

1. 6:30 P.M. RCC 03/16/2015 Agenda

Documents: [1 RCC\\_20150316\\_AG.PDF](#)

2. RCC 03/16/2015 Packet

Documents: [RCC\\_20150316\\_PK.PDF](#)



City of Fitchburg  
5520 Lacy Road  
Fitchburg, WI 53711-5318  
Phone: (608) 270-4260  
Fax: (608) 270-4275  
[www.fitchburgwi.gov](http://www.fitchburgwi.gov)

**AGENDA**  
**Resource Conservation Commission**  
**Monday, March 16, 2015**  
**6:30 P.M.**  
**Meeting Room**

**NOTICE IS HEREBY GIVEN** that the Fitchburg Resource Conservation Commission will meet at **6:30 P.M. in the Meeting Room** at City Hall, 5520 Lacy Road to consider and act on the following:

(Note: Full coverage of this meeting is available through FACTv and Streaming Video, accessible on the city web site at <http://www.fitchburgwi.gov/677/Government-Channel>)

1. Call to Order
2. Appointment of Timekeeper
3. Public Appearances on Non-Agenda Items
4. Approval of Minutes from February 16, 2015 RCC Meeting (6:32 pm\*)
5. New Business
  - a. **Comprehensive Development Plan Amendment Request CDP(A)-2051-15** by Deborah Hatfield, Agent for Hamm Farm Land, LLC, to Amend the Quarry Vista Comprehensive Development Plan, Lands near Fitchrona/Lacy Road (6:35 pm\*)
  - b. **Preliminary Plat Request PP-2053-15** by Deborah Hatfield, Agent for Hamm Farm Land, LLC, for Approval of a Revised Preliminary Plat for Quarry Vista (7:00 pm\*)
  - c. Waterway Cleanup - Sat., April 18<sup>th</sup>, 9-11 am (7:10pm\*)
  - d. Green Clean-Up - E-cycle, Shred and Clean Sweep - Sat., May 9<sup>th</sup>, 8-11 am (7:25pm)
  - e. Review/Recommend Action on Sand Request for Residents - Steve (7:40 pm\*)
  - f. 2016-2020 Capital Improvement Budget requests (8:00 pm\*)
  - g. Begin discussing Summer Green Thursday event (8:10 pm\*)
6. Unfinished Business
  - a. Green Thursdays, RCC Annual Event - Green Complete Streets, April 9th, 3:00-4:30pm - Chris (8:20 pm\*)
  - b. Update on Municipal Construction Guidelines – Samuel & Diane (8:35 pm\*)
7. Council Update (8:45 pm\*)
8. Staff Update (8:50 pm\*)
  - a. Solid Waste Update
    - i. 2014 Recycling Annual Report
  - b. Stormwater Update
    - i. 2013 - 2014 Stormwater Biennial Report
  - c. Sustainability Update
9. Announcements (8:55 pm\*)
  - a. Next Meeting – tentatively scheduled for May 18, 2015 at 6:30pm in the Meeting Room
10. Adjournment (9:00 pm\*)

\*Times Tentative

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*Note: It is possible that members of and possibly a quorum of members of other government bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Please note that, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact Fitchburg City Hall, 5520 Lacy Road, Fitchburg WI 53711,(608) 270-4200*



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## Staff Memo

City of Fitchburg  
5520 Lacy Road  
Fitchburg, WI 53711  
608-270-4264  
[www.fitchburgwi.gov](http://www.fitchburgwi.gov)

<b>To:</b>	Resource Conservation Commission
<b>From:</b>	Rick Eilertson, Environmental Engineer Erika Kluetmeier, Sustainability Specialist
<b>Date:</b>	March 11, 2015
<b>Subject:</b>	Staff Memo for the March 16, 2015 RCC Meeting

This memo is being written to provide background on the following agenda items for the March 16, 2015 RCC Meeting:

### 2. Appointment of Timekeeper –

Below is the upcoming tentative schedule for Timekeeper:

Meeting Date	Timekeeper
March 16, 2015	Steve Arnold
May 18, 2015	Chris Jimieson
July 20, 2015	Jan Kucher
August 17, 2015	Tony Hartmann
September 21, 2015	Sam Cooke
November 16, 2015	Kia Stearn

### 4. Approval of Minutes from February 16, 2015 RCC Meeting – Draft minutes are included in the packet.

### 5. New Business

**5.a. Comprehensive Development Plan Amendment Request CDP(A)-2051-15 by Deborah Hatfield, Agent for Hamm Farm Land, LLC, to Amend the Quarry Vista Comprehensive Development Plan, Lands near Fitchrona/Lacy Road –** A copy of the referral sheet, March 5, 2011 MARS Response Letter, and revised CDP, dated March 11, 2015, are included in the packet for RCC review and recommendation on approval.

**5.b. Preliminary Plat Request PP-2053-15 by Deborah Hatfield, Agent for Hamm Farm Land, LLC, for Approval of a Revised Preliminary Plat for Quarry Vista –** A copy of the referral sheet, March 5, 2011 MARS Response Letter, and revised Preliminary Plat, dated March 11, 2015 are included in the packet for RCC review and recommendation on approval.

