 3 inch break occurred on the top of the main which was located within the pavement section of the roadway. The unplanned discharge occurred over roughly 45 minutes and resulted in a discharge of approximately 106,000 gallons of municipal water. Both breaks were quickly isolated and did not require the use of temporary erosion controls.

Describe Any Planned Changes to the Program

None at this time.

Appendix 1

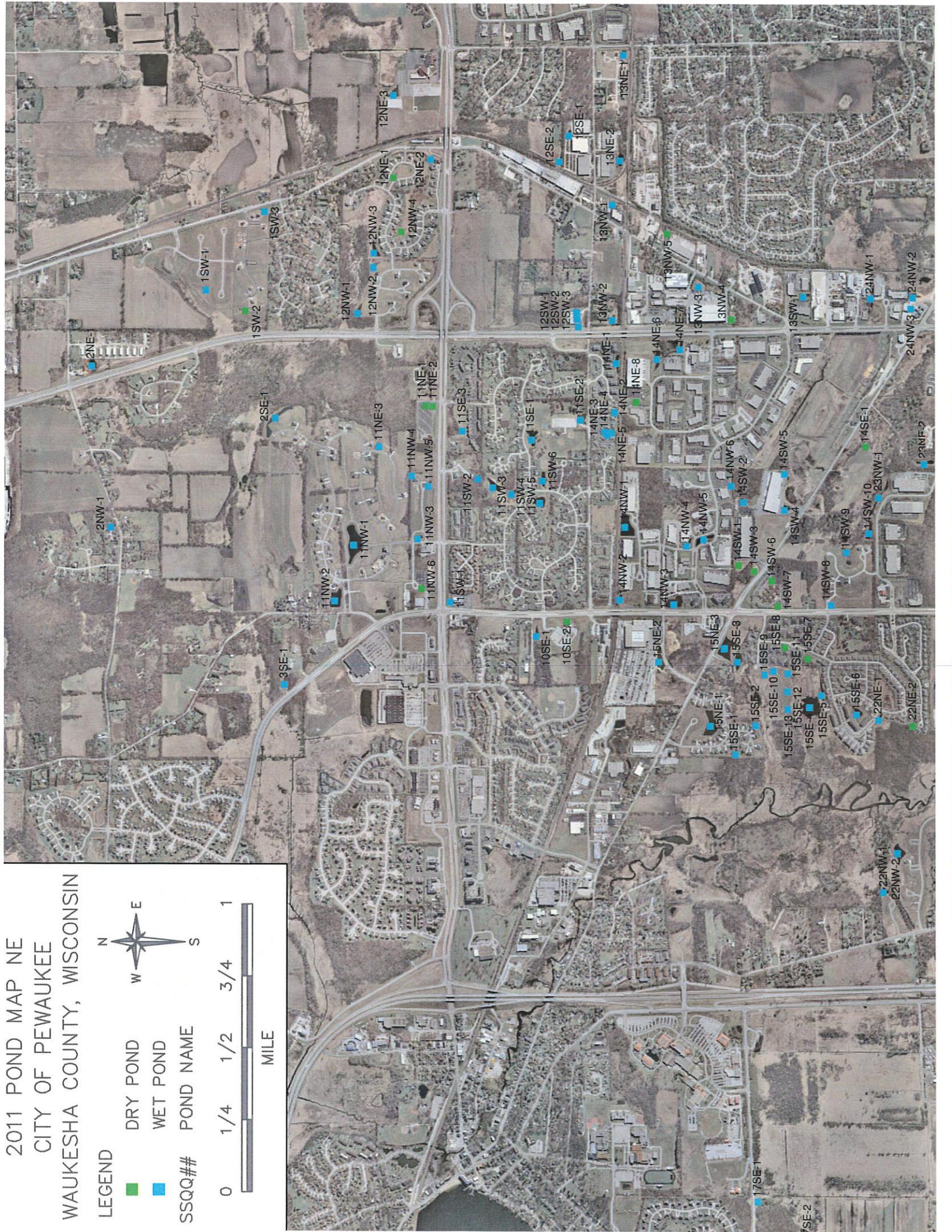
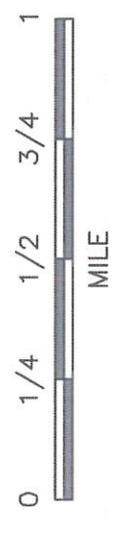
Storm Water Detention Basins

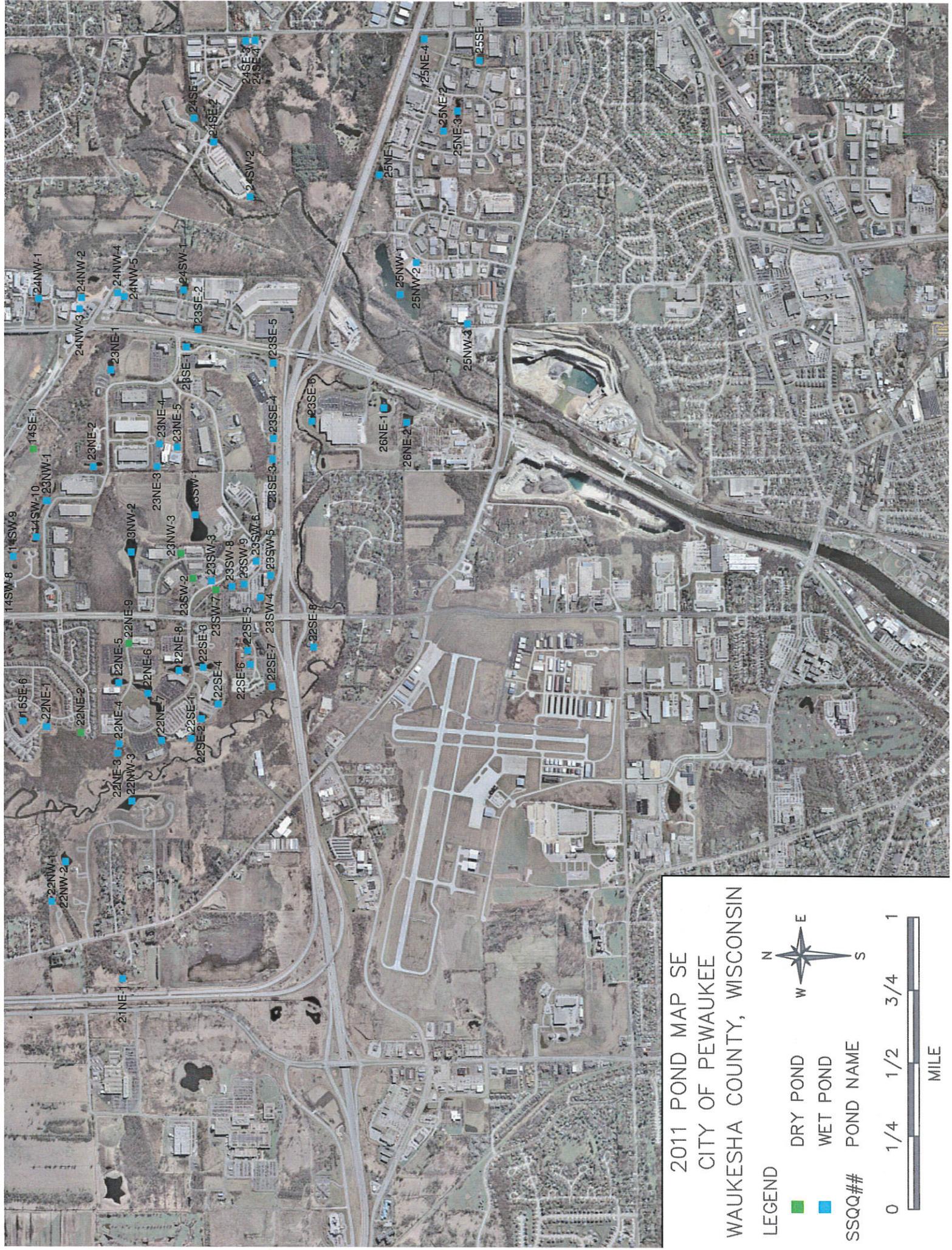
2011 POND MAP NE
 CITY OF PEWAUKEE
 WAUKESHA COUNTY, WISCONSIN

LEGEND

- DRY POND
- WET POND

SSQQ## POND NAME



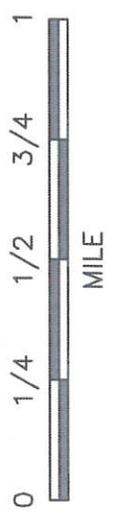


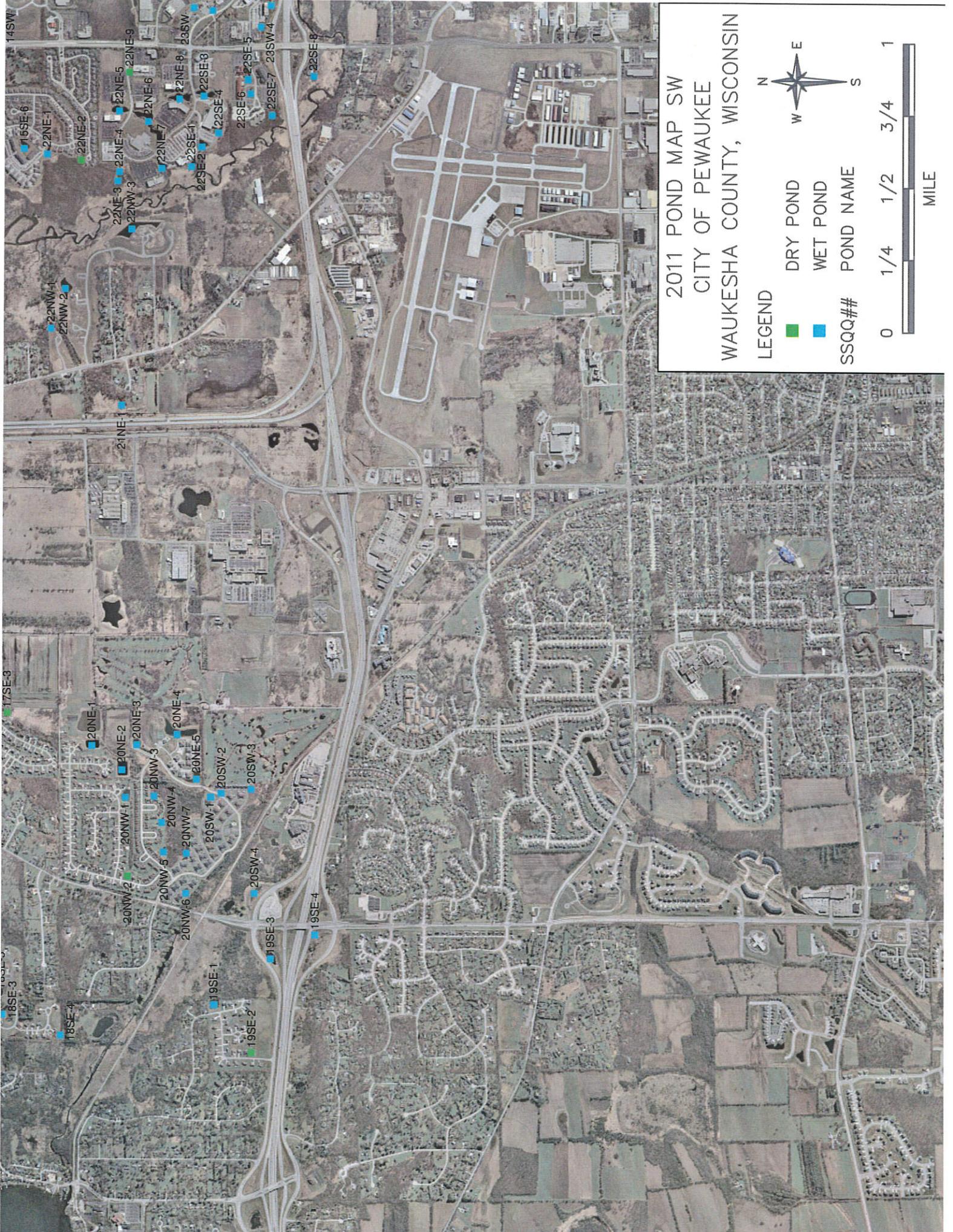
2011 POND MAP SE
 CITY OF PEWAUKEE
 WAUKESHA COUNTY, WISCONSIN

LEGEND

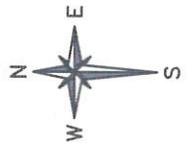
- DRY POND
- WET POND

SSQQ## POND NAME

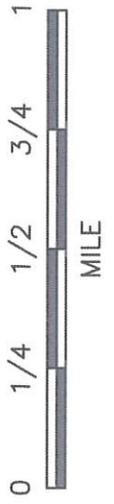




2011 POND MAP SW
 CITY OF PEWAUKEE
 WAUKESHA COUNTY, WISCONSIN



- LEGEND
- DRY POND
 - WET POND
- | SSQQ## | POND NAME |
|--------|-----------|
| 0 | 1/4 |
| 1/2 | 3/4 |
| 1 | |



Appendix 2

Highway Dept. Winter Road Management Records

**Road Salt / Deicers Usage
City of Pewaukee
2010-2011**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
4-Dec-10	Plow	0	Salt	128	23 to 30		3		8		
9-Dec-10	Plow	0	Salt	145	19 to 23		2		8		
12/11/2010 to 12/12/2010	Plow	0	Salt	290	0 to 30		2.5		8		Storm began as drizzle before changing to snow
12/20/2010 to 12/21/2010	Plow	0	Salt	160	25 to 31		2		8		Due to drop in temp, slush and light drizzle on road turned to ice
30-Dec-10	Salting Only	0	Salt	80	16 to 40		Ice		8		Early am event
4-Jan-11	Salting Only	0	Salt	80	10 to 24		1		8		Start flurries at approx 2 pm
5-Jan-11	Salting Only	0	Salt	80	10 to 20		0.5		8		
11-Jan-11	Plow	0	Salt	160	17 to 27		3		8		
14-Jan-11	Salting Only	0	Salt	80	15 to 24		0.25		8		
15-Jan-11	Plow	0	Salt	90	13 to 22		2.5		8		Overnight snowfall
01/17/2011 to 01/18/2011	Plow	0	Salt	260	13 to 30		5		8		Snow start at approx 7 am
22-Jan-11	Salting Only	0	Salt	90	5 to 20				8		
27-Jan-11	Plow	0	Salt	120	5 to 22		3		8		Snow start at approx 4:30 am
29-Jan-11	Salting Only	0	Salt	90	20 to 26		0		8		Ice
31-Jan-11	Plow	0	Salt	90	15 to 23		2		8		Snow start at approx 8:30 am
1-Feb-11	Plow	0	Salt	120	8 to 20		8		9		Blizzard
2-Feb-11	Plow	0	Salt	120	9 to 24		11		9		Blizzard - multiple day clean up
6-Feb-11	Salting Only	0	Mix	90	22 to 30		Trace		8		
7-Feb-11	Salting Only	0	Mix	80	11 to 20		Trace		7		
8-Feb-11	Salting Only	0	Salt	80	0 to 11		Trace		7		
20-Feb-11	Salting Only	0	Mix	160	22 to 32		1		8		Rain, sleet, snow and freezing rain mix event
21-Feb-11	Plow	0	Mix	90	15 to 25		3.2		8		See above
22-Feb-11	Plow	0	Mix	90	19 to 21		2		8		See above
02/26/2011 to 02/27/2011	Plow	0	Mix	180	16 to 23		2		8		
5-Mar-11	Salting Only	0	Mix	80	22 to 33		Trace		8		

**Road Salt / Deicers Usage
City of Pewaukee
2011-2012**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
17-Dec-11	Plow	450	Salt	80	23 to 28		1	28	7	0	Started at 2 am ended 7 am
29-Dec-11	Salting Only	450	Salt	80	28 to 30		Ice	32	8	0	Rain at 4:30 am ended 7:30 am
1-Jan-12	Plow	450	Salt	80	30 to 32		1	30	8	0	Rain @ 4:00 am switched to snow 1"
2-Jan-12	Plow	450	Salt	90	19		1	32	8	0	1" overnight with 40 mph winds
12-Jan-12	Plow	1200	Salt	220	32 to 15		6	52	8	24	10:00 am start 6" total Ended 3:00 am o the 13th.
17-Jan-12	Plow	1000	Salt	160	29 to 23		4	64	8	12	5:30am start snow @6:00am done @ noon
20-Jan-12	Plow	800	Salt	120	15 to 20		3	90	8	0	3" Started @ noon ended @ 7 PM
22-Jan-12	Salting Only	400	Salt	60	32		Ice	24	8	0	Freezing rain started @4:30 PM
23-Jan-12	Salting Only	500	Salt	60	32		Ice	24	8	0	Freezing rain through the the night
28-Jan-12	Plow	450	Salt	80	26		1	32	8	0	10 PM start ended 3AM 1"
9-Feb-12	Pre-Wetting	1100									Pre-storm Pre-Wet
10-Feb-12	Plow	450	Salt	120	32 to 18		3	64	8	0	11 AM start 3PM
13-Feb-12	Pre-Wetting	1050									Pre-storm Pre-Wet
14-Feb-12	Plow	500	Salt	70	29		1	32	8	0	3 PM start 1 AM ended
21-Feb-12	Plow	450	Salt	80	31		2	31	8	0	5AM start 8am ended 2"
23-Feb-12	Pre-Wetting	1425									Pre-storm Pre-Wet
24-Feb-12	Plow	925	Salt	120	30		4	32	8	24	Started 8PM ended 6 Am on 24th
1-Mar-12	Pre-Wetting	1450									Pre-storm Pre-Wet
2-Mar-12	Plow	700	Salt	120	30		5	29	8	0	Started at 2 pm and ended at 6 pm
		Total Brine Used (gal)	Total Salt Used (tons)	1540	Total event hours worked			506	Number of Entries	18	

**Road Salt / Deicers Usage
City of Pewaukee
2012-2013**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
7-Dec-12	Pre-Wetting	1200									Pre-storm Pre-Wet
18-Dec-12	Pre-Wetting	1375									Pre-storm Pre-Wet
18-Dec-12	Plow	500	Salt	140	32 to 34		2	45	9	0	Started at 2 pm and ended at 6 pm
19-Dec-12	Pre-Wetting	650									Pre-storm Pre-Wet
20-Dec-12	Plow	600	Salt	120	32 to 36		6	100	9	0	1 am started with 3 inches by morning; switched to rain 1.30 inches.....
21-Dec-12	Plow	500	Salt	120	28		3	36	9	0	Clean up from night before
28-Dec-12	Plow	500	Salt	100	29		1	27	9	0	7 am start 1 inch
29-Dec-12	Plow	500	Salt	110	27		1	32	8	0	5:30 start 1 inch
29-Dec-12	Plow	600	Salt	110	26		1	27	8	0	All day snow 1 inch
5-Jan-13	Salting Only	400	Salt	120	31		0.5	24	7	0	4 pm start 0.5 inch salt run
13-Jan-13	Plow	500	Salt	110	23		1	30	8	0	1 inch overnight
13-Jan-13	Plow	350	Salt	90	16		0	32	8	0	Hot to re-plow and salt; roads wouldn't melt
23-Jan-13	Salting Only	350	Salt	90	14		0.5	20	7	0	Light drizzling; temperatures dropping
27-Jan-13	Plow	450	Salt	140	28		1	28	8	0	1 inch of snow turned to rain
28-Jan-13	Salting Only	500	Salt	150	32		Ice	32	8	0	Roads refreeze with rain turning to ice
30-Jan-13	Salting Only	500	Salt	150	33		Ice	16	8	0	Rain changing to ice; no accumulation
30-Jan-13	Plow	500	Salt	120	33		2	32	8	0	Snow; 2 inches by mid-morning
30-Jan-13	Plow	400	Salt	100	28		1	32	8	0	1 inch of additional snow with full clean-up
31-Jan-13	Plow	250	Salt	120	16		0.5	24	8	0	Light drizzling with temperatures dropping and high winds
2-Feb-13	Plow	0	Salt	100	13		2	36	8	0	10 pm snow began; snow ends at 5 am
4-Feb-13	Plow	0	Salt	100	10		2	36	9	0	3 am start
4-Feb-13	Plow	0	Salt	80	8					0	Clean up from morning run
5-Feb-13	Plow	500	Salt	80	17		2	36	8	0	Started at 11 am and ended at 1 pm
7-Feb-13	Plow	700	Salt	150	28		7	36	9	0	Snow started at 11 am and ended at 11 pm
8-Feb-13	Plow	500	Salt	80	20			54	9	0	Clean up from 2/7
13-Feb-13	Plow	672	Salt	60	22		3	27	9	0	Pre-storm Pre-wet 3 inches of snow
14-Feb-13	Plow	500	Salt	60	33		Ice	24	9	0	Light rain turning to ice
15-Feb-13	Salting Only	450	Salt	70	13		0.5	24	7	0	Light snow overnight
19-Feb-13	Plow	500	Salt	90	16		2	36	9	0	0.5 inch rain changed over to snow
19-Feb-13	Plow	400	Salt	90	16			40	9	0	Second run for storm slush and ice.
22-Feb-13	Plow	500	Salt	90	30		5	36	9	0	2 am start with 5 inches ending by 6 am
22-Feb-13	Plow	400	Salt	60	32			24	8	0	Clean up from storm
25-Feb-13	Pre-Wetting	1497	Salt								Pre-storm Pre-wet
26-Feb-13	Plow	500	Salt	60	31		7	27	9	0	Start of Storm
27-Feb-13	Plow	500	Salt	36	32			36	9	0	Beginning of clean up
27-Feb-13	Plow	500	Salt	45	32			48	9	0	Finished clean up
28-Feb-13	Salting Only	500	Salt	40	32		0.5	20	8	0	Dusting overnight
5-Mar-13	Plow	500	Salt	50	30		3	36	9	0	9 am snow started; out until rush hour

**Road Salt / Deicers Usage
City of Pewaukee
2013-2014**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
25-Nov-13	Salting Only	250	Salt	70	30	30	2	60	8	0	2" started at 6:30 am and ended at 11:00 am
8-Dec-13	Plow	400	Salt	60	23	21	2	38	9	0	2" started at 10:00 am
9-Dec-13	Plow	300	Salt	70	16	16	3	45	9	0	Snowed throughout the night; 3:00 am start
9-Dec-13	Plow	200	Salt	60	23	25	0			27	
10-Dec-13	Plow	0	Salt	60	5	7	Drifting	28	7	0	30 mph wind from the West
10-Dec-13	Plow	0	Salt	80	5	7	Drifting	12	4	0	30 mph wind from the West
11-Dec-13	Plow	0	Salt	60	7	9	1	27	9	0	1" started at 3:00 am
11-Dec-13	Plow	0	Salt	60	8	17	Drifting	15	5	0	25 mph wind from the Northwest
14-Dec-13	Plow	450	Salt	70	22	25	2	36	9	0	2" started at 2:00 am with another 2" during the day
14-Dec-13	Plow	450	Salt	70	26	28	2	40	9	0	
15-Dec-13	Plow	0	Salt	70	12	17	0.5	27	9	0	0.5" started at 2:00 am
16-Dec-13	Plow	450	Salt	70	15	18	2	27	9	0	2" Clipper started @ 3:30 and ended at 7:30
17-Dec-13	Plow	450	Salt	70	21	20	0.5	27	9	0	0.5" from 5:00 am to 7:00 am
19-Dec-13	Plow	0	Salt	70	29	31	Ice	20	9	0	Rain with freezing rain
20-Dec-13	Plow	0	Salt	90	26	22	Ice	32	9	0	Freezing rain
20-Dec-13	Plow	0	Salt	80	28	28	Ice	27	9	0	Freezing rain
21-Dec-13	Plow	0	Salt	70	26	28	Ice	18	9	0	Freezing rain
22-Dec-13	Plow	900	Salt	120	29	31	9	99	9	0	9" started at 3:00 am
23-Dec-13	Plow	200	Salt	60	22	24	0.5	18	7	0	0.5" overnight
24-Dec-13	Plow	0	Salt	60	0	4	1	27	9	0	1" overnight
25-Dec-13	Plow	200	Salt	60	17	19	2	32	9	0	2" overnight
26-Dec-13	Plow	200	Salt	60	18	19	0.5	36	8	0	0.5" overnight
31-Dec-13	Plow	0	Salt	60	2	8	1	27	9	0	1" overnight
31-Dec-13	Plow	0	Salt	80	7	13	1	24	9	0	1" started at 3:00 pm
1-Jan-14	Plow	200	Salt	60	15	21	2	32	9	0	2" started at 7:00 am
2-Jan-14	Plow	300	Salt	60	18	22	2	27	9	0	2" started at 5:00 am
4-Jan-14	Plow	400	Salt	60	29	30	1	27	9	0	30 mph winds from Southwest and 1" of snow
10-Jan-14	Plow	400	Salt	30	35	34	Ice	27	9	0	Heavy freezing rain
10-Jan-14	Plow	200	Salt	40	36	35	Ice	27	9	0	Heavy freezing rain with 0.5" of ice
11-Jan-14	Plow	400	Salt	40	33	32	Ice	27	9	0	Roads refroze overnight
14-Jan-14	Plow	0	Salt	50	25	24	3	27	9	0	Still snowing back at 3:00 am
15-Jan-14	Plow	0	Salt	50	12	14	0	42	9	0	Total clean-up
16-Jan-14	Plow	300	Salt	40	27	25	0.5	25	9	0	Light dusting
17-Jan-14	Plow	400	Salt	50	18	15	1	30	9	0	1" all day snow
18-Jan-14	Plow	400	Salt	50	15	19	1	24	8	0	1" all day snow
20-Jan-14	Plow	0	Salt	40	13	15	1	25	9	0	1" all day snow
22-Jan-14	Plow	0	Salt	50	13	18	0.5	27	9	0	Light dusting
25-Jan-14	Plow	200	Salt	60	16	12	2	38	9	0	2" with a 40 mph wind and heavy drifting

**Road Salt / Deicers Usage
City of Pewaukee
2014-2015**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
15-Nov-14	Plow	400	Salt	80	24	27	2	27	9	0	2" of snow, very icy
16-Nov-14	Salting Only	300	Salt	60	27	29	1	27	9	0	1" overnight
19-Nov-14	Salting Only	300	Salt	70	18	21	1	24	8	0	1" of snow, 7:00 am run
22-Nov-14	Salting Only	400	Salt	40	30	32	Ice	22	6	0	Light icing
24-Nov-14	Plow	400	Salt	80	28	30	3	36	8	0	3" total precip; rain changing to snow
25-Nov-14	Plow	300	Salt	80	25	28	2	45	9	0	2" overnight
28-Nov-14	Salting Only	300	Salt	60	29	28	Ice	18	9	0	Light icing
2-Dec-14	Plow	300	Salt	80	28	27	1	36	9	0	1" overnight; fast moving system
8-Dec-14	Salting Only	200	Salt	60	34	31	Ice	22	8	0	Light icing
18-Dec-14	Plow	200	Salt	60	31	30	Ice	24	8	0	Light icing
3-Jan-15	Plow	300	Salt	120	32	29	3	36	9	0	3" changing to freezing rain
4-Jan-15	Plow	0	Salt	80	10	13	2	96	9	0	2" of blowing snow
6-Jan-15	Plow	0	Salt	80	0	4	2	45	9	0	2" of blowing snow
8-Jan-15	Plow	0	Salt	120	0	3	3	27	9	0	3" of snow with high winds
8-Jan-15	Plow	0	Salt	80	-2	0	1	30	9	0	1" during rush hour
9-Jan-15	Plow	0	Salt	80	6	8	2	30	9	0	2" overnight
9-Jan-15	Plow	0	Salt	80	8	12	0	21	7	0	Drifting and slash run
21-Jan-15	Plow	300	Salt	90	27	28	2	24	9	0	2" overnight
25-Jan-15	Salting Only	300	Salt	60	27	26	0.5	21	9	0	Light dusting of snow
26-Jan-15	Plow	400	Salt	70	24	26	1	24	9	0	1" overnight; fast moving system
29-Jan-15	Salting Only	100	Salt	50	34	31	Ice	18	9	0	Light icing
1-Feb-15	Plow	0	Salt	120	10	14		40	9	0	Beginning of storm
1-Feb-15	Plow	0	Salt	120	10	14		40	9	0	
2-Feb-15	Plow	0	Salt	150	8	10	9	54	9	0	9" total accumulation with high winds
3-Feb-15	Plow	0	Salt	100	13	15	2	30	9	0	2" from fast moving system
18-Feb-15	Salting Only	0	Salt	100	3	5	1	30	9	0	Light dusting of snow
25-Feb-15	Plow	0	Salt	100	12	16	1	20	9	0	1" from fast moving system
3-Mar-15	Plow	300	Salt	120	30	27	2	36	9	0	2" from fast moving system
Total Brine Used (gal)		4800		2320	Average Air Temp per Entry (deg F)	19.48	Average Pavement Temp. per Entry (deg F)	20.89	Number of Entries	27	

Total Event hours worked
903

**Road Salt / Deicers Usage
City of Pewaukee
2016-2017**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
4-Dec-16	Plow	850	Salt	160	31	29	2	27	9		Long storm start 8:00am and end 8:00pm. Clean up included.
9-Dec-16	Pre-storm	750		0							Pre-storm treatments.
10-Dec-16	Plow	400	Salt	80	24	22	4	50	10		Start 7:00pm on the 10th.
11-Dec-16	Plow	300	Salt	80	28	27	5	55	10		End 8pm on the 11th.
14-Dec-16	Plow	0	Salt	60	6	6	0	16	6		30mph winds - drift run.
15-Dec-16	Plow	0	Salt	80	8	10	0	16	4		Drift run.
16-Dec-16	Plow	0	Salt	140	10	11	7	64	8 to 10		Light dusting followed by long duration storm starting at 2:00pm.
17-Dec-16	Plow	0	Salt	170	16	18	6	88	10 to 9		Still snowing.
18-Dec-16	Plow	0	Salt	80	8	9	2	50	9		Storm ends.
19-Dec-16	Plow	0	Salt	60	12	14	0	36	9	50	
20-Dec-16	Plow	100	Salt	60	26	30	0	36	9	50	
23-Dec-16	Plow	300	Salt	80	31	30	4	50	9		Fast moving storm.
3-Jan-17	Salt	100	Salt	90	34	34	ice	32	8		Light icing.
9-Jan-17	Salt	200	Salt	60	34	31	1	24	9		Pre-storm salting.
10-Jan-17	Plow/salt	400	Salt	260	34	31	1	84	9		1 inch snowfall overnight followed by freezing rain.
11-Jan-17	Salt	400	Salt	120	28	26	ice	27	9		Freezing rain.
16-Jan-17	Salt	900	Salt	260	34	32	ice	76	9		Freezing rain.
17-Jan-17	Salt	300	Salt	80	34	32	ice	27	9		Freezing rain.
18-Jan-17	Salt	100	Salt	40	32	32	ice	15	5		Freezing rain.
25-Jan-17	Salt	300	Salt	60	32	32	ice	36	9		Light snow.
26-Jan-17	Plow	300	Salt	80	27	29	1	36	9		1 inch overnight.
30-Jan-17	Plow	1400	Salt	70	27	29	1	18	9		Pre-storm treatments followed by a salt run.
31-Jan-17	Plow	300	Salt	80	29	29	2	36	9		2 inches overnight.
3-Feb-17	Pre-storm	1390		0							
12-Feb-17	Salt	300	Salt	60	31	32	ice	22	8		Light freezing rain.
24-Feb-17	Salt	400	Salt	140	30	31	ice	36	9 to 8		Light freezing rain.
25-Feb-17	Plow	200	Salt	100	23	25	1	30	9		1 inch overnight.
1-Mar-17	Plow	400	Salt	120	32	28	2	47	9		1 inch in morning followed by light snow all day.
13-Mar-17	Plow	400	Salt	130	22	25		81	9		Start storm with 3 inches and continues to snow.
14-Mar-17	Plow	200	Salt	50	18	19	6	32	9		Storm wraps up with 6 inch total.

Total Brine Used (gal) **10690** Total Salt Used (tons) **2850** Average Air Temp per Entry (deg F) **25.04** Average Pavement Temp per Entry (deg F) **25.11** Number of Entries **28**