**5.c. Waterway Cleanup - Sat., April 18<sup>th</sup>, 9-11 am –** Currently the plan is for us to meet at Red Arrow Pond, 4523 Crescent Road, and have volunteers focus heavily on the channel that starts behind the Nature's Retreat Apartments and runs easterly through the Dunn's Marsh North Complex. A draft map is included in the packet.

**5.d. Green Clean-Up - E-cycle, Shred and Clean Sweep - Sat., May 9<sup>th</sup>, 8-11 am** – A draft copy of the flyer for these 3 events is included in the packet.

**5.e. Review/Recommend Action on Sand Request for Residents - Steve** – A copy of the correspondence that Steve has had with Cory Horton on this topic is included in the packet.

**5.f. 2016-2020 Capital Improvement Budget requests** – Please bring any ideas for the next 5 year Capital Improvements Program Budget to the meeting.

**5.g. Begin discussing Summer Green Thursday event** – Please bring any ideas for this topic to the meeting.

## **6. Unfinished Business**

**6.a. Green Thursdays, RCC Annual Event - Green Complete Streets, April 9th, 3:00-4:30pm - Chris** – A copy of the flyer for this event is included in the packet.

**6.b. Update on Municipal Construction Guidelines – Samuel & Diane** - Diane will provide an update on this topic.

**7. Council Update** – Diane and/or Steve will provide an update on this topic.

## **8. Staff Update**

### **8.a. Solid Waste Update –**

**i. 2014 Recycling Annual Report** – A copy of this document is included in the packet.

### **8.b. Stormwater Update –**

**i. 2013-2014 Stormwater Biennial Report** – A copy of this document is included in the packet.

**ii. Harlan Hills East Pond and Ashbourne Pond Dredging** – Badgerland Excavating has completed the dredging for both ponds and has just a few miscellaneous items (storm inlet at Harlan Circle, storm pipe, final restoration of disturbed areas, etc.) to finish up before the project is finalized later this Spring.

### **8.c. Sustainability Update –**

**i. Dunn's Marsh Social Marketing Project** – A team of three UW environmental studies students from Nelson Institute are meeting weekly to develop and carry out a pilot community-based social marketing plan. They met with Rick and Mary Mullen to learn about the neighborhood history and stormwater/water quality issues. They also toured Dunn's Marsh and adjacent stormwater ponds (Apache and Red Arrow). Erika is meeting weekly with students. They will continue planning throughout March and will begin engaging neighbors in April.

**ii. Green Team Initiatives** – Erika is working on an internal survey for employees to get some baseline data on commuting habits and barriers. This will help inform the commuter solutions/challenge plan.

- iii. Water Conservation** – Erika worked with Tracy on utility bill stuffer with simple indoor water conservation messages that will go out in March utility bills. Erika and Water Utility staff are evaluating customer web portal options so residents can easily monitor their water usage, billing and other data online.
- iv. Bike Rodeo** – Erika is working with the Bike Rodeo Planning Committee to plan the 2015 bike rodeo in the Hatchery Hills shopping area. The event will also include a guided ride to the Fitchburg Library.

## **9. Announcements**

**9.a. Next Meeting – May 18, 2015 at 6:30 pm in the Meeting Room**

## **10. Adjournment**

# DRAFT MINUTES

Resource Conservation Commission  
Monday, February 16, 2015

**RCC and Staff Members Present:** Steve Arnold, Kia Stearn, Diane Streck, Chris Jimieson, Jan Kucher, Samuel Cooke, Rick Eilertson, Erika Kluetmeier

**Others Present:** Sherrie Gruder, UW-Extension Sustainable Design Specialist

**Absent:** Tony Hartmann

## 1. Call to Order

- Diane called the meeting to order at 6:32 p.m.

## 2. Appointment of Timekeeper

- Kia Stearn was appointed Timekeeper.

## 3. Public Appearances on Non-Agenda Items

- None

## 4. Approval of Minutes from November 17, 2014, RCC Meeting

- *Sam moved to approve the minutes, Kia seconded. Sam and Diane passed around minor grammatical suggested revisions. The minutes were approved as amended.*

## 5. New Business

### 5.a. Strategic Planning Discussion with Sherrie Gruder

- Sherrie provided an overview of The Natural Step management system and planning process as well as the International Council for Local Environmental Initiatives (ICLEI) framework for sustainable local governments, both of which are comprehensive, integrated approaches to managing sustainability in an organization.
- The group viewed UW-Extension's video, *Power Through Partnerships: Brown County and the Oneida Tribe Working Toward Energy Independence*, at <http://energyonwi.uwex.edu/video/power-through-partnerships-brown-county-and-oneida-tribe-working-toward-energy-independence>.
- Sherrie suggested starting small and creating a strategic plan to meet Fitchburg's 25 x 25 Pledge (Wisconsin's 25 x 25 Plan for Energy Independence) which would include energy conservation, efficiency and independence. Sherrie strongly encouraged involving community stakeholders in the planning process. She also mentioned the possibility of using Tech School or Urban Planning students to assist. Sherrie offered additional help with the planning process..
- Diane recommended waiting until May and consider working on a plan to accomplish 25 x 25 goal if the mayor is supportive.