Total Event Hours Worked **1147**

Appendix 3

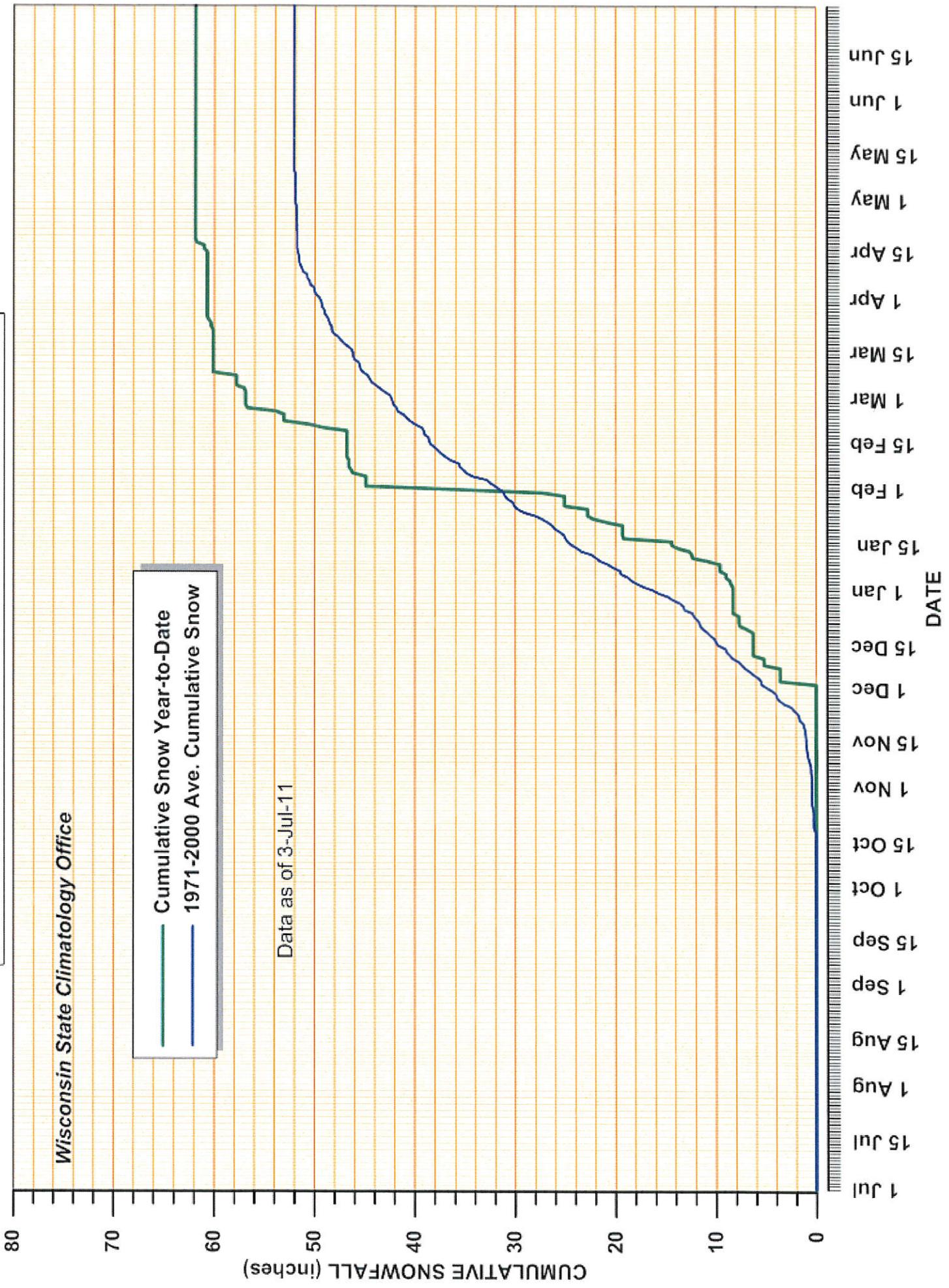
Milwaukee Airport Snowfall

Cumulative Snowfall: Milwaukee 2010-2011

Wisconsin State Climatology Office

Cumulative Snow Year-to-Date
1971-2000 Ave. Cumulative Snow

Data as of 3-Jul-11

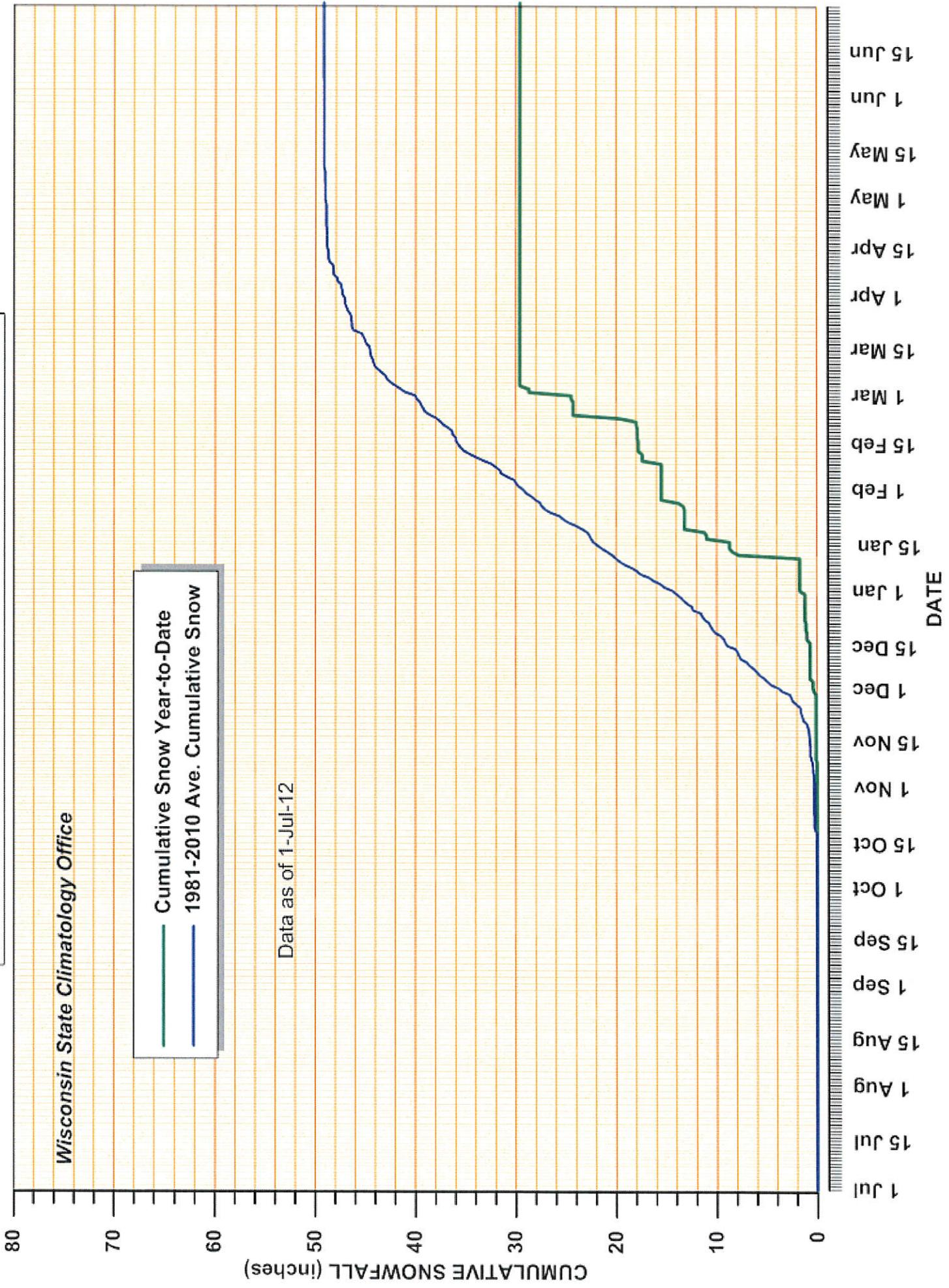


Cumulative Snowfall: Milwaukee 2011-2012

Wisconsin State Climatology Office

Cumulative Snow Year-to-Date
1981-2010 Ave. Cumulative Snow

Data as of 1-Jul-12

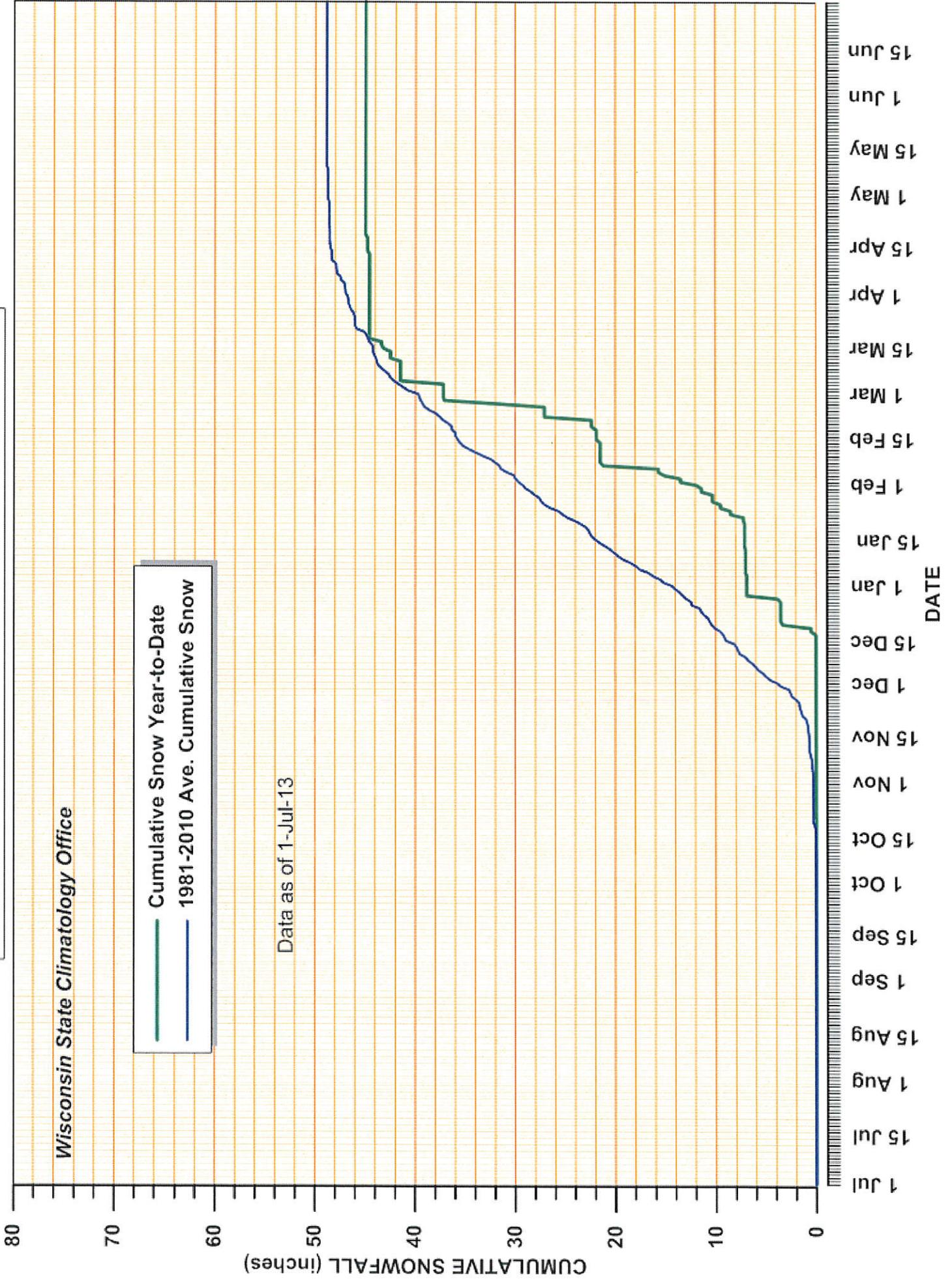


Cumulative Snowfall: Milwaukee 2012-2013

Wisconsin State Climatology Office

Cumulative Snow Year-to-Date
1981-2010 Ave. Cumulative Snow

Data as of 1-Jul-13

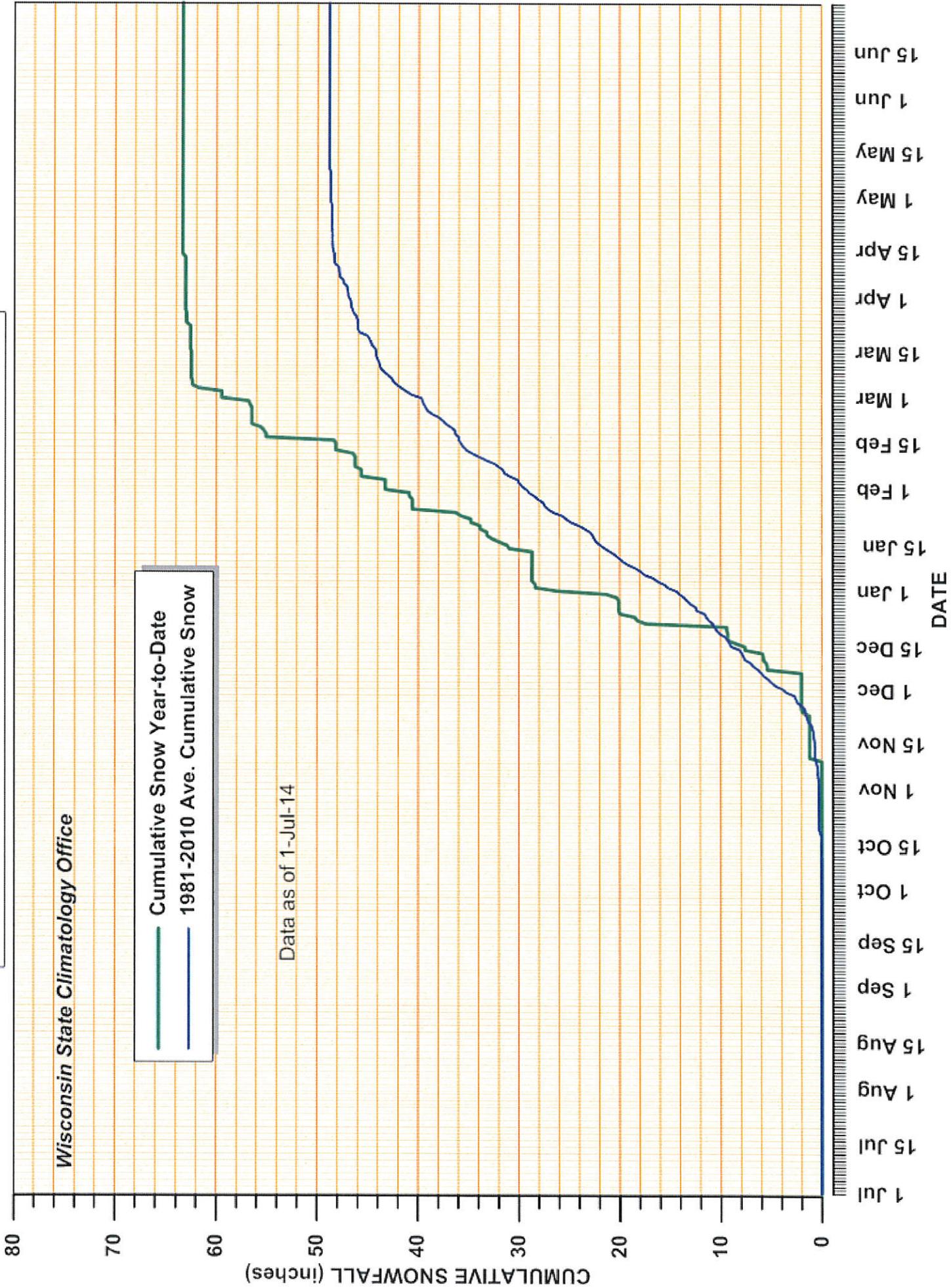


Cumulative Snowfall: Milwaukee 2013-2014

Wisconsin State Climatology Office

Cumulative Snow Year-to-Date
1981-2010 Ave. Cumulative Snow

Data as of 1-Jul-14

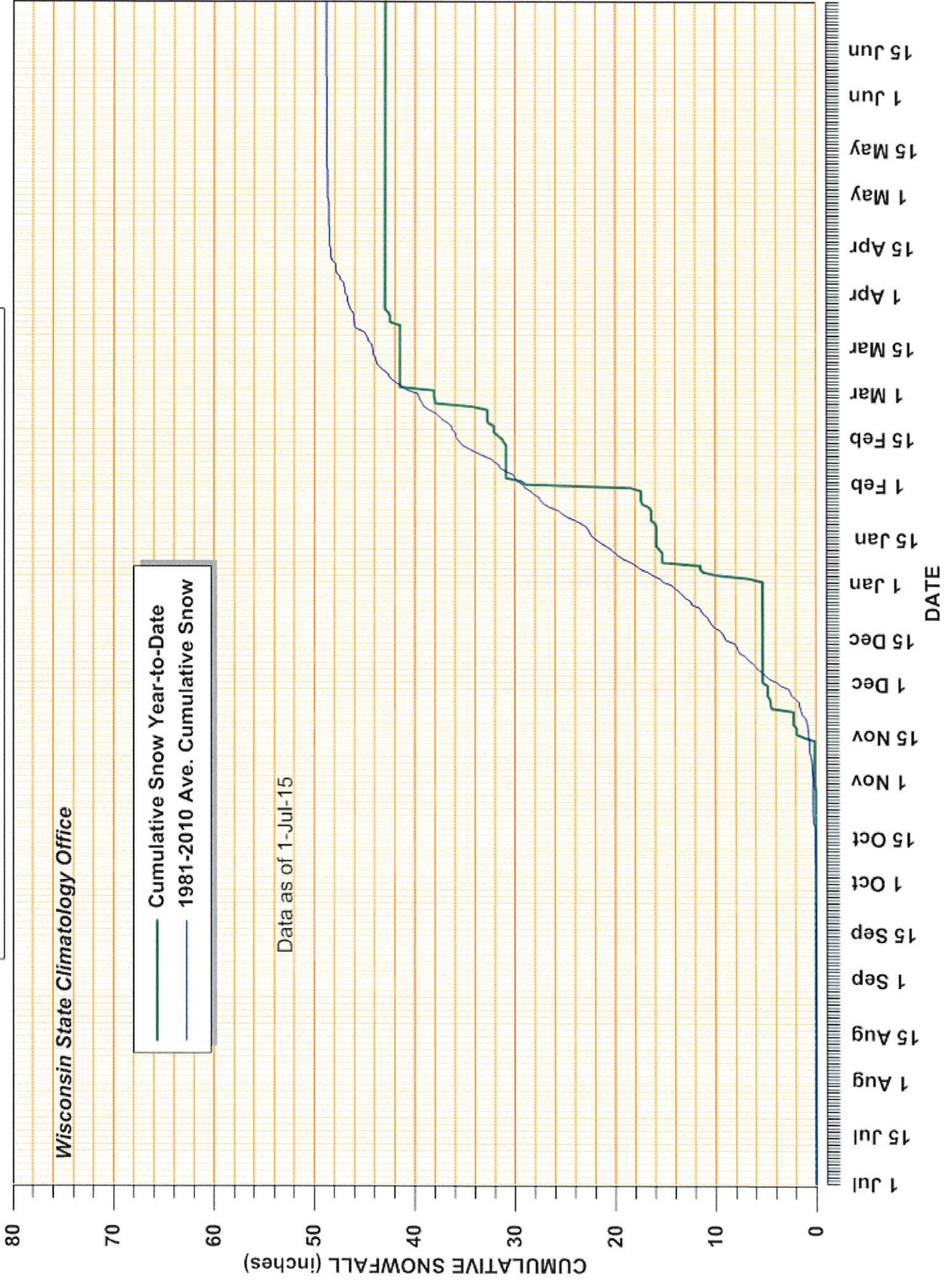


Cumulative Snowfall: Milwaukee 2014-2015

Wisconsin State Climatology Office



Data as of 1-Jul-15

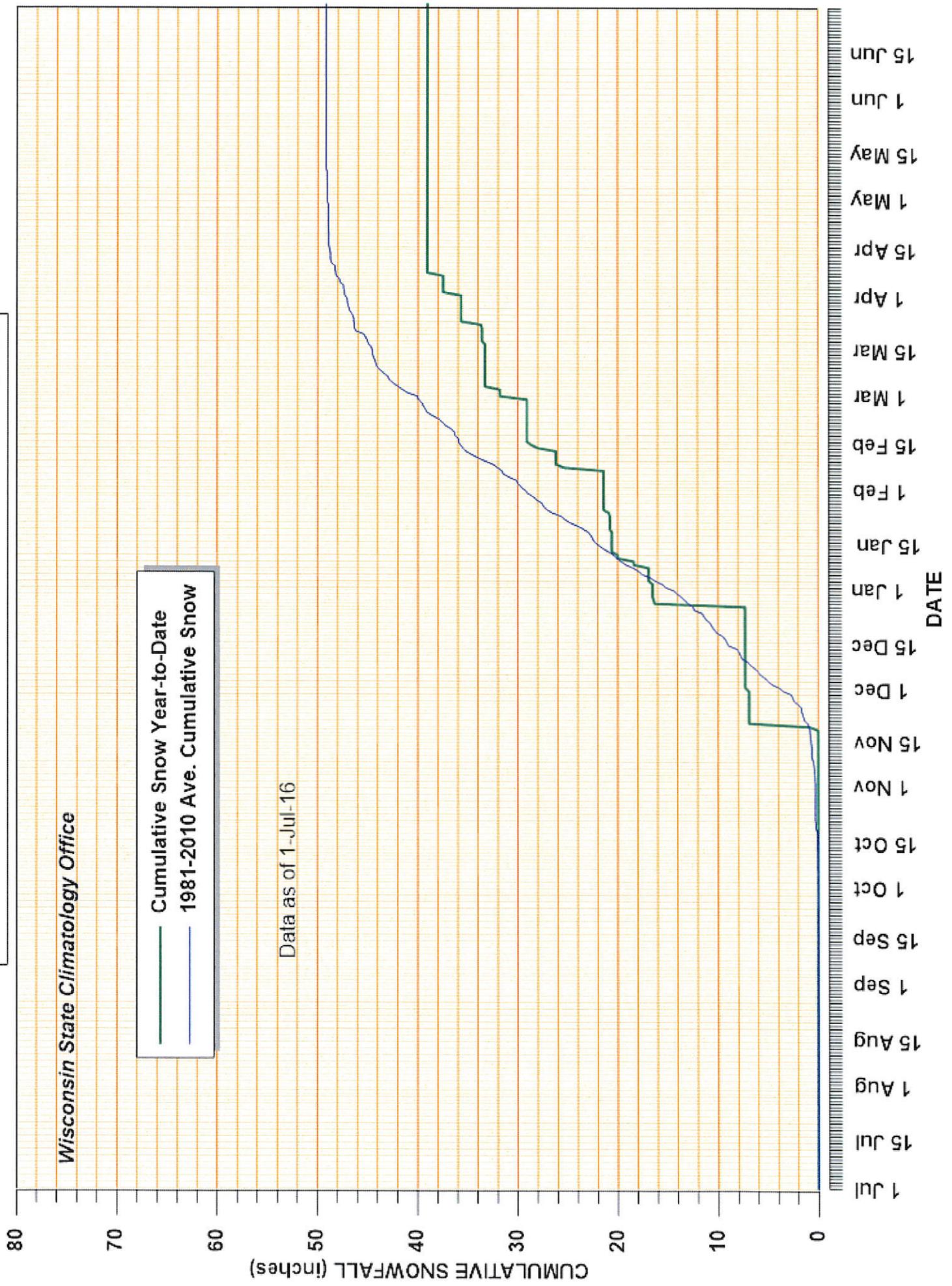


Cumulative Snowfall: Milwaukee 2015-2016

Wisconsin State Climatology Office

— Cumulative Snow Year-to-Date
— 1981-2010 Ave. Cumulative Snow

Data as of 1-Jul-16

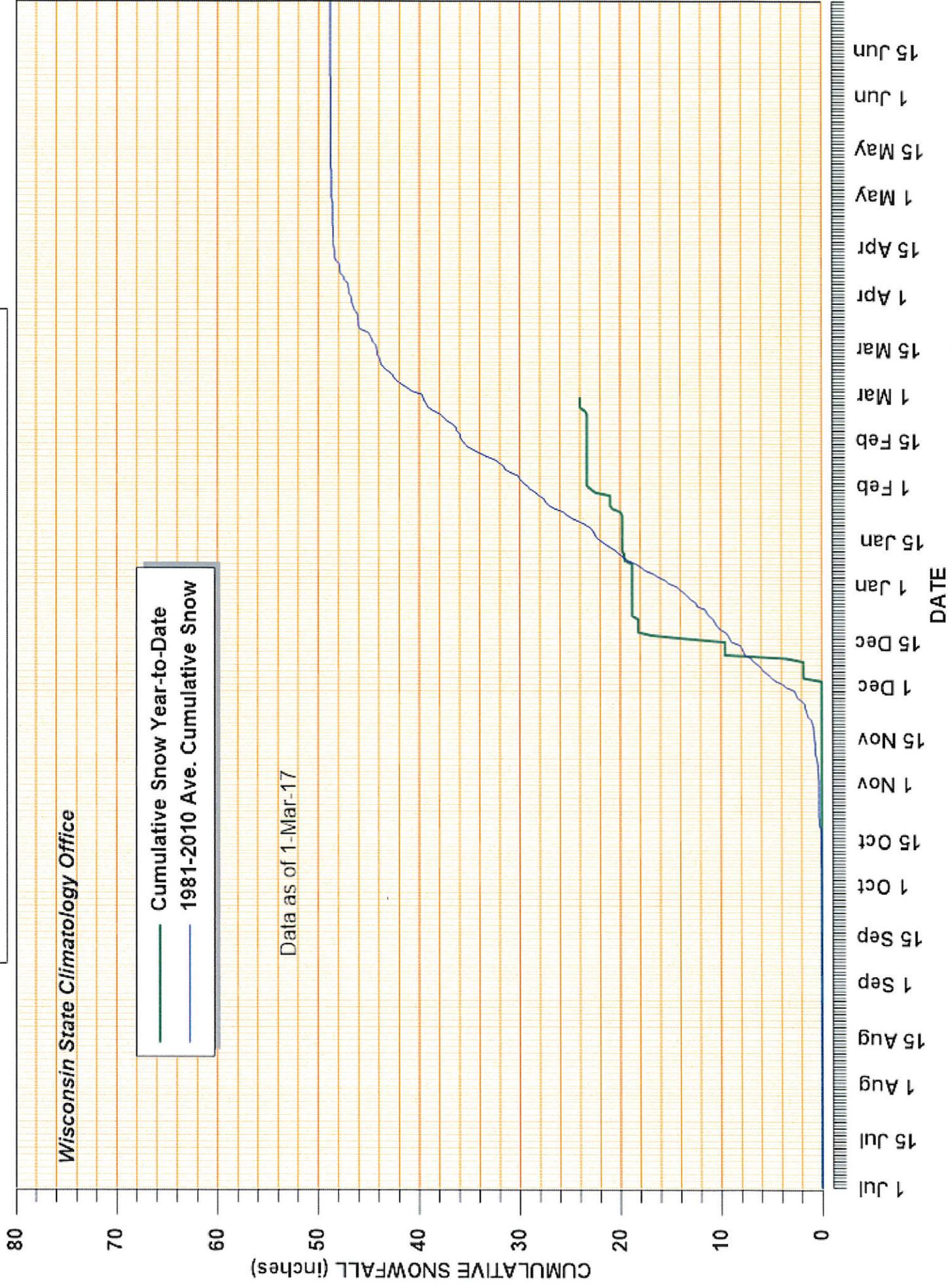


Cumulative Snowfall: Milwaukee 2016-2017

Wisconsin State Climatology Office

Cumulative Snow Year-to-Date
1981-2010 Ave. Cumulative Snow

Data as of 1-Mar-17



Appendix 4

Pewaukee Sports Complex Nutrient Management Plan

City of Pewaukee Sports Complex

Proposed Nutrient Management Plan

Description

The City is proposing to construct a sports park on an approximately 60 acre parcel located on the northwest corner of Lindsay Road and State Trunk Highway 74 in the north half of Section 2, Town 7 North, Range 19 East, Waukesha County, Wisconsin. The sports park will include 2 baseball diamonds, 2 softball diamonds, 2 playgrounds, a large greenspace for various soccer fields, 3 storm water management facilities, and associated parking areas and amenities (See Figure A).

The park is bordered on the east by Sussex Creek and its associated wetlands. The stream is classified as a 303d listed stream and is impaired by total phosphorous. This nutrient management plan will provide guidelines for the maintenance of the various turf grasses within the park to provide an acceptable level of performance for the planned sports activities of the park while trying to reduce pollutant loadings, namely phosphorous, to Sussex Creek.

Soil Conditions

Soils on the site consist of Lamartine silt loams (LmB), Hochheim loams (HmB2), Brookston silt loams (BsA), Mayville silt loams (MoA) and Theresa silt loams (ThB, ThB2). These soils are shown on Figure B. The general soil profile from the test borings performed on site consists of a 12 to 14 inch layer of topsoil overlying a 2 to 4 foot layer of native soils consisting of either silty clay loam or silty clay. The silty clay and silty clay loam soils overlay layers of either loamy sand or silty sand. Weathered limestone bedrock generally underlie the loamy sand and silty sand layers. Depth to the seasonal high ground water table is shown on Figure C. The water table for the site was estimated to be deeper than the depths of the test borings conducted for the geotechnical report (11 to 15 feet below grade). Perched water may exist on the surface of the lime stone bedrock.

The site requires extensive grading with the addition of variable amounts of fill to bring the site to the grades shown on Figure A. This will mean the general configuration and consistency of the upper layers of the soil profile will change from what it is today. City staff would propose to sample various areas within the park as portions of the project reach final grade. Figure D identifies locations within the sports complex where soil samples are proposed to be taken for analysis. Once the analysis is complete, the specific soil nutrient requirements for the park can be determined.

Turf Establishment

Turf within the sports park will be established through seeding. The plans currently call for two basic seed types: Seed Type A for all turf grass lawn areas and ball fields which is to be Reinders Athletic Field 80-20 Elite seed blend; and Seed Type B for pond perimeters and natural areas which is to be DOT Mix No. 40 (see Figures E, F and G). Seed Type A consists of a mix of Kentucky Bluegrass and Perennial Ryegrasses. Seed Type B consists of Kentucky Bluegrass, Fine Leaf Perennial Ryegrass, Creeping Red Fescue and Hard Fescue. An exception to the seed mixes described above will be the seeding requirements for Pond 2, Pond 3 and the swale along the eastern portion of the site. A Reinders Native Wetland Mix will be used for seeding the side slopes of Pond 2 and the bottom and side slopes of Pond 3. The seed mix is comprised of 50 percent grasses and sedges (Big Blue Stem, Fox Sedge and Virginia Wild Rye) and 50 percent wild flowers (Bergamot, Black-eyed Susan, Blue Vervain, Canadian

Milkvetch, Cup Plant, New England Aster, Ox-eye, Prairie Blazing Star, Red Milkweed, Stiff Goldenrod, Wild Golden Glow and Yellow Coneflower). The swale would be planted with a Reinders Short Native Grass Mix consisting of Little Blue Stem, Sideoats Grama, Canada Wild Rye, Prairie June Grass, Prairie Drop Seed and Annual Rye.

Areas to be seeded will be graded to a smooth uniform grade overlain by 6 inches of topsoil (except for the infiltration basin portion of Pond 1 which will receive no topsoil). Depending on the results of the analysis of the soil samples, a starter fertilizer will be added for those areas receiving Seed Type A or B. Unless otherwise indicated from the results of the soil sampling, no fertilizer is anticipated for the native wetland and grass areas. Mulch will be applied over newly seeded areas with slopes less than 4 feet horizontal to 1 foot vertical. Slopes of 4 feet horizontal to 1 foot vertical and greater and swales will receive erosion control matting.

Establishment of the native seed areas will take approximately 3 years. During the first year, invasive species and weeds will need to be mowed an average of three times or whenever they reach a height of 18 inches. This will prevent the fast growing weeds from dropping seed and from shading out native seedlings. The first mowing (late June to early July) should be to a height of 4 inches, the second mowing (late July to early August) should be to a height of 8 inches, and the final mowing (late August to early September) should be to a height of 12 inches. Gradually increasing the mowing height will ensure the new native seedlings are not harmed.

During the second year if weeds begin to grow, mow them once to a height of 12 inches early in the spring. Mowing should occur before the weeds begin to flower. Common weeds like Curly Dock, Burdock, Canada Thistle, Wild Parsnip or Sweet Clover can also be eliminated by spot spraying with glyphosate or hand pulling. During the third year either a prescribed burn or mowing may be conducted in March or April. If mowing, mow to a height of 6 inches and remove the thatch. Spot spray weeds if they continue to be a problem.

Turf Maintenance

Soil samples shall be taken once every five years to establish the nutrient requirements to maintain the turf areas. The plan will be revised as needed to address any changes in the nutrient requirements for the turf areas. Similar to the current practice, the City will likely contract with a company specializing in turf maintenance to assist with assessing the nutrient needs of the turf areas and applying the necessary products.

The current practice for maintaining the turf areas in the parks is to contract with a company specializing in turf maintenance to assess the condition of the fields and to apply treatments as recommended. This is done once a year for all turf areas. Treatments are typically composed of one or more of the following products: Dimension 2EW (a post emergence herbicide); a Urea Nitrogen-Potash fertilizer 25-0-5; a urea Nitrogen-Potash fertilizer 17-0-5; Trupower 3 (a selective post emergence herbicide); and Cool Power (a selective post emergence herbicide). In addition, the infields of the existing baseball fields within the City parks receive a non-phosphorous fertilizer treatment three times a year. The fertilizer used is composed of a 33-0-5 NPK ratio.

Mowings of the established turf areas occurs on a weekly rotation with mowing of the baseball infields occurring upto three times a week if necessary. Clippings are typically left on site.

Maintenance of the native areas after establishment will require either a prescribed burn every 2 to 3 years or a cutting to a 6 inch height. If mowing, the thatch must be removed. Weeds can be pulled or spot sprayed as they appear.

Groundwater Preservation

Fertilizers will not be applied during saturated or frozen soil conditions. Fertilizers applied to turf areas draining to the infiltration basin on the west side of the site shall not contain more than 50 percent water soluble nitrogen unless applying less than or equal to one-quarter pound per 1000 square feet at one time.

Surface Water Preservation

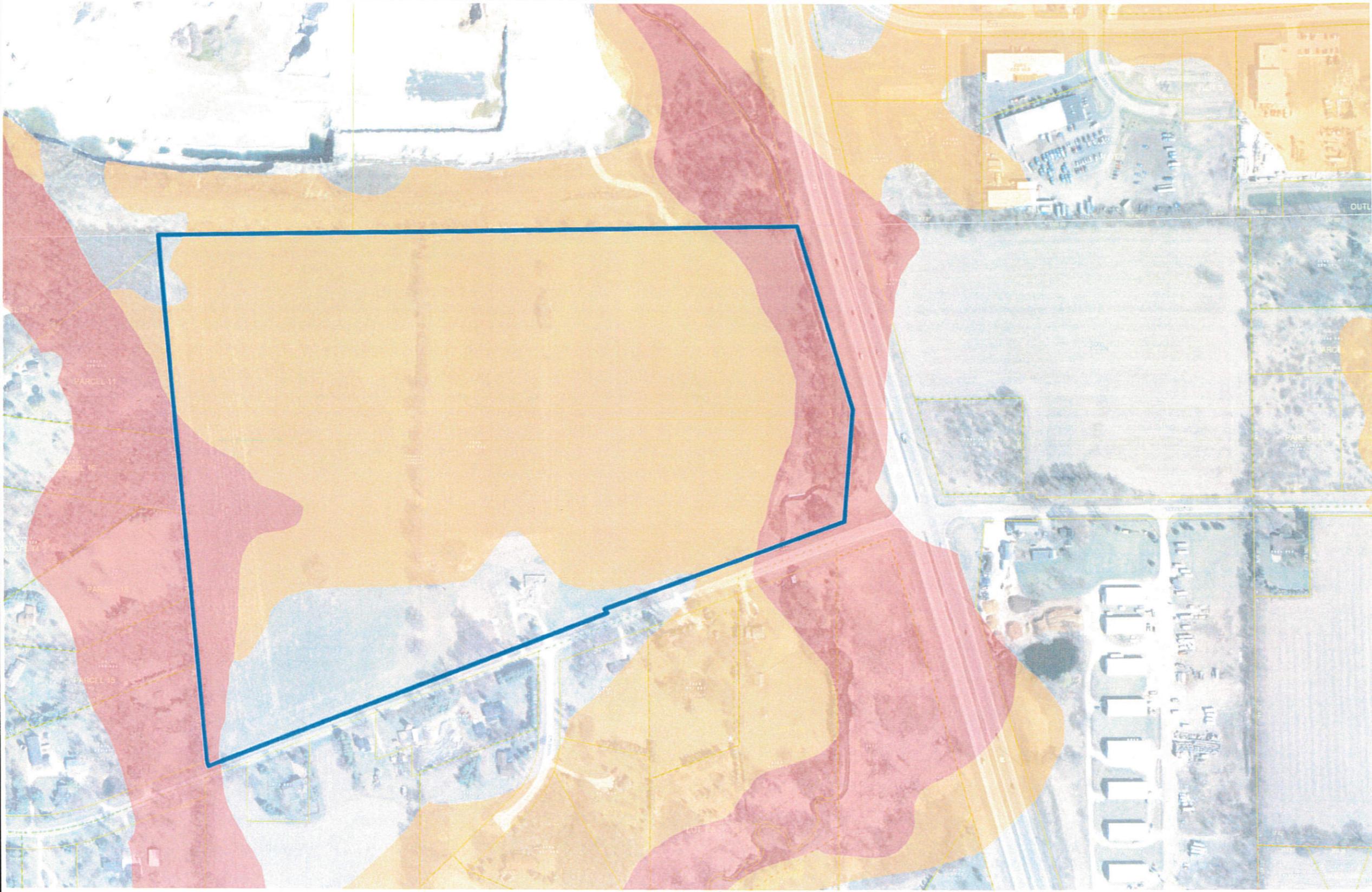
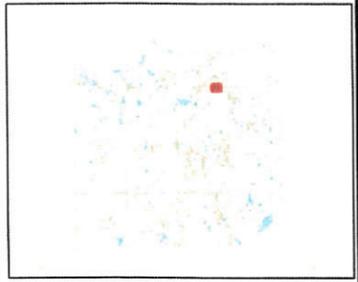
Fertilizers should not be applied on frozen or saturated soils, wetlands, surface water or impervious surfaces (such as paved areas and sidewalks). The areas along the eastern portion of the park are planted with native vegetation and do not require applications of fertilizer. Only minor applications of herbicides may be required to control weeds or invasives. For areas draining to Ponds 2 and 3, use only fertilizers with at least 50 percent water soluble nitrogen. Do not apply water soluble fertilizers when a runoff event is expected within 24 hours of application, unless irrigation is used shortly after the fertilizer is applied.

Operations and Maintenance

Nutrient applications to the turf areas will be documented. Documentation shall include the name of the product applied, product content, the rate at which the product was applied, the timing (date and time of day), method of application and weather conditions. The application equipment shall be calibrated to achieve the required application rate. Fertilizers stored on City property shall be protected from weather, accidental leakage or spillage. If a spill occurs, appropriate actions to contain and remediate the spill will be made. Follow manufacturer's recommendations for the safe handling, storage and disposal of the material. Spills involving over 250 lbs of dry or 25 gallons of liquid fertilizer must be immediately reported to the Wisconsin Department of Natural Resources (1-800-943-0003). Spills of lesser amounts need not be reported unless the spill has adversely impacted or threatens to adversely impact the air, lands or waters of the state.

Impacts on Storm Water Management Facilities

Proper management of the nutrients applied to the turf areas of the sports complex should reduce the amount of nutrients being discharged to Detention Pond 3 and subsequently Sussex Creek (excessive nutrients discharged to surface waters lead to algae blooms and excessive aquatic plant growth). However, detention ponds in a similar sized park within the City have required periodic applications of an algaecide (Cutrine-Plus) and a herbicide (Reward) to control algae blooms and aquatic growth. Within the Sussex Creek watershed this practice is undesirable as the treated algae and plant material left within the pond would begin to break down. Nutrients from the decay of the treated plants would be released and ultimately discharged from the pond to Sussex Creek. As an alternative, the pond will be monitored in the first 3 seasons to determine if nutrient loadings to the pond are producing increased algae and undesirable aquatic plant growth. Should an increase be noted, it is recommended that a mixture of aquatic plants (such as Illinois pondweed, Slender naiad or Flatstem pondweed) and emergent plants (such as Soft-stem bulrush, Lilies/spatterdock or Pickerel weed) be established in the pond that will assist in the uptake of any excess nutrients while not growing excessively.



Legend

Dep. to Seas. Hi Water Table

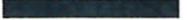
- 0: 0-12
- 12-24; 12-36; 12-72; 24-42; 24-72 >60

Plats

- Assessor Plat:
- CSM
- Condo Plat
- Subdivision Plat

FIGURE C: DEPTH TO SEASONAL HIGH WATER TABLE

0 300.00 Feet



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Notes

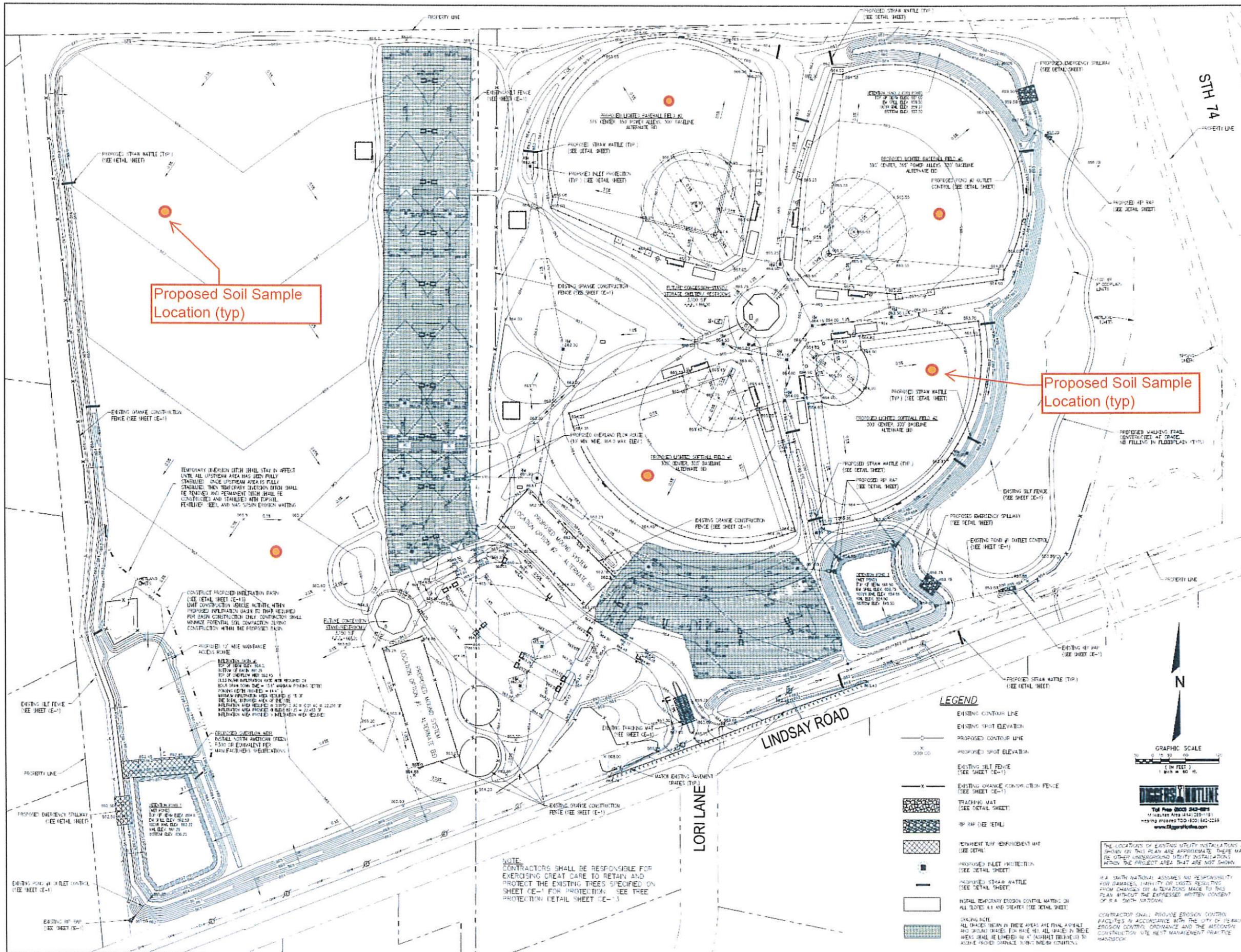
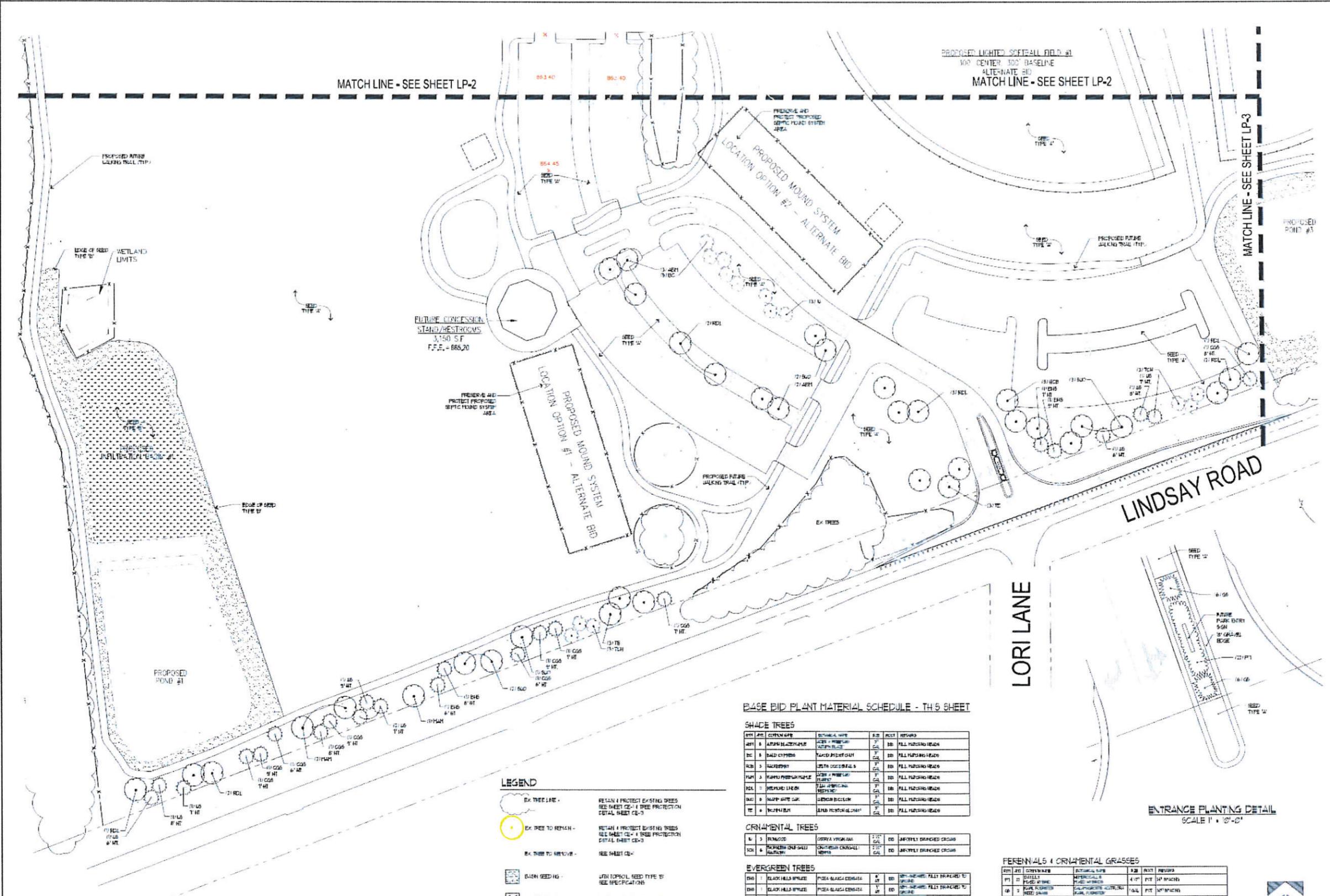


FIGURE D: SOIL SAMPLE LOCATIONS



DATE	DESCRIPTION
11-15-14	CITY REVIEW

Beyond Surveying
and Engineering

1515 W. Deerpark Street, Pewaukee, WI 53006-3000
TEL: 414.353.8800 FAX: 414.353.8801 WWW: www.beyondsurvey.com

PEWAUKEE SPORTS COMPLEX
CITY OF PEWAUKEE, WI

LANDSCAPE PLAN
SOUTH

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BY B. SMITH NATIONAL INC.

DATE: 11/15/2014
SCALE: 1" = 40'
JOB NO: 3090143

PROJECT MANAGER:
TIM BARBEAU, P.E.

DESIGNED BY: ALS
CHECKED BY: ENS

SHEET NUMBER
LP-1

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MILWAUKEE, WI 53015

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LEGEND

	EX. TREE LINE -	RETAIN & PROTECT EXISTING TREES SEE SHEET CE-1 TREE PROTECTION DETAIL SHEET CE-3
	EX. TREE TO RETAIN -	RETAIN & PROTECT EXISTING TREES SEE SHEET CE-1 TREE PROTECTION DETAIL SHEET CE-3
	EX. TREE TO REMOVE -	SEE SHEET CE-1
	BASEN SEEDING -	WITH TOPSOIL, SEE TYPE 'B' SEE SPECIFICATIONS
	BASEN SEEDING -	NO TOPSOIL, SEE TYPE 'B' SEE SPECIFICATIONS

BASE BID PLANT MATERIAL SCHEDULE - THIS SHEET

SHADE TREES

SYM	LAZY	CURRENT NAME	BOTANICAL NAME	SIZE	POST	REMARKS
JE1	8	ATLANTA BLUE OAK	QUERCUS PRINCEPIUM	3" DB	20'	FULL PRUNING HEAD
JE2	8	SALE CYPRESS	TAXUS DISTICATA	3" DB	20'	FULL PRUNING HEAD
JE3	3	WAX MYRTLE	MYRTUS CALLENDULA	3" DB	20'	FULL PRUNING HEAD
JE4	3	WAXED YEW	TAXUS PRINCEPIUM	3" DB	20'	FULL PRUNING HEAD
JE5	3	WAXED YEW	TAXUS PRINCEPIUM	3" DB	20'	FULL PRUNING HEAD
JE6	3	WAXED YEW	TAXUS PRINCEPIUM	3" DB	20'	FULL PRUNING HEAD
JE7	3	WAXED YEW	TAXUS PRINCEPIUM	3" DB	20'	FULL PRUNING HEAD

ORNAMENTAL TREES

OR1	3	FRAXINO	FRAXINUS AMERICANA	3" DB	20'	APPROXIMATE BRANCHED CROWN
OR2	3	WAXED YEW	TAXUS PRINCEPIUM	3" DB	20'	APPROXIMATE BRANCHED CROWN

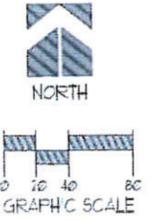
EVERGREEN TREES

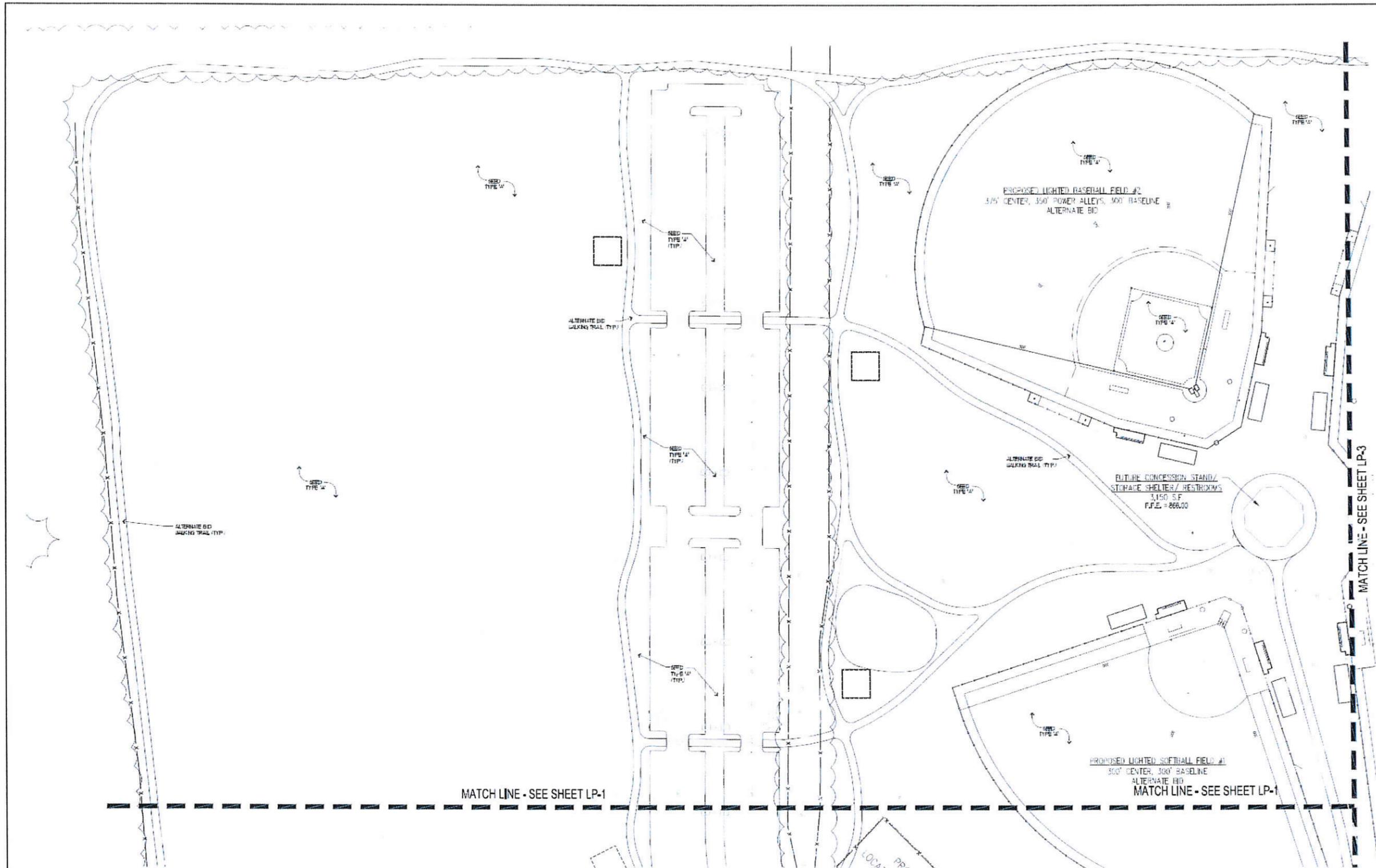
ET1	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET2	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET3	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET4	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET5	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET6	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET7	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET8	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET9	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET10	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET11	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET12	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET13	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
ET14	1	BLACK HOLE SPINULE	PIXA SPINOSA	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP

PERENNIALS & ORNAMENTAL GRASSES

SYM	QTY	CURRENT NAME	BOTANICAL NAME	SIZE	POST	REMARKS
PG1	2	ORNAMENTAL GRASS	POA PRATIENSIS	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP
PG2	2	ORNAMENTAL GRASS	POA PRATIENSIS	4" DB	20'	APPROXIMATE FULL BRANCHED TO TOP

NOTE:
CONTRACTORS SHALL BE RESPONSIBLE FOR EXERCISING GREAT CARE TO RETAIN AND PROTECT THE EXISTING TREES SPECIFIED ON SHEET CE-1 FOR PROTECTION. SEE TREE PROTECTION DETAIL SHEET CE-13.





<p><i>Beyond Surveying and Engineering</i></p> <p><small>10240 W. Burnhamwood Road, Wauwatosa, WI 53090-3998 414.770.1000 Fax 414.770.3444 www.beyondsurveying.com</small></p>	<p>PEWAUKEE SPORTS COMPLEX CITY OF PEWAUKEE, WI</p> <p>LANDSCAPE PLAN NORTH</p>
<p>DATE: _____</p> <p>DESIGNATION: _____</p>	
<p>© COPYRIGHT 2014 R. A. SMITH NATIONAL, INC.</p> <p>DATE: 11/13/2014</p> <p>SCALE: 1" = 40'</p> <p>JOB NO: 3090143</p> <p>PROJECT MANAGER: TIM BARBEAU, P.E.</p> <p>DESIGNED BY: ALS</p> <p>CHECKED BY: CNS</p> <p>SHEET NUMBER LP-2</p>	



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- LEGEND**
- EX-TREE LINE - RETAIN & PROTECT EXISTING TREES (SEE SHEET CE-1) TREE PROTECTION DETAIL SHEET CE-13
 - EX-TREE TO REMOVE - RETAIN & PROTECT EXISTING TREES (SEE SHEET CE-1) TREE PROTECTION DETAIL SHEET CE-13
 - EX-TREE TO REMOVE - SEE SHEET CE-1

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING GREAT CARE TO RETAIN AND PROTECT THE EXISTING TREES SPECIFIED ON SHEET CE-1 FOR PROTECTION. SEE TREE PROTECTION DETAIL SHEET CE-13.

FIGURE F: LANDSCAPE AND SEEDING PLAN

Exhibit F

SWPPP for Public Works Yard

City of Pewaukee 2015 Update of the Public Works Yard

General

Site conditions and operations at the City of Pewaukee Public Works Yard remain largely unchanged since the 2011 update, with the exception of the addition of a brine tank along the east side of the parks maintenance shop and repairs made to the salt storage shed. However, this will change as a number of planned projects will occur which will change the site conditions and operations at the yard. Unfortunately, the timing, nature and scope of some of these planned projects are in a state of flux as City Staff work with the City's leaders to better define the aspects of these projects relative to future needs. The following discussion will provide a brief update as to the planned projects anticipated for the site. A formal update will be made as staff receive more guidance from the City's leaders.

A copy of the Evaluation of Public Works Yard – 2011 Update is attached (as Appendix A) for reference as site conditions and operations remain largely unchanged.

Water Tower Project

The City awarded a contract on December 21, 2015, for the construction of a new 750,000 gallon elevated water tank to replace the existing 250,000 gallon elevated tank on the City Hall site. Construction of the new tank will involve significant grading around the new foundation, the installation of a retaining wall, the construction of an access drive, installation of new water main, miscellaneous drainage improvements and construction of a small bioretention basin. The existing water tower will be dismantled and removed under a separate contract. See Appendix B for a copy of the site plans and the water main plans.

Impacts to the operations of the yard due to the construction of the new tank are not fully known at this time. It is presumed the contractor will be storing equipment and materials in the southwest portion (west of the impound lot) of the site. This may necessitate moving some operations or equipment to an offsite location, but this is not known at this time.

City Hall Roof Project

Various improvements are planned for City Hall and the Highway Departments main garage (attached to City Hall). These improvements involve the relocation and replacement of a portion of the HVAC units, replacement of the roof over City Hall and the main garage, reconstruction or bracing of the north wall of the main garage, construction of a retaining wall north of the main garage, miscellaneous drainage improvements along the perimeter of the building, and extension of sanitary sewer to the pump house at the base of the existing water tower. See Appendix C for a copy of the site plans.

This contract is currently out for bid, but it is unclear if the project will be awarded or, if awarded, the scope of the proposed improvements to be included in the contract. It is speculated the cost of the project as currently laid out will exceed the budgeted funds available. Therefore there is a great deal of uncertainty regarding the scope and timing of the project. The impact to the operations of the public works yard is unclear at this time.

Salt Storage Facility

The City's current salt storage facility has recently received structural repairs to the walls, supporting members and roof trusses. Repairs were necessary due snow loading of the roof coupled with the outward pressure of the salt stored within the structure. The current capacity of this facility has been vastly reduced

from previous years. Only a small supply of salt in the short term will be stored on the City Hall Site while the bulk of the City's salt will be stored at the Waukesha County Highway facility.

Staff's recommendation is to build a new salt storage facility either on the City Hall site or in another centralized location. In addition to the salt storage facility staff would also be looking to put under roof equipment as well as a number of the loose material piles to isolate them from rain/runoff. This can be accommodated in some building configurations with the inclusion of a lean-to along the side of the building. Once the new facility would be constructed, the old salt storage shed would be converted to cold storage. A product brochure showing potential building configurations is included in Appendix D.

Staff has not received a direction from City leadership how to proceed at this point. Construction of an entirely new facility on the City hall site will necessitate reserving additional space to address storm water management. This will further limit the amount of space available for other operations, such as recycling. Constructing a new facility off site would free up space on the City Hall site which could be used to address water quality.

Summary

Updated photographs of the public works yard are attached in Appendix E. A formal update to the 2011 evaluation will be prepared as staff receive more information and direction regarding current and future projects at the City Hall site.

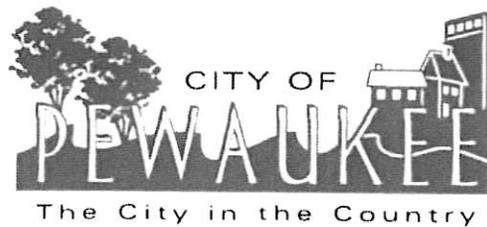
Appendix A

Report

Evaluation of Public Works Yard – 2011 Update

City of Pewaukee

Prepared for the:



City of Pewaukee
W240 N3065 Pewaukee Road
Pewaukee, WI 53702

Prepared by:

AECOM
1020 N. Broadway, Suite 400
Milwaukee, WI 53202

March 2011

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1. GENERAL INFORMATION AND OVERVIEW

This evaluation describes site conditions and operations at the City of Pewaukee's Public Works Yard, which relate to or impact stormwater management. This report documents current conditions at the site, as well as measures that can be taken to reduce nonpoint source pollution from the public works yard.

This document was originally prepared in March 2006, and submitted to WDNR as part of the 2005 NR 216 Annual Report. In 2011, it has been updated to meet the requirements of the revised Upper Fox River permit, and to document changes that have occurred on site.

1.1 Location and Contact Information

The City of Pewaukee is located in central Waukesha County, in the (Illinois) Fox River watershed. The City's Public Works Yard site is located on the west side of Pewaukee Road, between Watertown Road and Capitol Drive, at W240 N3065 Pewaukee Road. Map 1 shows the location of the public works yard.