### 5.b. Volunteer Stream Monitoring/Sampling Discussion

- RCC recommended continuing to monitor Nine Springs Creek at Anderberg Drive, possibly rotating responsibility for monthly monitoring among RCC members and community volunteers.
- **Action item: Rick and Erika will solicit community volunteers through articles in *Fitchburg Star*, *Green E- Blasts* and website.**

# DRAFT MINUTES

## 6. Staff Update

### 6.a. Solid Waste Update

- The Electronics Recycling, Shred, and Clean Sweep events are confirmed for May 9<sup>th</sup>.

### 6.b. Stormwater Update

- Rick mentioned that a draft of Fitchburg's biennial 2013-2014 Stormwater Report was included in the packet and will be submitted to DNR at the end of March. RCC members may forward any comments to Rick.

### 6.c. Sustainability Update

- Since the primary audience for the Green Complete Streets event is municipal staff, consulting professionals and neighborhood associations, the event will be held during the workday with FACTv taping the event for residents who may be interested.
- Once Bernie is confirmed and the library room is reserved, marketing will begin. The time change needs to be sent to The Green Tuesdays and Thursdays program coordinator and the Isthmus.
- COS will evaluate moving Green Thursday events to second or third Thursday of the month.
- **Action items:**
  - **Erika will contact Bernie Lenz to confirm the event for 3:00-4:30 p.m. on April 9<sup>th</sup>.**
  - **Erika will contact the library to reserve room A/B.**

## 7. Announcements

- Diane will present RCC's 2014 Annual Report and 2015 Calendar of Events and Workplan to the Common Council on Feb. 24<sup>th</sup>.
- Diane's term as RCC Chair is up in April. RCC will elect a new chair in May since there is no meeting in April.

### 7.a. Next Meeting

- Monday, March 16, 2015 from 6:30-9:00 p.m. in the Meeting Room.

## 8. Adjournment – 9:13 p.m.

# City of Fitchburg

## Committee or Commission Referral

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Direct Referral Initiated by:  
Direct Referral Approved by:

Date Referred: February 24, 2015                      Ordinance Number:  
Date to Report Back: **March 24, 2015**                      Resolution Number: R-XX-14

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Sponsored by: Mayor    Drafted by: Planning / Zoning

TITLE: Comprehensive Development Plan Amendment Request CDP(A)-2051-15 by Deborah Hatfield, agent for Hamm Farm Land, LLC, to amend the Quarry Vista Comprehensive Development Plan , lands near Fitchrona/Lacy Road.

Background: Applicant is requesting to amend the Quarry Vista CDP to include the landfill boundary, include revised preliminary plat, along with other changes described in the revised CDP.

Order	Referred To	Staff Contact	Place on Agenda For	Action Taken On Referral
1	Plan Commission	Hovel/Badtke	March 17, 2015	
2	Resource Conservation Commission	Eilertson	March 16, 2015	

Amendments:

March 5, 2015

Mr. Thomas Hovel  
Zoning Administrator/City Planner  
City of Fitchburg  
5520 Lacy Road  
Fitchburg, WI 53711

Re: Quarry Vista  
Amended CDP, PP and Rezoning Response Letter  
MARS Project Number: 1613c

Dear Tom:

We received Planning and Public Works staff comments on February 27, 2015. We have prepared this letter to address the comments and have revised the amended Comprehensive Development Plan (CDP) and Preliminary Plat to incorporate necessary changes. Enclosed are three copies of the revised CDP, Preliminary Plat and CDP with the revisions highlighted.

The staff comments are listed below with our response in red.

Planning Comments:

Revised CDP Comments:

- 1.) Cover page should reflect that this is the February 17, 2015 amendment to the previously approved CDP under Resolution R-12-14.  
**Response: Cover page has been revised.**
- 2.) Page 1 Section 1, Page 6 Section 3.4 – You should recognize that the City was not made aware of the landfill at the time of platting and zoning approvals. When the City discovered the landfill issue in late summer, it was clear that plan was inconsistent with public dedications and improvements.  
**Response: A discussion is included in the text.**
- 3.) Page 1 Section 1 last sentence – The CDP is submitted under Chapter 24 Land Division Ordinance, which requires the CDP.  
**Response: The last sentence has been revised to say Chapter 24.**
- 4.) Page 2 Section 2.2 – some of the property in the development has been rezoned; the CDP should reflect the rezoning(s) that have already taken place.  
**Response: The section has been revised to reflect the rezoning which has already taken place.**
- 5.) Page 6, Proposed Housing Mix - references an Exhibit but does not identify the number. Should this be Exhibit 4?  
**Response: The reference has been revised to say "Figure 4".**
- 6.) Page 6 Section 3.1 – the total units and mf count will be reduced than that shown (indicate 156 mf units but approved GIP for proposed lot 46 is 152 mf units).  
**Response: To provide the apartment lot flexibility in unit numbers, the reference has been changed to say "up to 156 units".**
- 7.) Page 7 Section 3.4 – You state that the landfill closure plan "will be acceptable to all parties", but

it should be noted that at the time of this submittal no formal approval has been granted by the DNR.