The contact information for the Public Works Yard is:

Name of Facility: City of Pewaukee – Public Works Yard
Facility Address: W240 N3065 Pewaukee Road
Pewaukee, WI 53702
Facility Contact: Jeff Weigel
Director of Public Works
(262) 691-0770

Main activities that occur on the site include maintenance and repair of municipal vehicles, and storage of city trucks, equipment, and supplies. The site is also the recycling center, and a drop off location for used oil, yard waste, and other materials. Included on the site are five buildings. In addition, there are several stock piles, debris piles, and dumpsters located on the site. Map 2 shows an overview of the site.

Located on the same City-owned parcel, and connected to the main public works garage, is Pewaukee City Hall. Several parking lots for City Hall use are also located on the parcel. These areas are not considered part of the public works yard and are not included in this evaluation.

1.2 Stormwater Management Goals

The City of Pewaukee has made it a priority to reduce nonpoint source pollution to surface and groundwaters from urban stormwater sources. This evaluation is a part of comprehensive citywide stormwater management plan to identify nonpoint source pollution loadings and investigate mitigating measures. This report identifies opportunities for rainfall and stormwater runoff to come in contact with potential pollution sources. These observations will help the city to better understand how materials storage and management on site can impact water quality and lead to better materials management and pollution prevention measures. A review of existing best management practices (BMPs) and housekeeping practices in place on the site will lead to recommended improvements and additional controls to limit stormwater pollution.

1.3 Pollution Prevention Responsibility

The Highway Superintendent in charge is responsible for monitoring all activities on the site including pollution prevention activities. It is part of his regular duties to investigate potential stormwater pollution problems. In compliance with its municipal stormwater discharge permit, the City is expanding its staff training to include pollution prevention efforts. The City recently hired a new Highway Superintendent.

2. POTENTIAL SOURCES OF POLLUTANTS

2.1 Drainage

The City of Pewaukee Public Works Yard site is approximately 6.8 acres in size. Two main drainage basins exist at the facility. The South Basin drains by sheet flow and two asphalt flumes to a ditch on the north side of the Canadian Pacific railroad tracks. The West Basin drains by swales and sheet flow to a low area at the west end of the site, and then onto the Canadian Pacific Railroad right-of-way. The ground surface of the West Basin is irregular, and there are several low spots and depressions where stormwater appears to pool until it infiltrates or evaporates. This infiltration/ponding caused by the rough grading and undulations of the yard helps reduce runoff volumes from the site during smaller storm events, though these are not intentional stormwater BMPs.

Table 2-1 lists the drainage basins, approximate amount of land cover, and conveyance type. The drainage system of the Public Works Yard is shown on Map 2. This map identifies drainage basins, buildings, drainage structures, outdoor storage areas, structural control measures, and other relevant features.

**TABLE 2-1
DRAINAGE BASINS**

DRAINAGE BASIN	LAND COVER (ACRES)				TOTAL (Acres)	OFF-SITE CONVEYANCE TYPE
	Vegetation	Roof	Gravel/Dirt	Pavement		
WEST	3.1	0.4	1.4	0.9	5.8	Swales / sheet flow
SOUTH	0.1	0.3	0.2	0.4	1.0	Sheet flow / asphalt flumes

Building drainage is characterized by the following:

- **Main Garage:** The building has a sloped roof. The portion of the building adjacent to the public works yard has no downspouts, and runoff spills to the ground surface below, into either the South or West drainage basins. The building floors slope inward towards sanitary sewer floor drains.
- **Parks Maintenance Shop:** The building has a sloped roof with no downspouts and discharges stormwater directly to the ground surface. The floor drains to a floor drain connected to the sanitary sewer system.
- **Salt Storage Shed:** The building has a sloped roof with no downspouts and discharges stormwater directly to the ground surface. There is no internal drainage system.
- **Police Storage Building:** The building has a sloped roof with no downspouts and discharges stormwater directly to the ground surface.
- **Water Utility Wellhouse/Garage:** The building has a sloped roof with no downspouts and discharges stormwater directly to the ground surface.

2.2 Facility Site Description, Activities, and Inventory of Exposed Materials

The following section identifies the materials stored in each area of the facility, operations at the site, and the general interaction between areas of interest on the site. The majority of activities take place in the

Main Garage Building, the Parks Maintenance Shop and the general yard area. Table 2-2 summarizes uses of each building.

**TABLE 2-2
BUILDING INFORMATION**

BUILDING	ROOF AREA (SQ. FT.)	DRAINAGE	USE/MATERIALS STORED
Main Garage	9,800 (garage portion only)	Direct runoff to yard surface	Vehicle maintenance and storage; supply storage (paints, lubricants, etc.)
Parks Maintenance Shop	10,400	Direct runoff to yard surface	General storage and maintenance, some equipment
Salt Storage	5,000	Direct runoff to yard surface	Road salt, salt/sand mix
Auto Storage	2,200	Direct runoff to yard surface	Autos / vehicles
Water Utility Wellhouse /Garage	1,700	Direct runoff to yard surface	Municipal well, water utility truck storage

2.2.1 Building Activities

Most maintenance activities including cleaning of municipal vehicles take place in the Main Garage Building. Floors in this building are sloped away from openings to the yard and drain to sanitary inlets in the middle of each of the rooms. Similar activity take place in the Parks Maintenance Shop, which also has a floor drain to a sanitary sewer.

The fully covered and enclosed salt storage shed is used for salt storage, and salt truck loading during the winter months. As salt is loaded or removed from the salt shed, material could potentially be spilled or tracked outside of the covered area. Overspill material is swept back into the shed as needed.

The Auto Storage building was formerly used by the City of Pewaukee Police Department to hold police evidence. It also stored all-terrain vehicles and a boat used for lake patrol by the police. Now that the Police Department has been disbanded and the Waukesha County Sheriff's Department handles policing in the City, this building will be used for general vehicle storage.

The Water Utility Wellhouse/Garage contains a municipal well. The water utility pick-up truck is housed in this building. The building also contains one control station for cell phone antennas located on the adjacent water tower.



Main Public Works Garage



Salt Storage Shed

2.2.2 Yard Activities

Activities in the yard are primarily city public works and police operations, with some citizen activities associated with the recycling and yard waste operations. Specific activities in the yard area include the movement, placement and storage of yard wastes and brush, construction/ landscaping materials, and

public works materials and equipment. Examples of materials present include gravel, topsoil, compost, street sweeping debris, concrete debris from construction, asphalt millings, pipes, buoys, and precast brick and concrete pieces. Portions of the yard are used for day-to-day parking of employee and city vehicles. The yard is also used for long-term storage of public works vehicles and equipment such as trailers.

A fueling station near the Main Garage Building consists of two pumps with storage tanks. One pump supplies unleaded gasoline, and the other pump supplies diesel fuel. The fueling station is used every business day to fuel public works equipment, fire and other municipal vehicles. A containment barrier exists around each fuel tank.



Fueling Station

For citizen recycling activities, residents enter on the east side of the yard and drive to the appropriate recycling or yard waste station. Because of past problems with illegal dumping, a fence is being installed this spring to limit access to the recycling area. This fence location is shown on the updated site plan. Dumpsters are available for certain recyclables such as paper, glass, aluminum cans and scrap metal. Brush is placed in piles. Used motor oil is poured into a tank that is pumped out as needed.



Recycling Dumpsters

Recently, an enclosed dumpster has been added to the recycling area for electronics recycling. This is part of the Waukesha County electronics recycling program.

The City hauls snow to the west end of the Public Works yard occasionally. It is estimated that snow is hauled in one to two times a year. Snow is hauled in after large snow events, or when too much snow accumulates in cul-de-sacs and along the lake area where snow storage is unavailable.

2.3 Spills and Leaks

Minor spills and leaks are treated with shop towels or absorbent materials as appropriate. Very small spills are cleaned with soap and water. If a large spill occurs, the Pewaukee Fire Department will be notified and they will treat/remove the spill. The City has documented procedures in the event of an emergency. In 2005, the City submitted their Spills Program proposal to WDNR as required by their NR 216 permit.

2.4 Summary of Potential Pollutant Sources

Based on site inspections of the facility, the most likely sources of nonpoint source pollution are as follows:

- The slope from the public works yard to the railroad track ditch has severe to moderate erosion in some locations. Numerous rivulets and gullies are apparent along this slope, and there are several bare and eroded areas at the top of the slope. This erosion was prominent during a winter visit to the yard; it may be reduced in warmer months when more vegetation has grown. This lack of a gutter and downspout on the Parks Maintenance Shop may contribute to this problem.



Slope to Ditch, South of Parks Maintenance Shop



Top of Slope, Between Parks Maintenance Shop and Police Storage Building

- A large area on the west side of the yard consists of mud and gravel parking and storage areas with no vegetation. High flows could cause sediment to wash off of this area. However, numerous areas of ponding and puddles in this area should promote some infiltration, and reduce runoff during small storm events.

- Outside storage areas of brush, compost, street sweeping debris, asphalt millings and topsoil are uncovered. Some of these storage piles drain off the site via sheet flow or nearby swales.
- The fueling area could potentially contribute nonpoint source pollution from minor spills and leakage, or a failure of the containment barrier in a major spill. The area surrounding the fueling area drains south approximately 30 feet over asphalt pavement, through one of two asphalt flumes and then into the drainage ditch along the railroad tracks.
- Although most vehicle washing is done indoors, with wash water draining to sanitary sewers, vehicle washing is occasionally done outside. Wash water from outside washing could potentially leave the site. Other general vehicle activity on the paved areas of the site could contribute nonpoint source pollution.
- Trash and debris is common in the railroad ditch. The City should contact the railroad to remove trash from this ditch.



Railroad Ditch, Looking East

- The salt storage shed is a potential risk for nonpoint source pollution, though it is completely enclosed with a roof and walls. Overspill of material can occur, but the material is generally swept back into the shed as necessary.

3. BEST MANAGEMENT PRACTICES

3.1 Source Area Control

To the maximum extent practicable, and to the extent it is cost effective, the use of source area control best management practices designed to prevent stormwater from receiving nonpoint source pollution will be used.

3.1.1 Sediment and Erosion Control

Areas prone to soil erosion should be protected, and the soil kept out of stormwater discharge leaving the site. As described earlier, significant erosion is occurring on the slope to the railroad ditch. Although not all of the eroded area is on city property (some is within the railroad right of way), the City should work with the railroad to revegetate and/or stabilize this slope. It appears that installing a gutter and downspout on the south roof of the Parks Maintenance Shop could reduce erosion in back of this building.

3.1.2 Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly work environment. This will reduce the potential for detrimental materials to come in contact with stormwater. The following practices are included in the City's good housekeeping routine.

- Garage areas are generally maintained in a clean and orderly manner.
- Salt overspill is swept back into the salt shed as needed.
- Most maintenance work, materials use and washing is done indoors, in areas that do not drain to the stormwater system.
- The paved area of the yard will be swept once every month, or as conditions warrant.

3.1.3 Preventive Maintenance

Preventive Maintenance involves the regular inspection, testing and cleaning of facility equipment and operational systems. Inspections help to uncover conditions that might lead to a release of materials, and should result in maintenance to prevent such as release. The following equipment/activities are included in the preventive maintenance program:

- Inspection and repair of municipal vehicles and other equipment
- Oil and fluids used for maintenance, as well as tanks for waste fluids, are stored appropriately in the garages

3.1.4 Spill Prevention and Response Procedures

Spills and leaks together are the largest industrial sources of storm water pollution. Therefore, proper material handling procedures and storage requirements for significant materials are followed. As discussed earlier, minor spills and leaks are treated with shop towels or absorbent materials as appropriate. The City of Pewaukee stores absorbent materials, towels, brooms and other equipment for spill response throughout the yard. All material used to absorb a minor spill will be placed in a container and disposed of in an appropriate manner. All employees working in the yard area shall be made aware of proper procedures to follow for spill response.

If a large spill occurs, the Pewaukee Fire Department will be notified and they will treat/remove the spill. The City has documented procedures in the event of an emergency. In 2005, the City submitted their Spills Program proposal to WDNR as required by their NR 216 permit.

3.1.5 Bulk Storage

The City's salt storage area is completely enclosed and covered.

The storage of some bulk materials such as yard waste, topsoil, street sweeping debris, asphalt millings and compost appears to be a potential source of nonpoint source pollution at the yard. Where applicable and practicable, the City should apply of the recommendations of the WDNR "Storage Pile Best Management Practices" to upgrade the current storage of these materials. This may include covering these materials on a regular basis, or grading the area around the piles with berms and/or depressions to trap runoff. The stockpiles could potentially be relocated so there are longer stormwater flow distances from the stored materials to defined drainageways.

In 2011, the City further reviewed the management of these stockpiles. Because they are frequently accessed for material placement and removal, covering these stockpiles regularly would be impractical. Therefore, a higher priority will be placed on constructing a treatment swale or bioretention area north of this area. In the long term, the city will also evaluate the installation of more enclosures for these stockpiles.



Bulk Storage, West End of Yard, Looking South



Bulk Storage, Looking West

3.2 Stormwater Treatment Best Management Practices

Structural control measures may be necessary to control pollutants that are still present in the stormwater after the non-structural controls have been implemented. These types of controls are physical features that control and prevent stormwater pollution. They can range from preventive measures to collection structures to treatment systems. Structural controls require construction of a physical feature or barrier.

3.2.1 Preventive Measures

Preventive measures are controls that are intended to prevent the exposure of stormwater to possible contaminants. The City currently uses the preventive measure of doing most maintenance and materials handling indoors, in areas that will not drain to the stormwater system. Other preventive measures include the enclosure of the salt storage area, and the use of covered dumpsters. Many of the source control measures described earlier can also be considered preventive Best Management Practices.

Another measure the City will undertake in this category is to conduct an annual review of this Public Works Yard Evaluation. This review, and any updates/changes to the evaluation, will be documented in the Annual Report submitted to WDNR for the NR 216 permit. The permit also requires two inspections of the site a year now; one full inspection and one simpler visual inspection.

3.2.2 Diversions

Diversion practices are structures (including grading and paving) that are used to divert stormwater away from high risk areas and prevent pollutants from mixing with runoff. The site currently has a diversion swale along the north edge of the yard area, to prevent runoff from the large hillslope to the north from entering the working yard area. This reduces the amount of runoff which can potentially contact the storage piles of compost, topsoil and yard waste. Opportunities for additional diversion practices appear limited, because of physical site constraints.

3.2.3 Containment

Containment areas are structures designed to hold pollutants or contaminated stormwater to prevent it from being discharged to surface waters. Containment structures have been installed around the fuel tanks. The unintentional ponding and infiltration that occurs through the site, because of the rough grading and surface pockets and depressions, also provides some containment of runoff. The City should consider doing additional grading around the storage piles that drain directly off-site, to contain runoff from these areas.

3.2.4 Other Controls

No designed detention areas or other structural BMPs currently exist in the public works yard.

The City should consider creating some sort of treatment BMP at the downstream end of the swale draining the north side of the materials storage area. This could consist of a biofilter, treatment swale, or rain garden. There appears to be space in this area to construct a small-scale BMP. This would provide an opportunity for the City to conduct a demonstration project or pilot project and showcase the use of innovative stormwater BMPs to citizens, developers, other municipalities and the WDNR.



Possible Location for Treatment Swale or Rain Garden

If yard areas are reconstructed or repaved in the future, there may be opportunities to install structural treatment devices such as catch basins, oil/water separators or Stormceptors. However, the City has no plans in the near to medium term future to reconstruct or repave the yard.

3.3 Summary of Recommended Source Control and Best Management Practices

Some components of stormwater management in the public works yard have already been implemented and are working effectively. It is recommended the City consider implementing the following additional measures, where feasible:

1. Reduce soil erosion from the slope above the railroad ditch. Numerous bare spots, gullies and rivulets exist along this slope. The City should work with Canadian Pacific Railroad and use revegetation, slope protection and flow control to reduce erosion in these areas.
2. Where applicable and practicable, the City should apply of the recommendations of the WDNR "Storage Pile Best Management Practices" to the management of piles of topsoil, compost, yard waste and other bulk materials in the yard. This may include covering some materials, or using berms and depressions to contain runoff from these areas.
3. The City should coordinate cleanup of trash and debris in the railroad ditch with Canadian Pacific Railroad.
4. Consider modifying the swale along the north side of the bulk storage area to provide runoff treatment using a biofilter, treatment swale, or rain garden. This would provide an opportunity for the City to conduct a demonstration project or pilot project and showcase the use of innovative stormwater BMPs to citizens, developers, other municipalities and the WDNR.
5. If yard areas are reconstructed or repaved in the future, the City should investigate installing structural treatment devices such as catch basins, oil/water separators or Stormceptors.
6. The City's internal stormwater education program should include education of appropriate City employees on how to minimize stormwater pollution from yard operations.
7. This public works yard evaluation shall be reviewed on an annual basis. Any modifications or updates shall be noted in the City's Annual Report for the NR 216 permit. The yard should be inspected at least twice a year according to permit requirements; one full inspection and one simpler visual inspection.

ADDENDUM – IMPLEMENTATION SCHEDULE

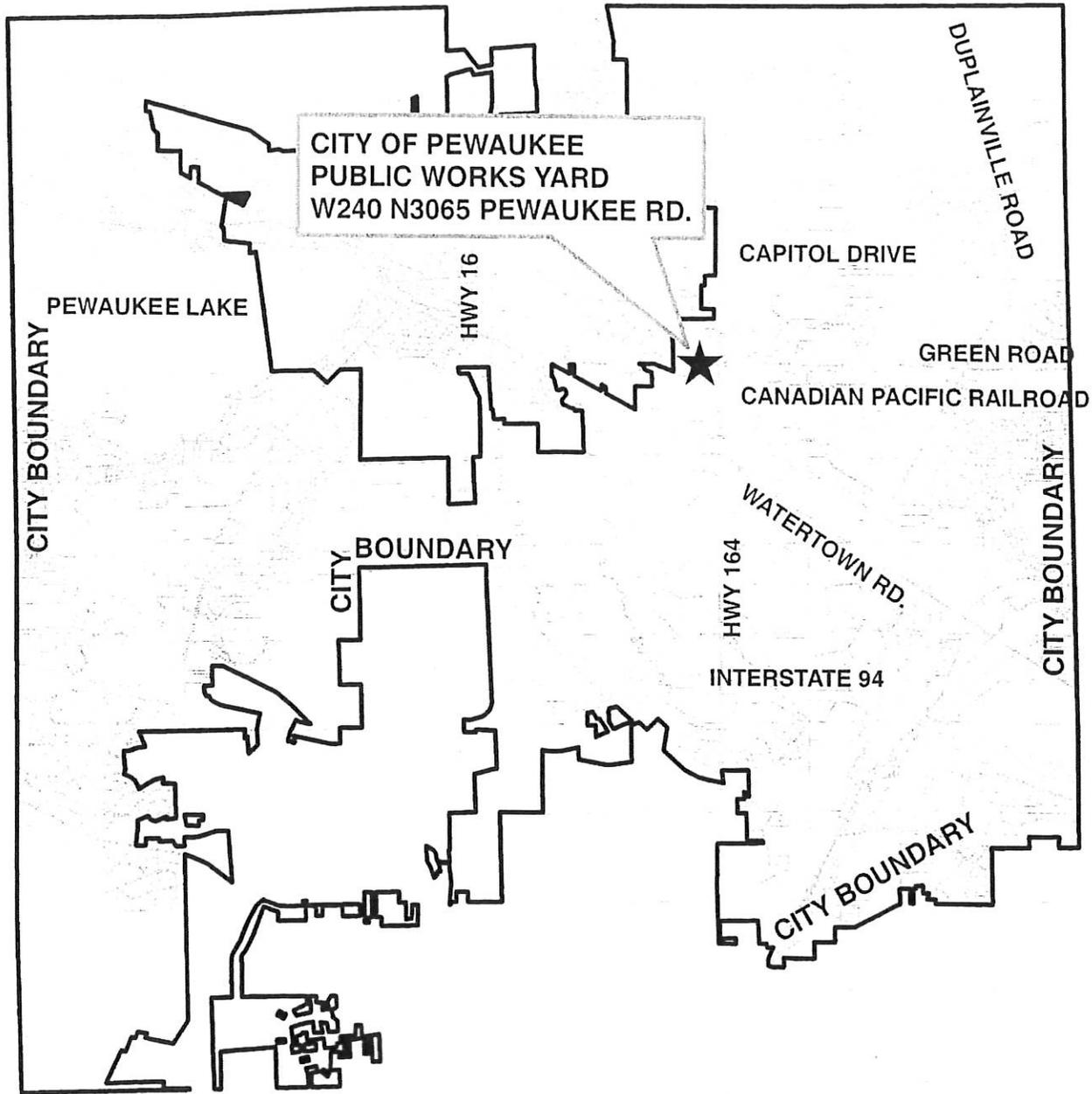
The implementation schedule of this plan is listed here separately so it is more easily updatable if conditions change.

The City anticipates implementation of a treatment swale or bioretention area at the west end of the yard in 2012.

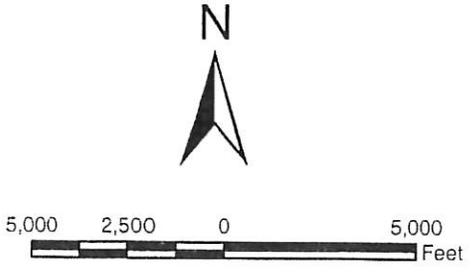
Since it is unlikely that the yard pavement will be repaving or reconstructed in the foreseeable future, the City will begin to consider the possibility of a separate project to install some sort of stormwater treatment, probably underground, for the east yard area which currently drains to the surface flumes and then down the railroad slope.

It is uncertain when the restoration of any of the railroad property could occur, because this requires approval and possible participation with Canadian Pacific.

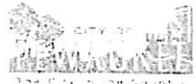
The other recommendations are implemented on an ongoing basis.



CITY OF PEWAUKEE
 PUBLIC WORKS YARD
 W240 N3065 PEWAUKEE RD.