**Response:** It is true that at the time the CDP Amendment was submitted, the landfill closure plan was submitted to the DNR but not approved. However, since the CDP submittal, we have continued to meet with and communicate with DNR and City staff in an ongoing review of the closure plan and follow-up documents. This process will result in a closure plan approval that incorporates both DNR and City concerns and direction.

- 8.) Page 7 Section 3.4 – You identify steps for the closure plan activities and end with #7 being the recording of the plat, but nowhere is the city review and approval of the plat in these steps. Staff suggests removing step #7 or alternatively adding a step related to the City review and approval process of the plat.

**Response:** Step #7 has been removed.

- 9.) Page 13/14, Proposed Land Use Data – CDP shows the multi-family development as 156 High Density Apartments; the approved GIP zoning for previously OL9 (now proposed Lot 46 QV) is for 152 units. Please confirm and update data and calculations appropriately.

**Response:** The calculations are based on 156 units to allow the apartment lot flexibility in case they find a way to increase the number of units to 156, the number of units in the original CDP.

- 10.) Page 14, Proposed Zoning – “Initially, the single family areas of Phase One will be rezoned to the proposed zoning while the multi-family lot will be rezoned to A-S”. Given this is an amendment, this should be updated to reflect the current zoning. The sf lots have been rezoned to R-LM and the mf lot is zoned PDD-GIP. Please update and address accordingly.

**Response:** The text has been updated to reflect the rezonings which have already occurred.

#### Preliminary Plat Comments:

- 1.) Previously you had informed staff that the drainage easement on outlot 1 was 14,424 sq ft; the proposed preliminary plat shows the easement as 14,384 sq ft. Please confirm the correct size.

**Response:** The drainage easement shown on the Preliminary Plat is 14,384 SFT.

- 2.) Comment 10 on preliminary plat states that “Outlots 10 and 12 are Dedicated to the public for park and open space, pedestrian/bike path and public water main purposes”. OL 12 is reserved for the single-family home condominiums. Should this not be Outlots 9, 10 and 11 for park and bike path and outlot 12 for future development?

**Response:** Outlot numbers have been revised.

- 3.) The preliminary plat needs to identify the purpose for Outlots 17 & 23. Note 14 states that they are for future environmental corridors but does not identify their purpose. On the previously approved Preliminary Plat these areas were for “private for Drainage purposes owned by the other lots. Each lot shall have 1/150 ownership”. Please note their purpose and ownership on the plat.

**Response:** The purpose for the outlots has been added to the plat. During the previous final plat process, Rick Eilertson requested a change in the language from the original preliminary plat (private for drainage purposes owned by the other lots. Each lot shall have 1/150 ownership) to what is shown now (private for stormwater management purposes owned by members of the Quarry Vista Home Owner’s Association.)

- 4.) Park Improvement fees: Total park improvement fee due for the entire plat (using 318 units as proposed lot 46 GIP zoning calls for 152 units) is \$117,170 in 2015 dollars. The fee will be adjusted to reflect the park improvement fee for the year in which the fee is paid.

Phase 1: \$30,860

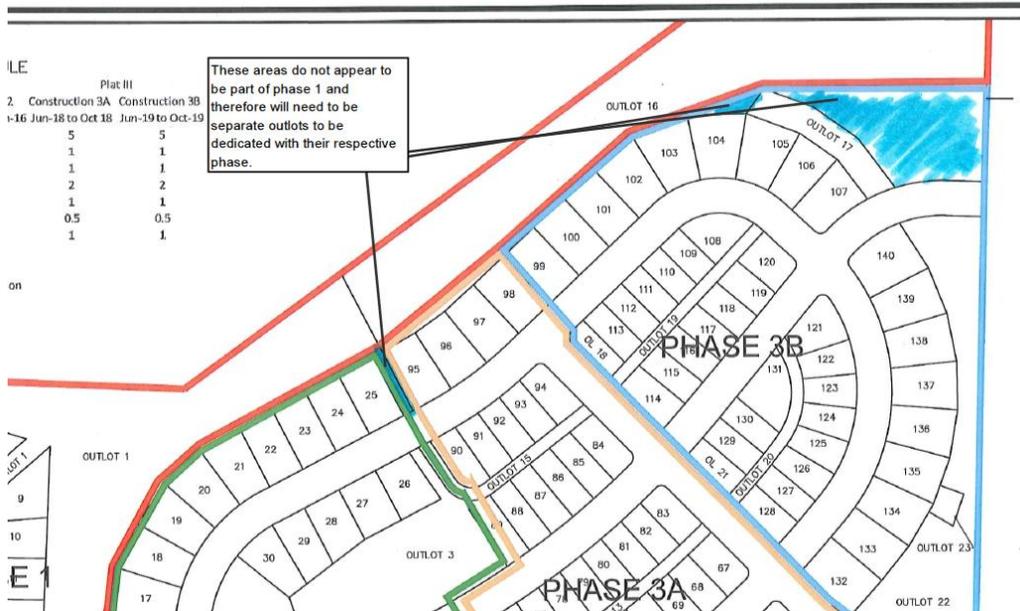
Phase 2: \$27,720

Phase 3: \$58,590

These fees will be required to be paid prior to the signing of the final plat for each respective phase.

**Response: Acknowledged.**

- 5.) In comparing the CDP phasing plan to the preliminary plat, it appears that there are portions of outlots 1 & 16 that will not be dedicated to the City during phase 1. If correct, these will need to be separate outlots to match the phasing. The areas are identified in the image below.



- 6.) Parkland dedication:

Without knowing how the phasing plan overlaps on the preliminary plat, as outlots 1 & 16 are not shown to be fully dedicated during phase 1, it is difficult to analyze parkland dedication for phase 1.

Staff has calculated the total parkland being dedicated and that which is required for the full preliminary plat, based on 318 dwelling units (proposed lot 46 GIP zoning calls for 152 units). The full preliminary plat will be deficient by 126,094 sq ft of parkland, which is equivalent to \$188,271.39 in fee in-lieu of parkland dedication in 2015 dollars. The fee will be adjusted to reflect the fee in-lieu of parkland for the year in which the fee is paid.

Please note that without the information on what portions of outlots 1 & 16 are being dedicated with each phase, staff cannot perform specific calculations per phase.

**Response: The outlots have been revised to match the phasing so the specific calculations can be performed. We understand that since we requested the CDP to reflect 156 units, the calculations will be based on that number of units, not the 152 approved by the PD-GIP.**

- 7.) Parkland Street Frontage:

Based on the overall preliminary plat, with 318 dwelling units, the total required street frontage for parkland is 1,396 feet. The proposed preliminary plat provides 1,245.8 feet, leaving a deficiency for parkland street frontage of 150.2'. In 2015 dollars, the fee in-lieu of street frontage for parkland is \$52,570.

For phase 1, as represented in the CDP, the total street frontage for parkland required is 140.16'; the preliminary plat shows that 83.8' is being provided, leaving a deficiency of 56.36' or \$19,726 (2015 dollars – fee will be adjusted to year in which fee is paid).

The City may be agreeable to the creation of an Escrow account to cover the deficient street frontage for phase 1, although as noted above, the overall plat is showing a deficiency even when all parkland areas have been dedicated.

**Response: We acknowledge the deficiency and will work with the City to address the required fee in-lieu of.**

## Public Works Comments

### **General Comments**

1. Rezone – Does “P-R” zoning allow for landfill use?  
**Response: P-R zoning is applicable for the outlot’s proposed land use of private open space. The outlot will not be used as a landfill.**
2. Preliminary Plat – The existing landfill area must be identified on the preliminary plat.  
**Response: The existing landfill area has been identified on the preliminary plat.**
3. Preliminary Plat – Note 14 – Please update spelling of “environmental.”  
**Response: The spelling has been corrected.**
4. Preliminary Plat – Please add “Brownstone Road” in the appropriate location.  
**Response: Brownstone Road has been labeled.**
5. A developer agreement will be needed for the public improvements.  
**Response: Understood.**
6. Provide certification letters, from all utility companies that will service this plat, that the easements shown on the plat are sufficient to service this plat. Only utility crossings are allowed within the right-of-way.  
**Response: The utility companies have been contacted and easements shown on the plat per their input. Additional easements will be needed in the alley loaded PDD areas once the pedestals have been located adjacent to the alleys. In Swan Creek, the required easements were prepared based on the as-built location of the peds and were in a separate document (not included on the plat.) We’ll request certification letters from the utility companies and will try to get them for the final plat (which is when the City’s ordinances requires easements to be shown.)**
7. Our Land Division Ordinance requires that if a subdivision is adjacent to a major street that adequate protection of residential properties be done with screen planting and non access restrictions along the rear property line. With the proposed Outlots 9, 10 and 11 this requirement is satisfied.  
**Response: Acknowledged.**
8. Developer must confirm if any grading work is necessary on the property of 2700 Fitchrona Road to allow for the construction of Quarry Vista Drive. If grading work is required, developer shall obtain and provide a copy of a signed agreement, or grading easement, from the property owner to confirm their approval of the grading plan.  
**Response: A copy of the signed agreement with the owner of 2700 Fitchrona Road is attached.**
9. The Department of Natural Resources issued five pages of comments (February 25, 2015) to the proposed landfill plan modification. These comments could impact the proposed plat. Any subsequent changes to the DNR plan modification may necessitate a revised plat and additional comments from the City.  
**Response: Acknowledged.**