MAP 1
LOCATION OF PUBLIC WORKS YARD
 Evaluation of Public Works Yard
 City of Pewaukee

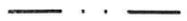


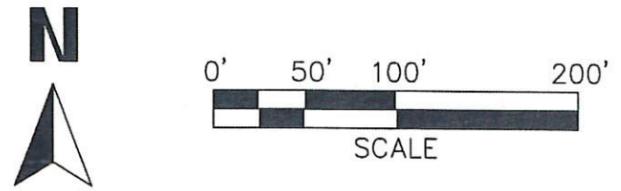
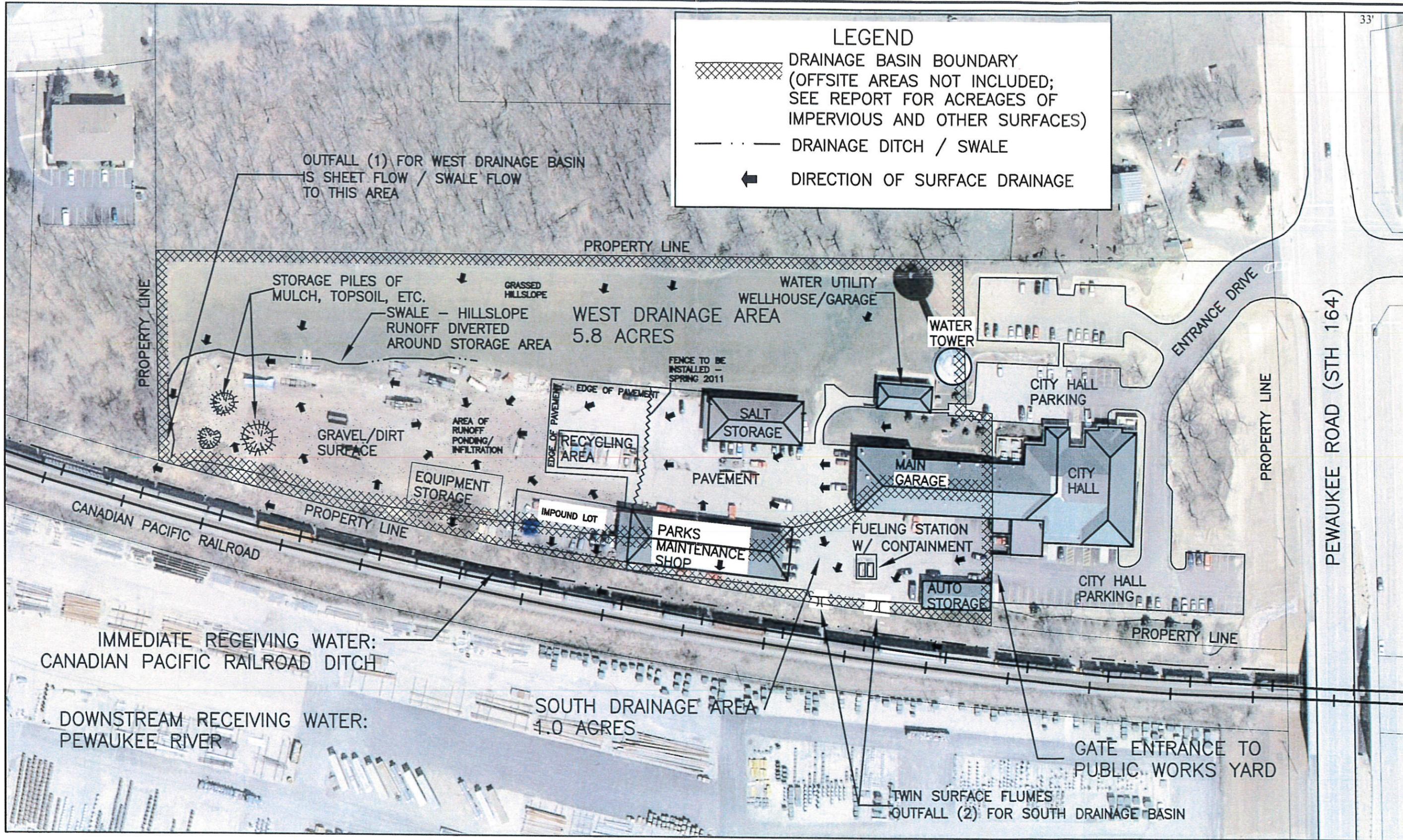

84626 March 2006

L:\work\84626\ArcGis\mxd\publicworksyard_march06\map1_yard.mxd

File: C:\projects\pewaukee\swppp\cad\cityhallarea_2011update.dwg Time: Mar 31, 2011 - 6:39am

LEGEND

-  DRAINAGE BASIN BOUNDARY (OFFSITE AREAS NOT INCLUDED; SEE REPORT FOR ACREAGES OF IMPERVIOUS AND OTHER SURFACES)
-  DRAINAGE DITCH / SWALE
-  DIRECTION OF SURFACE DRAINAGE



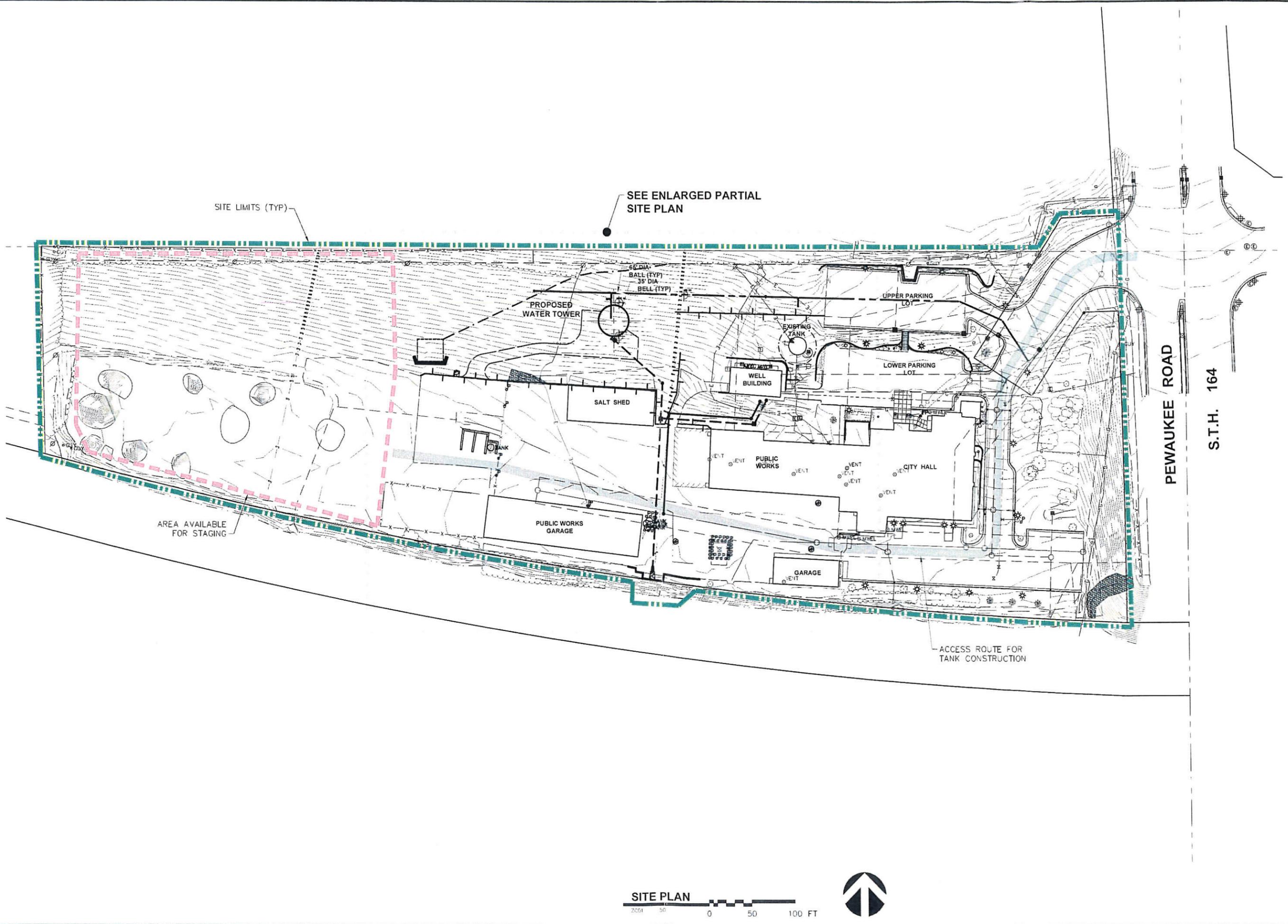
**MAP 2
SITE MAP**

CITY OF PEWAUKEE
EVALUATION OF PUBLIC WORKS YARD
MARCH 29, 2006 (UPDATED MARCH 2011)

84626

Appendix B

Nov 24, 2015, 10:10am, PLOTTED BY: EMILIE, SAVED BY: jhaskak
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 W:\FILES_412214.dwg: dbastrot, jkabasho, utbacher



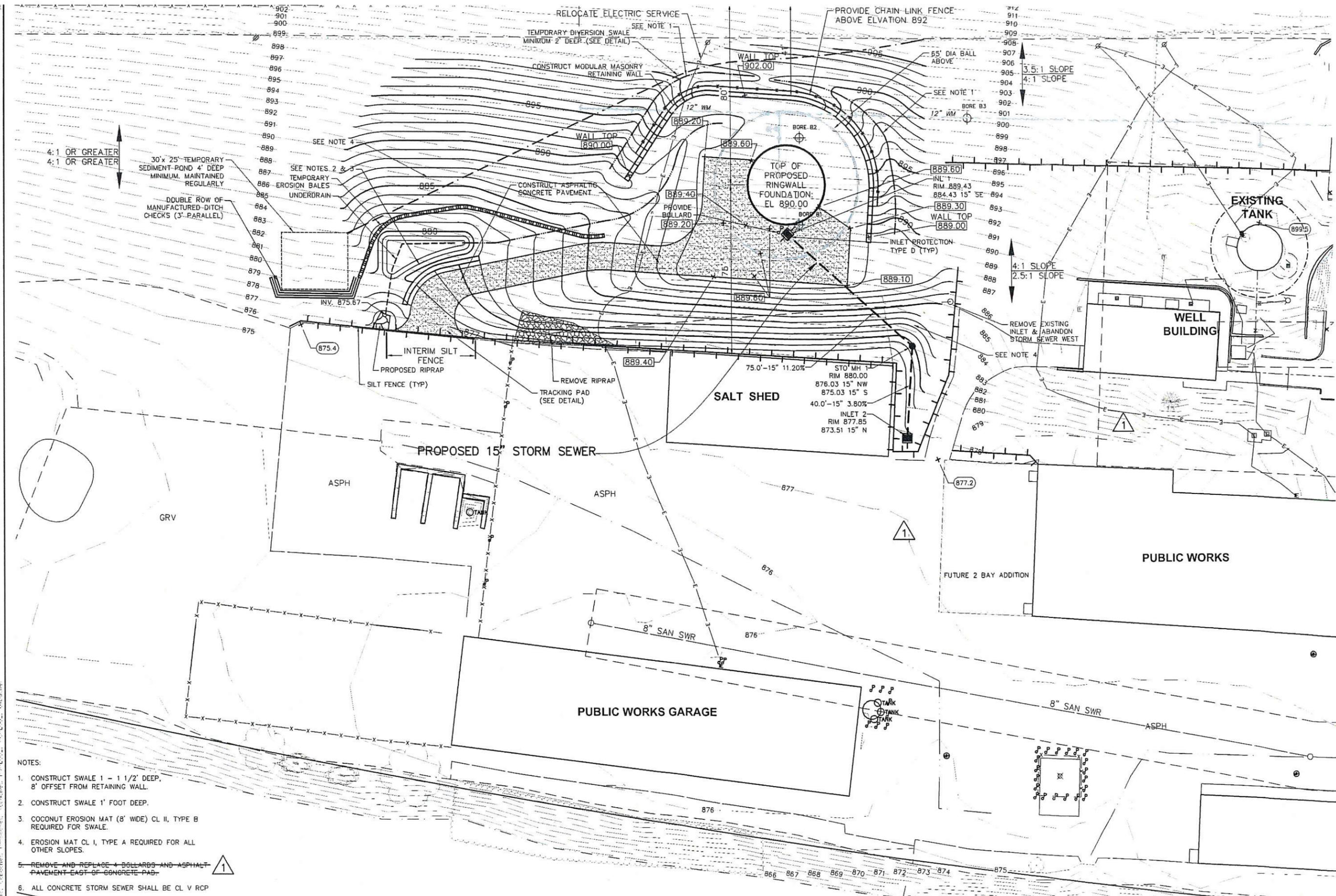
1	2	3	4	5	6	7	8	9	10

Ruekert-Mielke
 W210 N20000 Ridgeway Parkway • Waukesha, WI 53188-1020
 (262) 542-5723 • Fax: (262) 542-5831 • www.ruekert-mielke.com

CITY HALL ELEVATED TANK
 SITE PLAN
 CITY OF PEWAUKEE
 WAUKESHA COUNTY, WISCONSIN

© COPYRIGHT 2015 RUEKERT & MIELKE INC
DESIGNED BY: DRB
DRAFTED BY: JMC
CHECKED BY:
DATE: NOVEMBER, 2015
FILE NO. 26-10044
BID SET
SHEET NO. C01

TOWN: _____
 RANGE: _____
 SECTION(S): _____



- NOTES:
1. CONSTRUCT SWALE 1 - 1 1/2' DEEP, 8' OFFSET FROM RETAINING WALL.
 2. CONSTRUCT SWALE 1' FOOT DEEP.
 3. COCONUT EROSION MAT (8' WIDE) CL II, TYPE B REQUIRED FOR SWALE.
 4. EROSION MAT CL I, TYPE A REQUIRED FOR ALL OTHER SLOPES.
 5. REMOVE AND REPLACE 4 BOLLARDS AND ASPHALT PAVEMENT EAST OF CONCRETE PAD.
 6. ALL CONCRETE STORM SEWER SHALL BE CL V RCP

PARTIAL SITE PLAN

0 10 20 40 FT

NO	DATE	DESCRIPTION
1	12-02-2015	DELETE SANITARY AND STORM SEWERS. DELETE NOTE.
2	1-25-2016	REVISIONS TO PROPOSED GRADING
3		
4		
5		
6		

Ruekert·Mielke

W233 NORTH Ridgewood Parkway • Waukegan, VA 25118-1070

CITY HALL ELEVATED TANK
 PARTIAL SITE PLAN INCLUDING SEWERS
 CITY OF PEWAUKEE

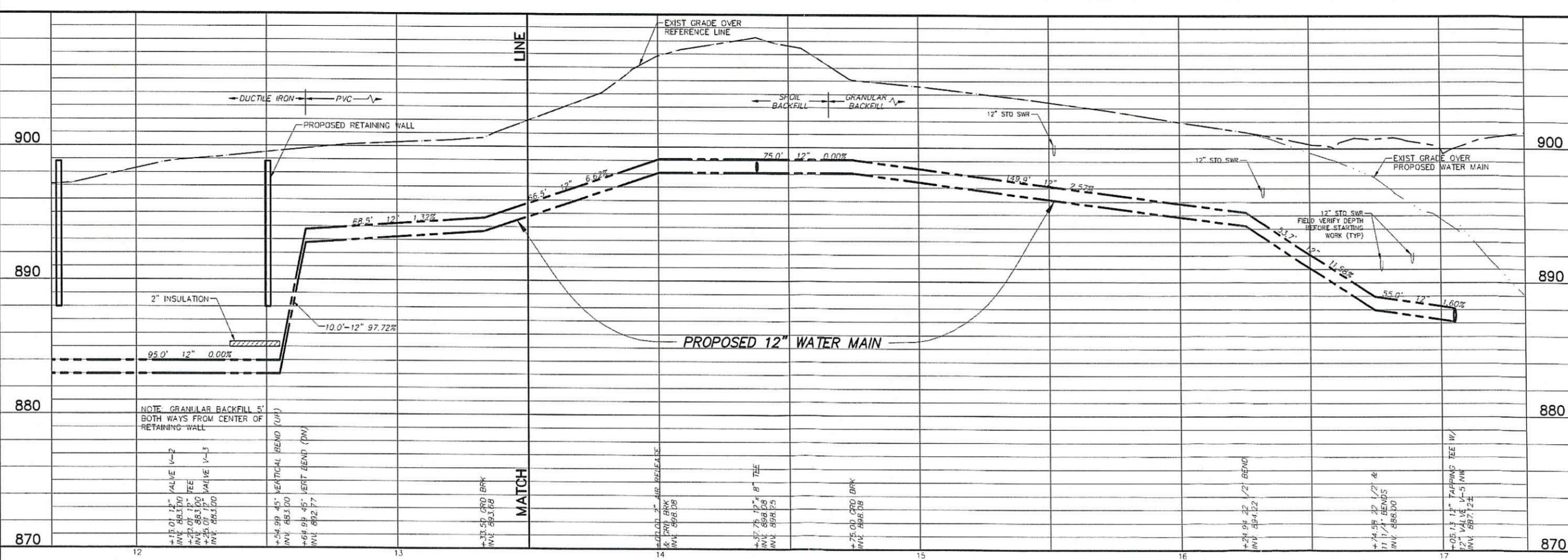
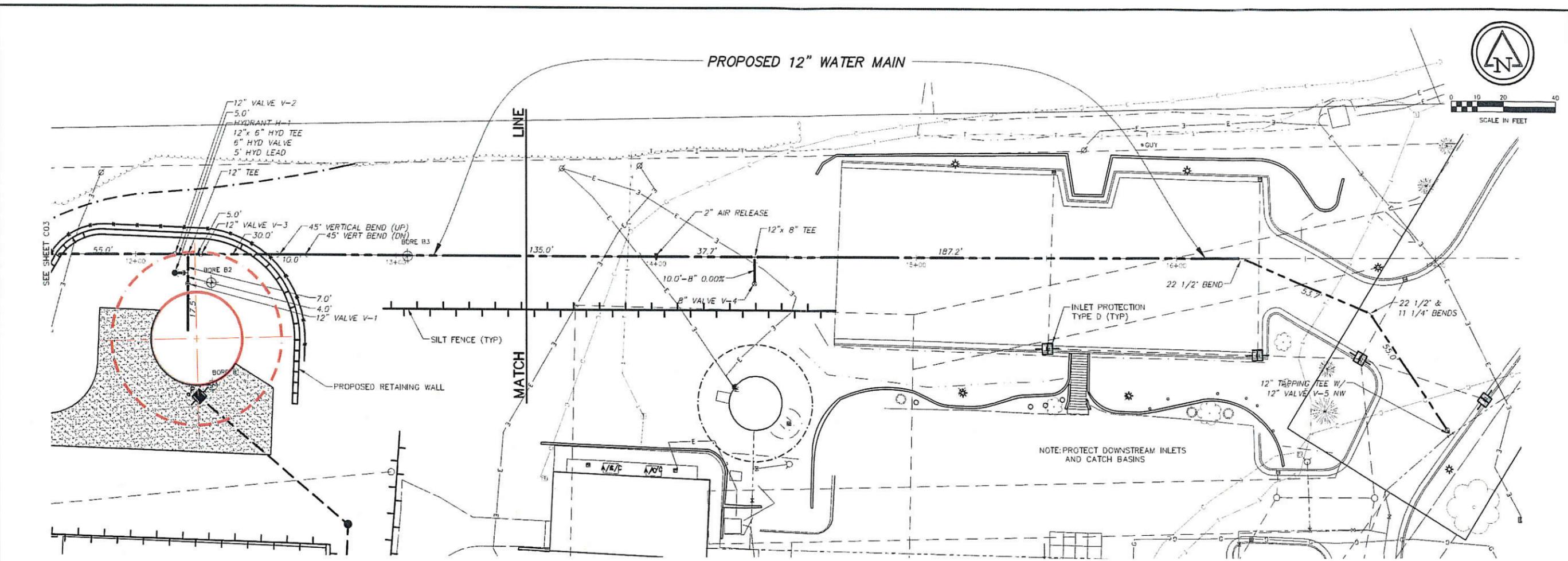
© COPYRIGHT 2015 RUEKERT & MIELKE I

DESIGNED BY: DRB
 DRAFTED BY: JMC
 CHECKED BY:
 DATE: NOVEMBER, 2015
 FILE NO.
26-10044

BID SET

SHEET NO.
C02-R

Nov 23, 2015 10:13am PLOTTED BY: GMEILLER, SAVED BY: jmelick
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 W:\CADD\City of Pewaukee\10044\10044.dwg, 10044-epw-Elevated Tank Water Main Plan - 1/2 scale



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7	6	5	4	3	2	1
SECTION(S)						
RANGE						
TOWN						

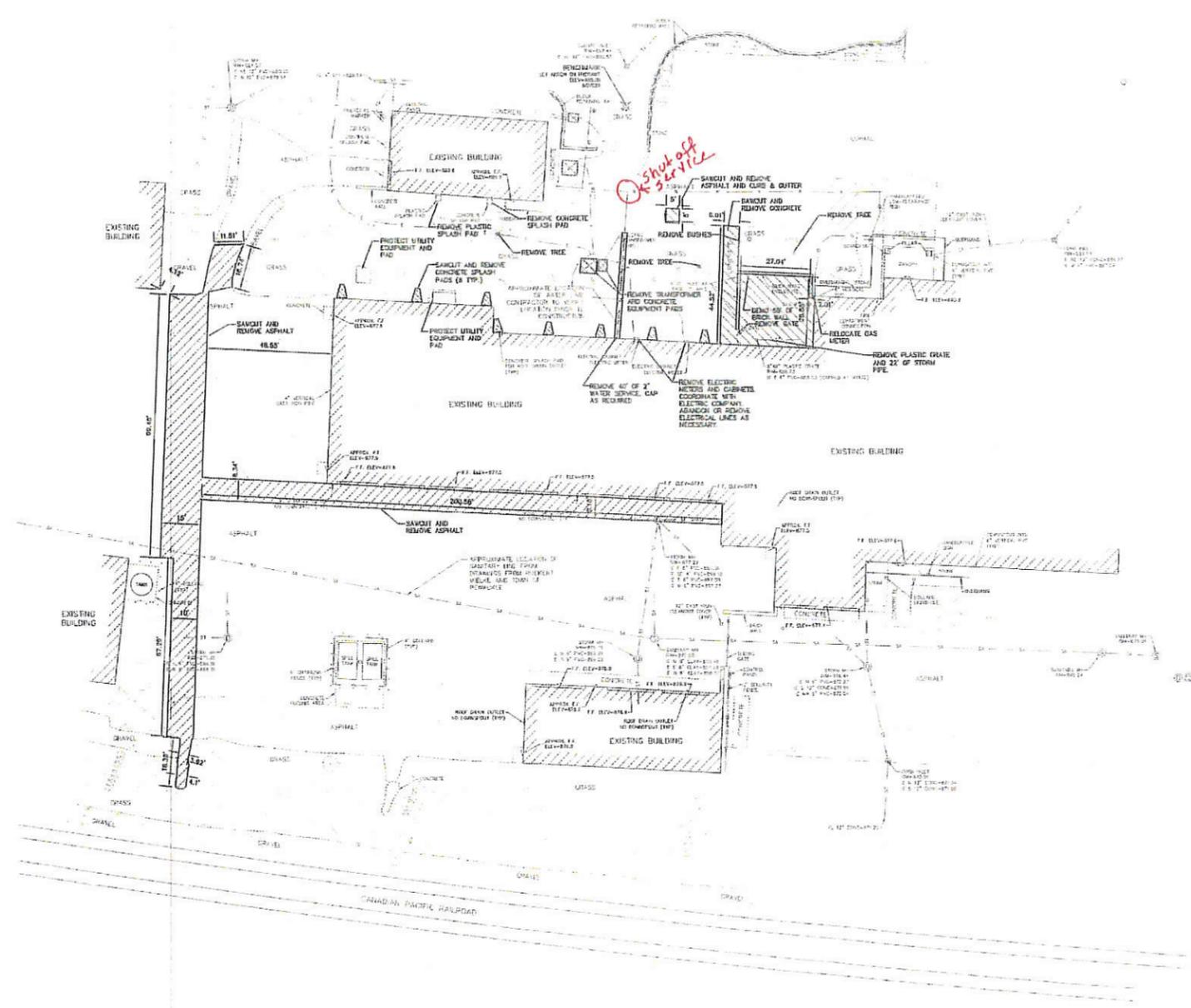
CITY HALL ELEVATED TANK WATER MAIN
PROPOSED WATER MAIN
 IN: CITY OF PEWAUKEE CITY HALL
 FROM: 100' EAST OF PROPOSED WATER TOWER
 TO: DRIVEWAY
 CITY OF PEWAUKEE
 WAUKESHA COUNTY, WISCONSIN

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 DESIGNED BY: GEP
 DRAFTED BY: PJR
 CHECKED BY:
 DATE: NOVEMBER, 2015

FILE NO.
26-10044.200

SHEET NO.
C04

Appendix C



OWNER:
CITY OF PEWAUKEE
1240 N3085 PEWAUKEE ROAD
PEWAUKEE, VI 53072

PROJECT:
ROOF IMPROVEMENTS FOR
PEWAUKEE CITY HALL
1240 N3085 PEWAUKEE ROAD
PEWAUKEE, VI 53072

NOTE:
EXISTING UTILITIES SHOWN ARE INDICATED
BY REFERENCE WITH VERTICAL RECORDS AND
FIELD MEASUREMENTS. THE CONTRACTOR SHALL
BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS
AND DEPTHS OF ALL UTILITIES INCLUDING
SEWER AND WATER FROM THE OFFICE OF THE
RESPECTIVE JURISDICTION. UTILITY OWNERS
SHALL BE NOTIFIED BY THE CONTRACTOR 25 WORK
DAYS IN ADVANCE.