### **Transportation Comments**

1. Preliminary plans and profiles were not submitted with this plat. Plans and profiles must be submitted prior to Plan Commission approving preliminary plat.  
**Response: Preliminary plan and profile drawings were submitted previously. Preliminary P & P drawings for the Phase II area (the eastern half of the site) were submitted May 21, 2014. Those plans have not changed nor need to change. A number of sets of plans have been submitted for the Phase 1 area (the western half.) The most recent set of Phase 1 plans was submitted on September 19, 2014.**

### Water Main and Sanitary Sewer Comments

1. CDP – Figure 6
  - Water and sanitary sewer laterals are currently shown going into Outlot 5 (the proposed modified landfill area). Please remove the laterals to this Outlot. Please add water and sanitary lateral(s) to Outlot 3 for a potential future shelter/water fountain/bathroom facility.
  - Show water main to the eastern plat line along Lacy Road.  
**Response: Figure 6 has been revised as requested.**
2. Preliminary Plat
  - Note 10 indicates dedication for “Outlots 10 and 12 for public water main purposes.” Did you mean Outlots 9, 10 and 11? **Response: Outlot numbers have been revised.**
  - Provide a 30’ public water and sanitary easement on the plat between Lots 60 and 61 for water and sanitary service for Outlot 12 as shown in CDP Figure 6. **Response: We added a 30’ easement to serve Outlot 12 but added it between Lots 59 and 60. Figure 6 has been updated to reflect this location.**
  - Provide 20’ public sanitary sewer easement between Lots 7 and 8 and on Outlot 1. **Response; Easement has been added.**
3. The City’s water system currently ends at the intersection of Nesbitt and Fitchrona Road. The City will need to extend water main south along Fitchrona Road to Quarry Vista Drive to service this plat. This water main extension will need to be coordinated with the developer. As this water main will be paid for through impact fees and assessments, the Developer will be assessed for their frontage. The City is concerned about the capital investment of this main. What guarantee will Hammersley provide to ensure development will not be halted by the landfill; that the City will recover these water main costs through impact fees within the development within a reasonable period of time?  
**Response: Hammersley acknowledges the loss of impact fees if the development is delayed beyond the proposed schedule. Hammersley will provide a guarantee in a format acceptable to the City. Perhaps a Letter of Credit would be sufficient.**
4. Please describe the occupancy schedule for this development as it relates to water quality. The Utility’s water age goal is three days or less. How will this goal be maintained in Quarry Vista? The proposed water main on Fitchrona Road that will service this development holds approximately 10,075 gallons of water. To turn the water over in this main every three days, approximately 80 apartment units will need to be occupied. This is based on 2014 water usage at The Vue (115 units at 1,771.917 gpy; 42.2 gpd/unit). This also does not take into account the age of the water at the connection point of this proposed water main at Nesbitt Road.  
**Response: Per the apartment lot developer, the buildings will be constructed consecutively, 4-6 weeks apart so there should be enough units to provide adequate water quality as fast as can be reasonably expected.**

### Erosion Control and Stormwater Management (ECSWM) Comments

1. CDP – Page 12 still references “stormwater tree” systems. It’s recommended that the terminology be updated to match the “Street Terrace Infiltration Area” concept described in the most current Stormwater Management Plan. **Response: Reference has been updated.**
2. CDP – Figure 3 – Please confirm if DNR has determined the Quarry Ridge Greenway to be “navigable”. If so, please update Figure 3 to show appropriate offsets.  
**Response: we have not taken up the issue of navigability determination for the City-owned Quarry Ridge Greenway directly with DNR, which we believe is appropriate. Note that a possible determination of navigability for the Quarry Ridge Greenway does not affect the Quarry Vista development plan. As confirmed with Tom Hovel and Susan Sloper on March 4, 2015, the City of Fitchburg does not have a shoreland zoning ordinance. No DNR restrictions or setbacks apply if navigability is determined other than potentially needing a “Grading on the Banks of a Navigable Waterway” Chapter 30 permit which is now simply part of the NOI coverage anyway.**
3. CDP – Figure 7 – Please update storm sewer pipe alignment from Turnstone Circle to Quarry Ridge Wet Pond based on the November 3, 2014 walk-through that Rick Eilertson and Scott Endl had with Russ Pietz (MARS). **Response: Figure 7 has been updated.**

4. Preliminary Plat – The drainage along Outlot 1 shall drain from Turnstone Circle right-of way to the Northeast to eliminate chance of surcharging above the sidewalk elevation on Turnstone Circle.  
**Response: The drainage arrows adjacent to Outlot 1 at the end of Turnstone Circle have been updated to drain to the northeast without a high spot.**
5. Preliminary Plat - The delineated boundary of the wetland in Outlot 1 must be shown on the Preliminary Plat. Concurrence from DNR must be submitted along with a confirmation of whether the Quarry Ridge Greenway has been determined to be navigable. If navigable, the appropriate offsets will need to be shown.  
**Response: The delineated wetland boundary has been added. DNR has provided concurrence of the wetland boundary to the Developer and the City. See answer to #2 above regarding navigability.**
6. Preliminary Plat – Note 11 indicates “Outlots 2, 5 & 8 are private for stormwater management purposes...”. Is this intended to be Outlots, 2, 4, and 7? What about 14 and 18?  
**Response: The note has been updated to reflect all private stormwater management outlots.**
7. Erosion Control Permit 14-126 is currently in effect for the Phase 1A area which includes a portion of the proposed Preliminary Plat area (Quarry Vista Drive, Turnstone Circle, Lots 1-15, Turnstone Lane, Stone Gate Drive, Rock Ridge Road, Outlots 2, 4, 5, 6, & 7, and Lots 35-45. This permit does not currently include Lot 46, so if pre-grading > 4,000 s.f. is desired on this lot, a permit amendment will need to be requested, or a new EC permit application must be submitted.  
**Response: Pre-grading of Lot 46 is desired. A permit amendment has been submitted to the City and we are waiting for confirmation of the request.**

Please contact me at 608-839-4422 with any questions.

Sincerely,

Montgomery Associates: Resource Solutions, LLC



Deborah J. Hatfield, PE  
Project Engineer

Enclosures:

Copy, w/enclosures: Keith Hammersley  
Phil Sveum

Agreement between Craig and Rachel Pringle and Keith Hammersley dated 8/26/14

- Survey and reinstall all property irons that are impacted during construction.
- Finish grade, seed and mulch all areas of disturbance including areas disturbed by equipment.
- When cutting or filling, use a minimum of 6 inches of topsoil when finish grading.
- Remove trees on our property as directed by homeowner (near south property line). ✓  
Homeowner will mark trees that should be removed and discuss details with operator ✓ during construction.
- Remove topsoil in an area near NE corner of house approximately 25'x20'x1' deep. Build retaining wall (approximately 1 to 2 feet tall x 25 feet long) along the edge of the patio area as directed by homeowner. Use the same limestone block material as the walls being constructed along the south property line. Backfill excavated area with 1 1/4" or 1 1/2" washed or clear stone. Specific layout of area to be determined prior to work being done – design work needs to be completed on this area.
- Install 1-inch water lateral to the southeast corner of the house following a path to be determined in field by operator and homeowner. The approximate length of lateral is +/- 70 feet, measured from the property line.
- Install limestone block retaining wall along south property line from approximately STA 40+50 to STA 41+50, with the end at 41+50 curving north to blend into the existing terrain.
- Install limestone block retaining wall along south property line from approximately STA 42+05 to east lot line or farther east.
- Homeowner and operator(s) doing retaining wall work will discuss and reach agreement on the construction layout of the walls to blend appropriately into the existing terrain as they are constructed. Homeowner will be available for consultation during construction process. The blocks should be placed in order to allow a fence to be installed one foot off of property line on the homeowner's property.
- The homeowner will review and approve installation specifications for the retaining walls (free draining backfill material) if not approved prior by the City of Fitchburg.
- Include \$19,000 payment to homeowner. Payment to be made within 60 days of completion of sidewalk and street work on the portion of Quarry Vista adjacent to Pringle property.

Craig a Pringle 8/26/14  
Keith E. Hammersley 8/26/14

**Amendment to  
Comprehensive Development Plan  
Previously Approved  
Under Resolution R-12-14  
Quarry Vista  
Fitchburg, Wisconsin**

Hamm Fam Land, LLC  
Fitchburg, WI  
February 17, 2015  
*Revised March 5, 2015*  
*Revised March 11, 2015*



Prepared by:

**Montgomery Associates**  
*Resource Solutions, LLC • ma-rs.org*

In collaboration with:  
**Tim Anderson Consulting, LLC**



**Comprehensive Development Plan  
Quarry Vista**

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## Project Contacts

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## 1 Introduction

Hamm Fam Land, LLC first submitted a Comprehensive Development Plan (CDP) for the Quarry Vista development in December 2013, and that plan was approved by the City in January 2014. A closed, licensed landfill exists on the property. The City of Fitchburg did not know about the landfill at the time of platting and zoning approvals. When the landfill became known in August and September 2014, inconsistencies between the plan and public dedications and improvements were discovered. This revised CDP submittal addresses conflicts between an August 2014 DNR closure plan approval for the licensed landfill on the property and City requirements for the project. Addressing the landfill issue has required extensive communication and coordination between the City, the DNR and Hamm Fam Land, as well as some redesign of the project. The result of that process is this revised CDP submittal to the City, as well as a January 2015 revised landfill closure plan submittal to DNR.

The CDP will be used as the guide for reclaiming and redeveloping the former 72 acre Hammersley Stone Quarry located at 6292 Lacy Road. Hamm Fam Land, LLC is proposing to develop a mixed residential neighborhood that will include single family lots, duplex lots and condominiums along with a higher density site that will possibly include apartment or assisted living units.