PRELIMINARY SHEET DATES:
MARCH 1, 2016



EXISTING SITE AND DEMOLITION PLAN



FOR NUMBER:
1303190
SHEET

C1.1

Appendix D

The *Hi-Arch Gambrel*™

The smart
year-round
solution for
salt storage—
and so much more

AST 
ADVANCED STORAGE TECHNOLOGY, INC.



Undercover Operation

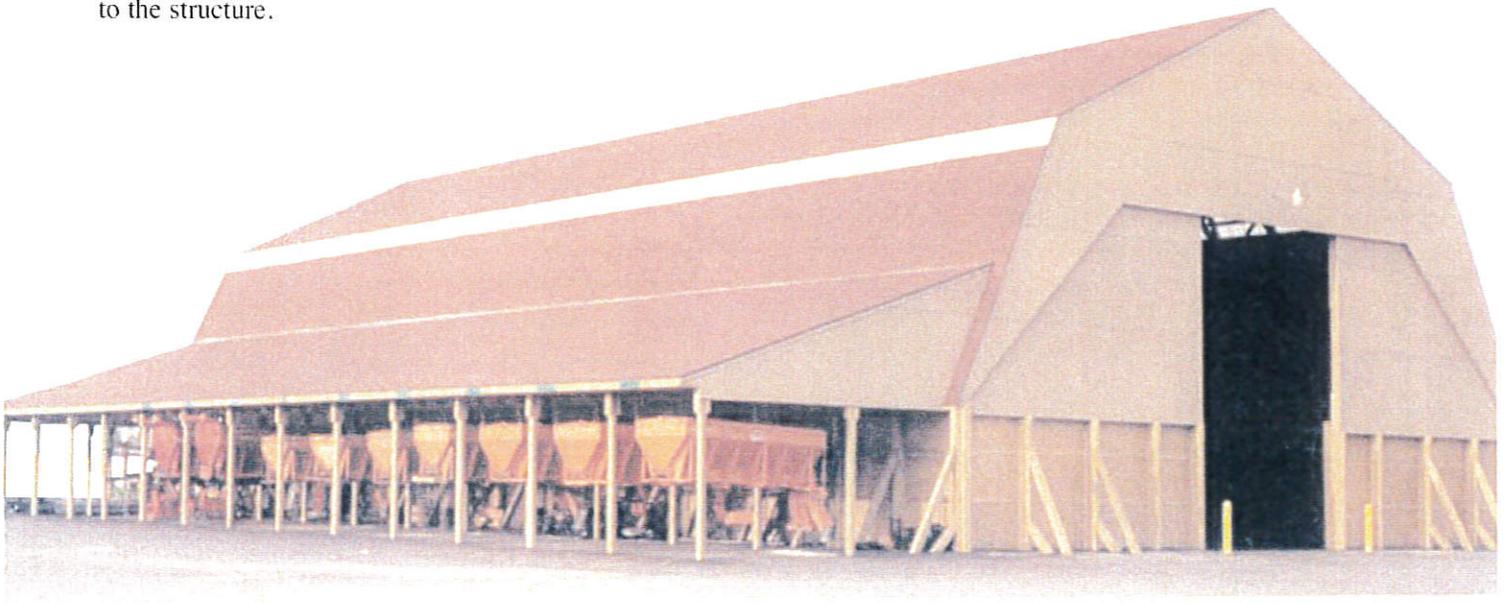
Since 1980, the Hi-Arch Gambrel™ has proven to be the smart solution for hundreds of municipalities, counties, and states across the U.S.

The Hi-Arch Gambrel features an interior clearance of 30' or more, extending the full length of the building. **As a result, tractor-trailers can dump salt directly under cover, and mixing and loading operations can be done inside too.** This not only protects the environment, but enables crews to work more safely and efficiently, saving both time and money.

Generous headroom maximizes the building's capacity. Ample lighting and ventilation also make it an ideal summer work area. A lean-to can be attached to add even more function and versatility to the structure.

Our building design has been analyzed and approved by numerous engineering departments, including many state Departments of Transportation. In fact, many of our clients are so satisfied with the Hi-Arch Gambrel's structural and fiscal performance that they have become repeat customers.

The Hi-Arch Gambrel gives you more for your money, because it's more than salt storage — it's a year-round, multi-purpose public works facility!





Each community and its storage needs are unique. The Hi-Arch Gambrel's versatile design can be tailored to store one or more piles of salt, mix or other materials, and to fit your site and budget requirements. A wide range of sizes can accommodate quantities from a few hundred tons to many thousands of tons.

After discussing your storage needs for salt and other materials, we can recommend sizes and layouts to meet your specific operational requirements.

Protects the Environment

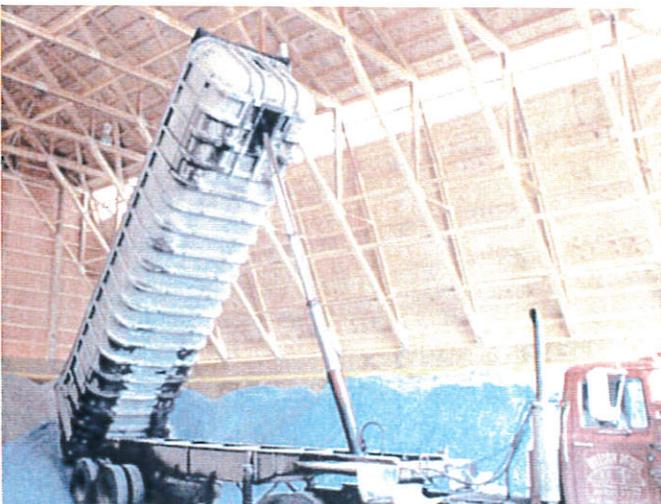
Undercover operation improves efficiency and keeps you in compliance with environmental regulations. Inside dumping and operations:

- Eliminate outdoor salt piles
- Prevent weather exposure
- Prevent runoff and decrease pollution liability

Maximizes Your Capacity

The Hi-Arch Gambrel's 30-foot-plus vertical clearance and rectangular shape allow you to fill the structure to capacity without the need for costly conveyors. Twelve foot (12') high crib walls provide ample headroom, and front-end loaders can build the pile height toward the center of the building at the natural angle of repose of the material.

With the Hi-Arch Gambrel, you can store more material per square foot than other structures, so it takes up less space on your site—and that means lower site work and paving costs.



Many Features

High Strength—Low Maintenance

The Hi-Arch Gambrel stands up to real-life working conditions. The crib wall panels are internally reinforced to withstand operational impact from equipment, as well as to support the weight of stored material. Salt will not harm the wall structurally, and the exterior can be painted or left natural. And while the wood wall is more economical, a concrete wall can be substituted if that would best meet the needs of your particular facility.

Our permanent, durable roof system consists of asphalt shingles or metal panels supported by a plywood deck over sturdy wood trusses.

The Lean-To—a popular and versatile option

A lean-to can be located on any side or end wall. When unenclosed, it serves as a basic and inexpensive way to shelter valuable equipment and supplies. When fully or partially enclosed, it can be customized for weathertight secure storage, a maintenance area or workshop— even office space. The lean-to can be built at the same time as the main structure or added at a future date.



Aesthetics

Materials and finishes can be chosen to harmonize with surroundings and other buildings nearby. You can have a shingle or metal roof, decorative elements such as cupolas, dormer windows and shutters, standard or custom siding, and colors of your choice.



Options

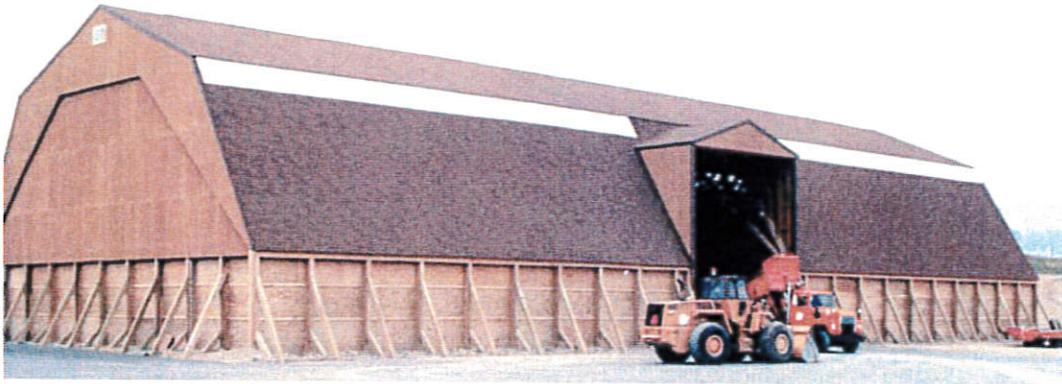
Vents and Skylights

The Hi-Arch Gambrel has full-length ridge and eave vents that provide ample passive ventilation; mechanical fans are not needed. Translucent skylight panels extend the length of the roof on both sides to provide plentiful natural lighting during daylight hours.



Overhead Doors

For added security or protection from the weather, an electrically operated overhead door can be installed in the main entranceway, with a manual exit door nearby.



Side Entrance

A side entrance offers an ideal design for storing multiple products. The side entrance can be off-centered in order to accommodate piles of various size while still providing a covered area for mixing and loading. Multiple entrances can also be provided.



Concrete Wall

If you prefer, a concrete wall can be substituted for the reinforced wood panel system.



Save Money

The Hi-Arch Gambrel:

- Prevents wasteful and costly runoff of salt
- Prevents double handling by your crews
- Prevents lumps and crusts which lead to clogged spreaders, downtime, and delays in serving your taxpayers
- Increases operational efficiency and reduces overtime and payroll costs
- Eliminates the need for conveyors which are expensive to purchase, operate, and maintain
- Prevents possible legal and environmental costs that result from salt runoff

The Hi-Arch Gambrel can help you save money on salt purchases, since many vendors give discounts for larger orders and early-season deliveries. This results in an even faster payback on your new building!



Improve Your Working Environment

- Delivery, mixing, and loading inside means your crews operate in dry, safe conditions regardless of the weather
- Salt and other materials stay dry and easy to work with
- Mixing can be done in advance, so your crews don't have to spend time mixing outdoors during a storm
- Inside operation reduces noise from loaders and other vehicles
- Both natural and artificial light sources facilitate operations and conserve energy
- Ridge and eave vents provide excellent passive ventilation and eliminate the need for fans

Small Building Design

For storage needs of less than 500 tons, we have developed a design for smaller structures. Please let us know if you would like further details on this option.

Economical
Efficient

Knowledgeable

We'll work with you

Our knowledgeable team can assist you throughout the planning process. We'll help analyze your needs and recommend the appropriate size and features for your operations— and your budget. We can work with your department and any other officials or consultants involved in your project.

To help you make the most informed decision, we can provide information including:

- Sizes, capacities, features, and budget prices
- How the Hi-Arch Gambrel compares to other types of storage structures
- Wall and foundation options
- Issues relating to salt storage sites
- Services we can provide
- Customer references

Let's get started!

Just tell us how you work, and we'll design a building that will work for you for years to come.



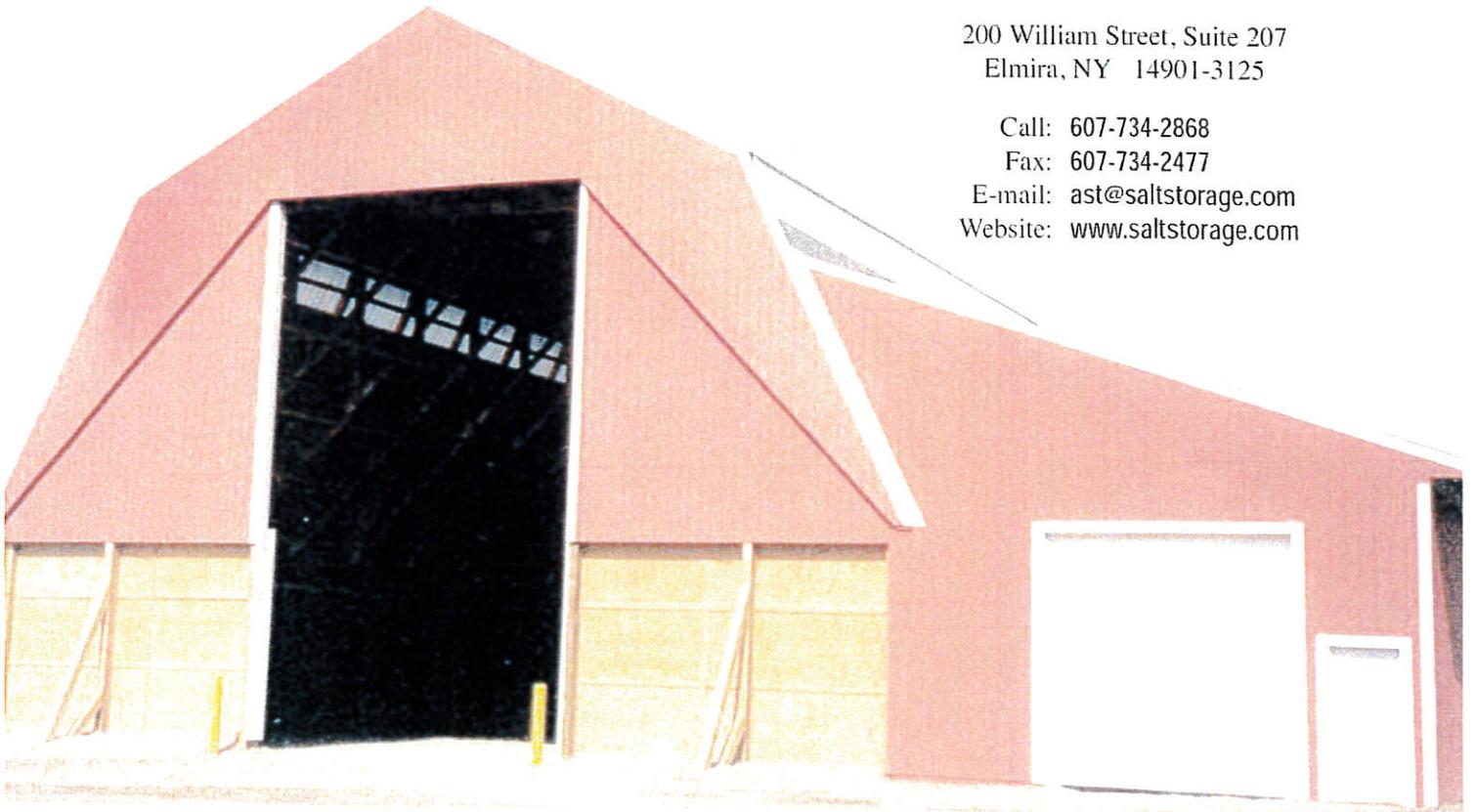
200 William Street, Suite 207
Elmira, NY 14901-3125

Call: 607-734-2868

Fax: 607-734-2477

E-mail: ast@saltstorage.com

Website: www.saltstorage.com





ADVANCED STORAGE TECHNOLOGY, INC.

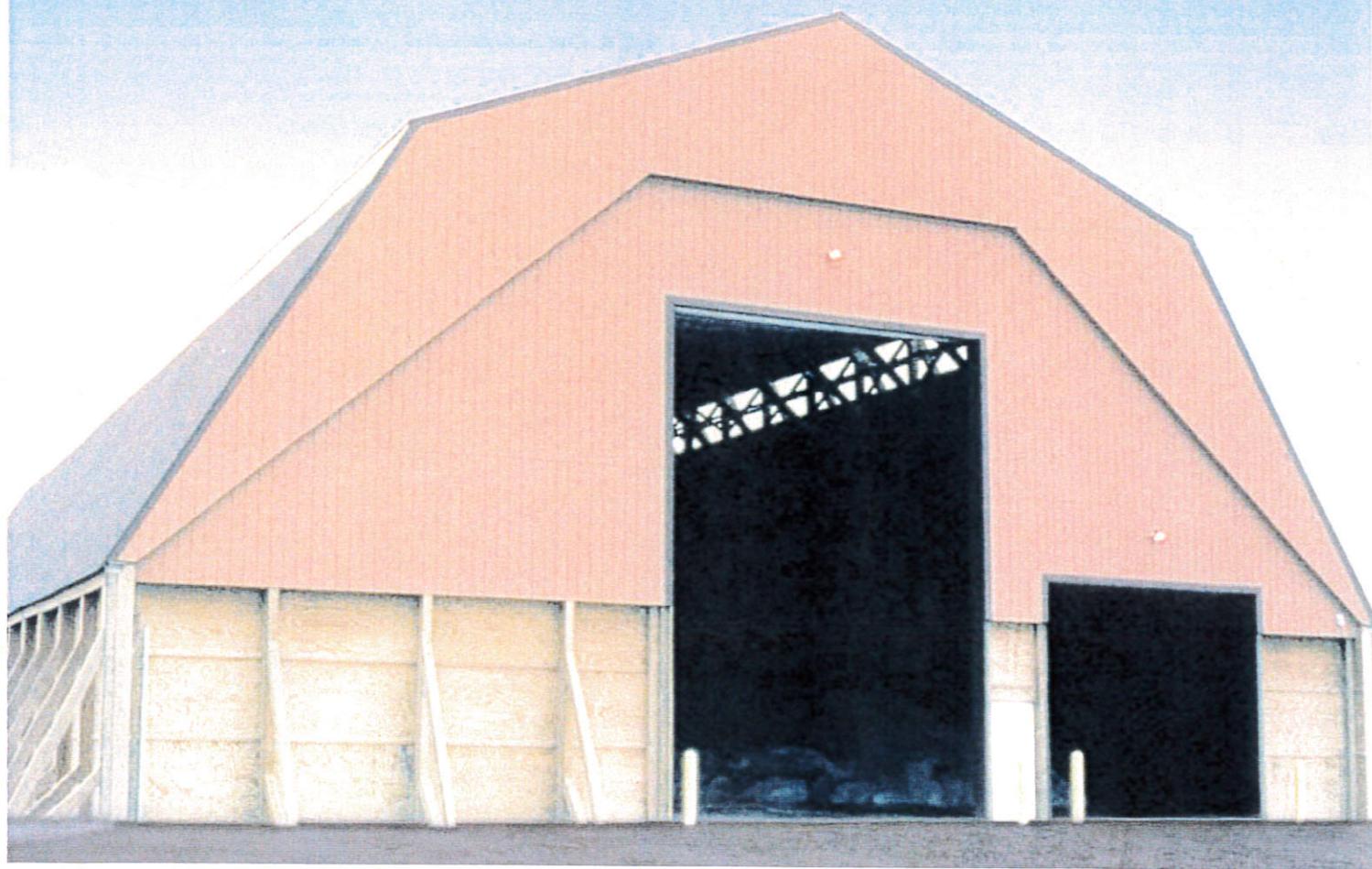
**200 William Street, Suite 207
Elmira, NY 14901-3125**

Call: 607-734-2868

Fax: 607-734-2477

E-mail: ast@saltstorage.com

Website: www.saltstorage.com



Appendix E



Brine tank on corner of parks maintenance shop.



Salt storage facility.



View southeast of fueling station & auto storage building.



View east of Main garage.



View north east of pomphouse & watertower.



Inside of salt storage facility.



View west of the yard.



View south west of the yard.



View west along the south end of yard (behind parks maintenance shop).



View east along south edge of yard.

Exhibit G

Fiscal Analysis

For 1/1/2016 To 12/31/2016

	Current Period	Current YTD	2016 Budget	Balance Remaining	Percent Remaining
Impact Fee Fund					
Revenues					
Impact Fees	(\$10,416)	\$0	\$0	\$0	0%
Impact Fees - Parks	15,360	75,776	50,000	(25,776)	(52)
Impact Fees - Fire	7,925	65,817	35,000	(30,817)	(88)
Impact Fees - Bike Paths	3,207	26,953	10,000	(16,953)	(170)
Interest on Investments	27	313	100	(213)	(213)
Total Impact Fee Revenues	\$16,103	\$168,859	\$95,100	(\$73,759)	(78)%
Expenditures					
Transfer to Sports Complex Fund	\$0	\$50,000	\$50,000	\$0	0%
Total Impact Fee Expenditures	\$0	\$50,000	\$50,000	\$0	0%
Storm Water Management					
Revenues					
Permits	\$0	\$300	\$0	(\$300)	0%
Outside Engineer Fees Reimb	0	32,256	35,000	2,744	8
In-House Engineer Services Reimbursed	0	20,014	8,000	(12,014)	(150)
Storm Water Services	0	440	0	(440)	0
Storm Water Management Fee	0	1,537,404	1,485,000	(52,404)	(4)
Storm Water Management - Credits & Rebates	0	(25,961)	(5,000)	20,961	(419)
Storm Water Management-Credit Application Fee	0	0	200	200	100
Interest on Investments	0	130	10,270	10,140	99
Miscellaneous Revenues	87	1,216	0	(1,216)	0
Transfer From General Fund	0	12,348	12,350	2	0
Transfer From Cemetery Fund	0	420	444	24	5
Total Storm Water Revenues	\$87	\$1,578,567	\$1,546,264	(\$32,303)	(2)%
Expenditures					
Administration & General					
Wages	\$70,786	\$121,762	\$96,014	(\$25,748)	(27)%
Highway Dept Wages	0	4,659	0	(4,659)	0
Social Security	5,430	9,665	7,345	(2,320)	(32)
Health Insurance	11,837	14,361	17,388	3,027	17
Dental Insurance	772	940	1,159	219	19
Optical Insurance	175	217	265	48	18
Life Insurance	143	211	225	14	6
Disability Insurance	158	278	378	100	26
Pension	4,440	6,350	6,337	(13)	0
Attorney	0	5,669	20,000	14,331	72
Audit and Accounting Services	3,850	3,850	5,000	1,150	23
Outside Engineering	9,751	37,840	10,000	(27,840)	(278)
Equipment Repair & Maint	91	6,840	7,000	160	2
Equipment Rental	0	275	5,000	4,725	95

CURRENT YEAR BUDGET REPORT

For 1/1/2016 To 12/31/2016

	Current Period	Current YTD	2016 Budget	Balance Remaining	Percent Remaining
Computer/Program Maintenance	0	3,275	3,000	(275)	(9)
Training & Seminars	112	1,226	3,500	2,274	65
Postage	0	2,306	3,000	694	23
Dues, Memberships & Subscriptions	0	713	800	87	11
Meetings & Conventions	75	75	500	425	85
Mileage	188	432	800	368	46
Operating Supplies	350	3,735	4,000	265	7
Uniforms & Protective Equipment	0	379	1,500	1,121	75
Fuel	0	4,329	7,000	2,671	38
Worker's Compensation	2,100	9,013	7,801	(1,212)	(16)
Property & Liability	0	3,337	3,337	0	0
Equipment Rental	0	551	0	(551)	0
Total Administration & General Expenditures	\$110,258	\$242,288	\$211,349	(\$30,939)	(15)%
Storm Sewer Maintenance					
Storm Sewer Maint - Wages	\$39	\$4,972	\$2,232	(\$2,740)	(123)%
Storm Sewer Maint - Social Security	3	379	171	(208)	(122)
Storm Sewer Maint - Health Insurance	2	874	404	(470)	(116)
Storm Sewer Maint - Dental Insurance	1	37	27	(10)	(37)
Storm Sewer Maint - Optical Insurance	0	12	6	(6)	(100)
Storm Sewer Maint - Life Insurance	0	10	5	(5)	(100)
Storm Sewer Maint - Disability Insurance	0	18	9	(9)	(100)
Storm Sewer Maint - Pension	3	309	147	(162)	(110)
Storm Sewer Maint - Easement Acquisition	0	0	1,000	1,000	100
Storm Sewer Maint - Digger's Hotline	929	14,337	10,000	(4,337)	(43)
Storm Sewer Maint - Televising	0	0	1,500	1,500	100
Storm Sewer Maint - Maintenance	0	175	1,500	1,325	88
Storm Sewer Maint - As Builts & Mapping	0	0	5,000	5,000	100
Storm Sewer Maint - Curb & Gutter Repair	799	1,794	10,000	8,206	82
Total Storm Sewer Maint	\$1,776	\$22,917	\$32,001	\$9,084	28%
Ditch & Culvert Maint					
Ditch & Culvert Maint - Wages	\$532	\$61,942	\$49,124	(\$12,818)	(26)%
Ditch & Culvert Maint - Social Security	41	4,741	3,758	(983)	(26)
Ditch & Culvert Maint - Health Insurance	49	14,115	8,896	(5,219)	(59)
Ditch & Culvert Maint - Dental Insurance	3	724	593	(131)	(22)
Ditch & Culvert Maint - Optical Insurance	1	112	135	23	17
Ditch & Culvert Maint - Life Insurance	1	153	115	(38)	(33)
Ditch & Culvert Maint - Disability Insurance	2	248	194	(54)	(28)
Ditch & Culvert Maint - Pension	35	4,131	3,242	(889)	(27)
Ditch & Culvert Maint - Culvert Replacement	56	13,575	30,000	16,425	55
Ditch & Culvert Maint - Ditch Maintenance	202	9,265	10,000	735	7
Ditch & Culvert Maint - Brush Removal	0	0	2,000	2,000	100
Total Ditch & Culvert Maint	\$922	\$109,006	\$108,057	(\$949)	(1)%
Public Works Yard Maint					

CURRENT YEAR BUDGET REPORT

For 1/1/2016 To 12/31/2016

	Current Period	Current YTD	2016 Budget	Balance Remaining	Percent Remaining
Yard Maint - Wages	\$0	\$0	\$4,466	\$4,466	100%
Yard Maint - Social Security	0	0	342	342	100
Yard Maint - Health Insurance	0	0	809	809	100
Yard Maint - Dental Insurance	0	0	54	54	100
Yard Maint - Optical Insurance	0	0	12	12	100
Yard Maint - Life Insurance	0	0	10	10	100
Yard Maint - Disability Insurance	0	0	18	18	100
Yard Maint - Pension	0	0	295	295	100
Yard Maint - Yard Maintenance	0	0	500	500	100
Total Public Works Yard Maint	\$0	\$0	\$6,506	\$6,506	100%
Street Sweeping					
Street Sweeping - Wages	\$0	\$10,070	\$20,096	\$10,026	50%
Street Sweeping - Social Security	0	768	1,537	769	50
Street Sweeping - Health Insurance	0	2,477	3,639	1,162	32
Street Sweeping - Dental Insurance	0	115	243	128	53
Street Sweeping - Optical Insurance	0	25	55	30	55
Street Sweeping - Life Insurance	0	27	47	20	43
Street Sweeping - Disability Insurance	0	41	79	38	48
Street Sweeping - Pension	0	684	1,326	642	48
Street Sweeping - Sweeping	0	120	2,000	1,880	94
Total Street Sweeping	\$0	\$14,327	\$29,022	\$14,695	51%
Catch Basin Cleaning & Maint					
Catch Basin Maint - Wages	\$0	\$30,879	\$29,028	(\$1,851)	(6)%
Catch Basin Maint - Social Security	0	2,363	2,221	(142)	(6)
Catch Basin Maint - Health Insurance	0	6,246	5,257	(989)	(19)
Catch Basin Maint - Dental Insurance	0	299	350	51	15
Catch Basin Maint - Optical Insurance	0	85	80	(5)	(6)
Catch Basin Maint - Life Insurance	0	72	68	(4)	(6)
Catch Basin Maint - Disability Insurance	0	116	114	(2)	(2)
Catch Basin Maint - Pension	0	1,964	1,916	(48)	(3)
Catch Basin Maint - Catch Basin Cleaning & Maint	0	781	0	(781)	0
Total Catch Basin	\$0	\$42,805	\$39,034	(\$3,771)	(10)%
Permit Compliance					
Permit Compliance - Wages	\$2,734	\$6,738	\$22,329	\$15,591	70%
Permit Compliance - Social Security	209	515	1,708	1,193	70
Permit Compliance - Health Insurance	212	594	4,044	3,450	85
Permit Compliance - Dental Insurance	23	44	270	226	84
Permit Compliance - Optical Insurance	5	11	62	51	82
Permit Compliance - Life Insurance	7	17	52	35	67
Permit Compliance - Disability Insurance	12	29	88	59	67
Permit Compliance - Pension	181	445	1,474	1,029	70
Permit Compliance - Maint Agreement TSS Compliance	0	0	25,000	25,000	100
Permit Compliance - Pond Insp/Field Inventory	0	7,727	10,000	2,273	23

CURRENT YEAR BUDGET REPORT

For 1/1/2016 To 12/31/2016

	Current Period	Current YTD	2016 Budget	Balance Remaining	Percent Remaining
Permit Compliance - Erosion Control Inspections	0	0	15,000	15,000	100
Permit Compliance - Information & Education	0	2,605	7,500	4,895	65
Permit Compliance - Permit Fees	0	2,000	1,500	(500)	(33)
Permit Compliance - Annual Report	0	0	500	500	100
Total Permit Compliance Exp	\$3,383	\$20,725	\$89,527	\$68,802	77%
Storm Water Projects					
Projects - Hill 'n Dale	\$5,027	\$24,614	\$500,000	\$475,386	95%
Projects - Emerald Acres/Green Rd	0	146,796	100,000	(46,796)	(47)
Projects - Meadowbrook Farms/Deer Haven	2,940	4,900	20,000	15,100	76
Projects - Green Road Storm Drainage	0	359	0	(359)	0
Projects - Swan Road	0	84	0	(84)	0
Projects - Weyer Road	0	0	20,000	20,000	100
Projects - Five Fields II	0	(1,843)	900	2,743	305
Projects - Five Fields III	0	0	88,200	88,200	100
Projects - Shady Lane/Nook	0	0	94,500	94,500	100
Projects - Hillside Grove	0	0	50,000	50,000	100
Projects - TMDL Reduction	0	0	105,000	105,000	100
Projects - Rocky Point Subdivision #1	0	0	10,000	10,000	100
Projects - Rocky Point Subdivision II	0	(711)	0	711	0
Projects - Storm Inlets & Catch Basins	44,853	115,805	150,000	34,195	23
Projects - Bluemound East Ind Park	0	0	20,000	20,000	100
Projects - Storm Water Study	0	0	350,000	350,000	100
Projects - Rocky Point Sub #3	0	0	20,000	20,000	100
Projects - Lindsay Road #2	0	0	28,000	28,000	100
Projects - Pewaukee Woods	0	0	149,400	149,400	100
Projects - Lakeview Area #1	0	0	20,000	20,000	100
Projects - Duplainville Bridge	0	0	50,000	50,000	100
Projects - Busse Road Bridge	0	8,910	50,000	41,090	82
Projects - Five Fields IV	0	0	8,500	8,500	100
Projects - Roundys Park II	0	0	20,000	20,000	100
Projects - Deer Haven I	0	0	1,900	1,900	100
Total Storm Water Projects	52,820	298,914	1,856,400	1,557,486	84
Capital Expenditures					
Storm Water Other Expenditures					
Transfer to Debt Service Fund	\$0	\$244,703	\$259,412	\$14,709	6%
total Storm Water Other Exp	\$0	\$244,703	\$259,412	\$14,709	6%
Total Storm Water Expenditures					
Total Storm Water Exp	\$169,159	\$995,685	\$2,631,308	\$1,635,623	62%

Tourism & Convention

**CITY OF PEWAUKEE
2017 BUDGET
SPECIAL REVENUE - STORM WATER MANAGEMENT**

	2015 Actual	2016			2017 Budget	COMMENTS
		6 Month Actual	Year End Forecast	Budget		
Revenues and Other Sources						
230- 411100 0000 General Tax Levy	-					
230- 435350 0000 Community Development Block Grant	-					
230- 443070 0000 Permits	300	300	300	600		
230- 443800 0000 Erosion Control Inspections	-					Should move to Outside Eng.
230- 461870 0000 Outside Engineering Fees Reimbursed	101,523	12,565	30,000	35,000		
230- 461890 0000 Inhouse Engineering Fees Reimbursed	28,618	7,700	9,000	8,000		
230- 463110 0000 Storm Water Services	-					
230- 463240 0000 Storm Water Management Fee	1,471,404	1,553,547	1,537,404	1,485,000	1,603,548	per Eng Database
230- 463250 0000 Credits and Rebates	(207)	(42,304)	(26,161)	(5,000)	(45,000)	
230- 463280 0000 Credit Application Fee	-	-	200	200	200	
230- 481000 0000 Interest on Investments	10,430	130	15,000	10,270	10,000	
230- 489000 0000 Miscellaneous	67,964	415	1,000	-	1,000	Admin fee on A/R invoicing
230- 491100 0000 Proceeds of Long-term Debt	-					
230- 491200 0000 Bond Premium	-					
230- 492100 0000 Transfer from General Fund	12,348	12,348	12,348	12,350	17,412	Charge for all Public Bldgs.
230- 492800 0000 Transfer from Cemetery Fund	444	420	420	444	420	Charge for Public Bldgs.
Total Revenue and Other Sources	1,692,824	1,545,121	1,579,511	1,546,264	1,631,180	
ADMINISTRATION						
WAGES						
230- 536500 1100 Wages	58,375	37,944	76,000	96,014	82,079	Includes New Hires in Eng. And Hwy.
230- 536500 1200 Clerical Wages	-				16,333	Renese/Chris 15% plus benefits
230- 536500 1240 Highway Dept Wages	5,259	1,401	5,000	-	5,268	
230- 536500 1280 Overtime	-				-	43% of wage in 2014/35% in 2015
230- 536500 1300 Social Security	4,869	3,011	6,199	7,345	7,932	
230- 536500 1310 Health Insurance	5,585	2,240	14,675	17,388	9,589	
230- 536500 1320 Dental Insurance	477	154	978	1,159	725	
230- 536500 1330 Optical Insurance	111	38	224	265	187	
230- 536500 1340 Life Insurance	160	60	190	225	222	
230- 536500 1350 Disability Insurance	266	107	319	378	370	
230- 536500 1360 Pension	4,326	1,688	5,348	6,337	7,050	
TOTAL	79,428	46,643	108,933	129,111	129,755	
GENERAL						
230- 536500 2100 Attorney	10,196	3,155	50,000	20,000	45,000	
230- 536500 2130 Audit and Accounting Expenses	3,850	-	3,850	5,000	4,150	Acig \$3800(add'l invoicing), Audit \$350
230- 536500 2190 Outside Engineering	103,200	5,493	35,000	10,000	35,000	
230- 536500 2260 Cell Phones/Pagers	-					
230- 536500 2430 Equipment Repair & Maintenance	7,493	2,903	6,000	7,000	7,500	
230- 536500 2440 Equipment Use & Rental	-	138	3,500	5,000	5,000	Internal Use
230- 536500 2480 Computer/Program Maintenance	2,375	-	6,000	3,000	6,000	SLAMM, SWMM, GIS, ESRI-\$300
230- 536500 2980 Training & Seminars	2,972	495	3,200	3,500	3,800	

**CITY OF PEWAUKEE
2017 BUDGET
SPECIAL REVENUE - STORM WATER MANAGEMENT**

	2015	2016			2017	COMMENTS
	Actual	6 Month Actual	Year End Forecast	Budget	Budget	
230- 536500 3110 Postage	2,657	54	3,000	3,000	3,200	2016 bill postage \$1334
230- 536500 3200 Dues, Memberships & Subscriptions	470	510	800	800	900	
230- 536500 3210 Meetings & Conventions	385	-	350	500	500	
230- 536500 3300 Mileage	220	94	500	800	1,200	
230- 536500 3400 Operating Supplies	4,894	462	5,000	4,000	5,200	Costs related to billing-2016 Mailcom \$963(in 2016 posted to Postage)
230- 536500 3410 Uniforms & Protective Equipment	1,383	147	1,500	1,500	2,500	
230- 536500 3420 Fuel	4,698	2,240	4,500	7,000	6,500	
230- 536500 3950 New Equipment	-	-	-	-	5,000	file storage
230- 536500 5110 Worker's Compensation	6,651	3,432	7,500	7,801	8,805	w/c for employees
230- 536500 5120 Property & Liability Insurance	2,530	2,611	3,337	3,337	3,400	insurance for equipment
TOTAL	153,974	21,734	134,037	82,238	143,655	
STORM SEWER MAINTENANCE						
230- 536510 1100 Wages	796	85	2,232	2,232	1,955	
230- 536510 1280 Overtime	-	-	-	-	-	
230- 536510 1300 Social Security	61	7	171	171	150	
230- 536510 1310 Health Insurance	91	8	404	404	359	
230- 536510 1320 Dental Insurance	6	-	27	27	18	
230- 536510 1330 Optical Insurance	1	-	6	6	5	
230- 536510 1340 Life Insurance	1	-	5	5	2	
230- 536510 1350 Disability Insurance	2	-	9	9	8	
230- 536510 1360 Pension	53	6	147	147	133	
230- 536510 2150 Easement Acquisition	-	-	-	1,000	1,000	
230- 536510 2200 Digger's Hotline	12,408	7,003	12,000	10,000	13,000	
230- 536510 2400 Televising	-	-	1,500	1,500	35,000	
230- 536510 3510 Storm Sewer Maintenance	-	175	2,500	1,500	3,500	
230- 536510 3520 As Built's & Mapping	-	-	5,000	5,000	5,000	
230- 536510 3530 Curb and Gutter Repair	7,870	-	10,000	10,000	10,000	
TOTAL	21,289	7,284	34,001	32,001	70,130	
DITCH & CULVERT MAINTENANCE						
230- 536520 1100 Wages	50,397	33,597	60,000	49,124	62,720	
230- 536520 1280 Overtime	-	-	-	-	-	
230- 536520 1300 Social Security	3,854	2,573	4,585	3,758	4,798	
230- 536520 1310 Health Insurance	10,601	8,143	10,853	8,896	15,958	
230- 536520 1320 Dental Insurance	694	425	723	593	795	
230- 536520 1330 Optical Insurance	73	48	165	135	219	
230- 536520 1340 Life Insurance	127	83	140	115	154	
230- 536520 1350 Disability Insurance	204	139	237	194	259	
230- 536520 1360 Pension	3,424	2,277	3,955	3,242	4,265	
230- 536520 2150 Easement Acquisition	-	-	-	-	-	
230- 536520 3510 Culvert Replacement	6,694	6,510	15,000	30,000	30,000	Includes road repairs for culvert work
230- 536520 3520 Ditch Maintenance	1,879	3,661	12,000	10,000	10,000	

**CITY OF PEWAUKEE
2017 BUDGET
SPECIAL REVENUE - STORM WATER MANAGEMENT**

	2015 Actual	2016			2017 Budget	COMMENTS
		6 Month Actual	Year End Forecast	Budget		
230- 536520 3530 Brush Removal	-	-	500	2,000	2,000	
TOTAL	77,947	57,456	108,158	108,057	131,168	
PUBLIC WORKS YARD MAINTENANCE				4,466		Compliance
230- 536530 1100 Wages	-	-	-	-	-	230-536560-3520
230- 536530 1280 Overtime	-	-	-	-	-	
230- 536530 1300 Social Security	-	-	-	342	-	
230- 536530 1310 Health Insurance	-	-	-	809	-	
230- 536530 1320 Dental Insurance	-	-	-	54	-	
230- 536530 1330 Optical Insurance	-	-	-	12	-	
230- 536530 1340 Life Insurance	-	-	-	10	-	
230- 536530 1350 Disability Insurance	-	-	-	18	-	
230- 536530 1360 Pension	-	-	-	295	-	
230- 536530 3510 Yard Maintenance	-	-	-	500	-	
TOTAL	-	-	-	6,506	-	
STREET SWEEPING				20,096	11,744	
230- 536540 1100 Wages	8,462	4,628	10,000	-	-	
230- 536540 1280 Overtime	232	-	-	-	-	
230- 536540 1300 Social Security	665	353	765	1,537	898	
230- 536540 1310 Health Insurance	2,648	1,153	1,811	3,639	3,088	
230- 536540 1320 Dental Insurance	114	62	121	243	142	
230- 536540 1330 Optical Insurance	12	7	27	55	42	
230- 536540 1340 Life Insurance	19	12	23	47	29	
230- 536540 1350 Disability Insurance	33	19	39	79	48	
230- 536540 1360 Pension	590	315	660	1,326	799	
230- 536540 3510 Sediment Diposal/Sweeping	2,828	120	1,200	2,000	2,500	
TOTAL	15,603	6,669	14,646	29,022	19,290	
CATCH BASIN CLEANING & MAINTENANCE				29,028	25,439	
230- 536550 1100 Wages	22,375	510	25,000	-	-	
230- 536550 1280 Overtime	-	-	-	-	-	
230- 536550 1300 Social Security	1,709	39	1,913	2,221	1,946	
230- 536550 1310 Health Insurance	4,167	58	4,521	5,257	6,608	
230- 536550 1320 Dental Insurance	273	2	301	350	327	
230- 536550 1330 Optical Insurance	31	-	69	80	89	
230- 536550 1340 Life Insurance	56	1	58	68	62	
230- 536550 1350 Disability Insurance	89	2	98	114	105	
230- 536550 1360 Pension	1,518	35	1,648	1,916	1,730	
230- 536550 3510 Catch Basin Cleaning/Maintenance//	17,080	-	5,000	-	30,000	
TOTAL	47,298	647	38,608	39,034	66,306	
PERMIT COMPLIANCE				22,329	18,448	
230- 536560 1100 Wages	15,584	4,004	15,000	-	-	
230- 536560 1280 Overtime	-	-	-	-	-	

**CITY OF PEWAUKEE
2017 BUDGET
SPECIAL REVENUE - STORM WATER MANAGEMENT**

	2015 Actual	2016			2017 Budget	COMMENTS
		6 Month Actual	Year End Forecast	Budget		
230- 536560 1300 Social Security	1,193	306	1,148	1,708	1,411	
230- 536560 1310 Health Insurance	1,449	382	2,710	4,044	1,735	
230- 536560 1320 Dental Insurance	107	21	180	270	115	
230- 536560 1330 Optical Insurance	26	6	42	62	33	
230- 536560 1340 Life Insurance	40	10	35	52	45	
230- 536560 1350 Disability Insurance	66	17	59	88	76	
230- 536560 1360 Pension	1,060	264	988	1,474	1,254	
230- 536560 2150 Maintenance Agreement-TSS Comp	-	-	5,000	25,000	25,000	40% Total Suspended Solids
230- 536560 3510 Pond Inspections/Field Inventory	-	-	10,000	10,000	10,000	
230- 536560 3520 Yard Maintenance	-	-	-	-	15,000	New Account-Publice Works Yard Maint - see above section deleted
230- 536560 3530 Erosion Control Inspections	-	-	350	15,000	1,000	
230- 536560 3540 Information & Education	2,605	2,605	1,200	7,500	7,500	
230- 536560 3550 Permit Fees	1,500	-	2,000	1,500	2,500	
230- 536560 3560 Annual Report	500	-	500	500	500	
TOTAL	24,130	7,615	39,212	89,527	84,617	
PROJECTS						
230- 573002 8210 Hill 'n Dale Subdivision	122,221	15,345	15,000	500,000	750,000	
230- 573003 8210 Lindsay Road I	-	-	-	-	-	
230- 573006 8210 Emerald Acres/Green Road	-	4,632	15,000	100,000	1,850,000	
230- 573007 8210 Meadowbrook Farms/Deerhaven Dlt	-	-	5,000	20,000	15,000	
230- 573009 8210 Springdale Estates Pond (RNP-4)	-	-	-	-	-	
230- 573010 8210 Retrofit Pond (P24-2)	-	-	-	-	-	
230- 573011 8210 Green Road Storm Drainage	57,693	-	-	-	-	
230- 573013 8210 Sunnyridge Lane Drainage	1	-	-	-	-	
230- 573014 8210 Valley View Drainage	-	-	-	-	-	
230- 573015 8210 Busse Road	6,121	-	-	-	-	
230- 573016 8210 Lakefield/Oak Springs	8,481	-	-	-	-	
230- 573017 8210 Swan Road	1,273	-	-	-	-	
230- 573018 8210 Weyer Road	-	-	-	20,000	-	
230- 573019 8210 Elmwood Lane	15,386	-	-	-	-	
230- 573020 8210 Carmelite Road	297	-	-	-	-	
230- 573022 8210 Public Works Yard Bio-Infiltration	-	-	-	-	25,000	
230- 573023 8210 Rocky Point Subdivision I	-	-	-	-	-	
230- 573025 8210 Lexington Drive Pond	-	-	-	-	-	
230- 573028 8210 Five Fields I	1,213	-	-	-	-	
230- 573029 8210 Five Fields II	67,791	(1,941)	-	900	-	
230- 573030 8210 Hickory Grove Estates	-	-	-	-	-	
230- 573031 8210 High Road	-	-	-	-	-	
230- 573032 8210 Sherwood Forest	-	-	-	-	-	
230- 573033 8210 Lexington Drive Ditch Enclosure	-	-	-	-	-	
230- 573034 8210 Woodside Drive Ditch Enclosure	-	-	-	-	-	

**CITY OF PEWAUKEE
2017 BUDGET
SPECIAL REVENUE - STORM WATER MANAGEMENT**

	2015 Actual	2016			2017 Budget	COMMENTS
		6 Month Actual	Year End Forecast	Budget		
230- 573035 8210 Springdale 2012	-			-		
230- 573036 8210 Five Fields III	-		19,700	88,200		
230- 573037 8210 Shady Lane/Shady Nook	-			94,500	94,500	
230- 573038 8210 Hillside Grove Storm Sewer	315		20,000	50,000	150,000	Wetland Mapping
230- 573039 8210 TMDL Reduction Projects	567			105,000	25,000	
230- 573040 8210 Rocky Point Road Storm Sewer	292			10,000	10,000	
230- 573041 8210 Rocky Point Subdivision II	39,796	(768)		-		
230- 573042 8210 Storm Inlets & Catch Basins	645,273	61,219	62,085	150,000	150,000	
230- 573043 8210 Bluemound East Industrial Park Pav	-		87,486	20,000		
230- 573044 8210 City Storm Water Study	-			350,000	350,000	
230- 573045 8210 Rocky Point Oak/Peninsula	-			20,000	75,000	
230- 573046 8210 Lindsay Road II	-			28,000	90,000	
230- 573047 8210 Pewaukee Woods	-			149,400	90,000	
230- 573048 8210 Duplainville (Tracks to Weyer)	-			-		
230- 573049 8210 Lakeview Area I	-			20,000		
230- 573051 8210 Duplainville Bridge (50R/50S)	1,415		4,000	50,000	50,000	
230- 573052 8210 Busse Rd. Bridge Culvert Repl. (50R	8,270		40,000	50,000	230,000	
230- 573053 8210 Lindsay Rd. Culvert Replacement	65,383			-		Emergency Project Pd by Insurance
230- 573054 8210 Five Fields IV	-			8,500	58,000	
230- 573055 8210 Roundys Park II	-			20,000		
230- 573056 8210 Deer Haven I	-			1,900	54,901	
230- 573057 8210 Steeplechase I	-			-		
TOTAL	1,041,788	78,487	268,271	1,856,400	4,067,401	
CAPITAL EXPENDITURES						
230- 536500 8100 Capital Equipment Expenditures	202,508			-	15,000	1/3 of survey equip- share with W/S and Eng
OTHER EXPENDITURES						
230- 582000 6980 Debt Issue Discount	-			-		
230- 582000 6990 Debt Issue Costs	-			-		
230- 592100 9000 Transfer to Debt Service Fund	218,036	75,340	244,403	259,412	260,337	Annual debt payment
TOTAL	1,882,001	301,875	990,269	2,631,308	4,987,659	
TOTAL EXPENDITURES						
Excess of Revenues Over (Under) Expenditures	(189,177)	1,243,246	589,242	(1,085,044)	(3,356,479)	
Fund Balance:						
Beginning of Year	3,148,696	2,959,519	2,959,519	2,381,757	3,548,761	
End of Year	2,959,519	4,202,765	3,548,761	1,296,713	192,282	