The Hammersley family has successfully operated a stone quarry at this location for over 60 years and is nearing the final stage of reclaiming and restoring the property to prepare it for development. The site has been designated by the City of Fitchburg for residential development since 1995 and it is within the city's Urban Service Area and Future Urban Development Area (FUDA) boundaries.

Detailed planning for this site was initiated by the Hammersley family in 2005. Since then, the Project Team has met with neighboring property owners and has worked with city staff to resolve various issues that affect development at this location and to design an attractive, environmentally friendly, viable residential neighborhood.

This CDP is submitted for review and approval by the City of Fitchburg under Land Division Ordinance Chapter 24.

## 2 Existing Conditions

### 2.1 Site Location and Neighborhood Context

The subject property consists of approximately 72 acres located at the northeast corner of Lacy Road and Fitchrona Road in Section 7 of the City of Fitchburg. The northern boundary of the property abuts the Quarry Ridge Recreation Area. Single family lots and Fitchrona Road form the western boundary while Lacy Road defines the southern boundary. The eastern edge of the property abuts a working quarry owned and operated by Payne & Dolan, Inc.

Figure 1 shows the project location and the surrounding neighborhood context. In the greater area surrounding the site are:

- To the West: The Town of Verona's Goose Lake and Wendelwood neighborhoods encompass approximately 108 acres with 64 residences.
- To the North: The City of Fitchburg's 52 acre Quarry Ridge Recreation Area, which includes 2.45 miles of hiking and off-road terrain bicycle trails. The park is also an access point to the Military Ridge State Trail. The Quarry Ridge Wet Pond (constructed as part of the city's Jamestown stormwater management plan) is located in the central portion of the park.
- To the East: The 37.8 acre Payne & Dolan quarry is immediately east of the site, beyond which the lands are in agricultural use. The *North Stoner Prairie Neighborhood Plan*, completed in November 2013 recommends commercial and industrial uses for the area that directly adjoins the eastern boundary of the proposed Hammersley Quarry Redevelopment.
- To the Southeast: The 56 acre Fitchburg Minerals quarry site.

## 2.2 Zoning

The property is currently zoned PD-SIP, P-R, R-LM, Rural Residential and Rural Development.

## 2.3 Topography

Figure 2 shows the current conditions on the project site. The topography of this site has been substantially altered during the past 60 years of mining operations. Pre-quarry, this site was dominated by a heavily wooded ridgeline running northeasterly from the Lacy Road – Fitchrona Road intersection. This ridge crested at approximately elevation 1120 feet – nearly 160 feet above the surrounding countryside. The quarry has been excavated along the centerline of the highest portions of the ridge. The lowest elevation within the quarry is approximately 964 feet, which is approximately 16 feet below the elevation of the Lacy Road – Fitchrona Road intersection). Currently, there are two main sections of quarry on the site: an eastern section that has active quarrying, crushing and loading operations and a western section that is not active and is currently being filled with compacted soil. The area between the two has already been filled in.

The quarry operations are largely obscured from view along Lacy and Fitchrona Roads and from the city's Quarry Ridge Recreation Area by the remaining steep wooded hillsides of the ridge. Figure 2 shows areas with 12% or greater slopes.

Final reclamation grades will need to tie to the elevations on Fitchrona Road centerline (approximate elevation 985), the final excavation depth of the Payne & Dolan Quarry to the east (approximate elevation 1060 feet), the centerline profile grades of Lacy Road (which rises from elevation 995 to 1045), and the Quarry Ridge Recreation Area drainage way elevation (approximate elevation 965).

## 2.4 Surface Water Hydrology

The Quarry Vista site is located within the Goose Lake watershed, which is a closed depression. Goose Lake, a 20 acre prairie-pothole, occupies the lowest portion of the watershed and is situated approximately 700 feet to the west of the project site in the town of Verona (see Figure 1). The water levels of Goose Lake fluctuate in response to runoff input, and were significantly elevated during the heavy storms of 2008. If water levels in Goose Lake become extremely high, the lake overflows in a southwesterly direction toward Badger Mill Creek, which drains to the Sugar River. Currently, the central portion of the Hammersley Quarry site is internally drained to the East and West Quarry areas of the site. In these areas, storm water runoff typically accumulates at low points on the quarry floor, where it evaporates or infiltrates into the bedrock floor of the quarry. The southern slopes of the site drain to the Lacy Road right-of-way. The westernmost portion of the site drains toward the Fitchrona Road right-of-way, and the North-facing slopes of the site drain toward the Quarry Ridge Recreation Area and the 630 acre Jamestown Watershed. Drainage from the redevelopment site reaches Goose Lake via existing culverts beneath Fitchrona Road which include flow from Lacy Road as well. (See Figure 7).

Prior to development, approximately 50 acres of the site drained to the north, towards the Quarry Ridge Recreation Area and then drained westerly to Goose Lake. The southern 20 acres drained to the south and southwest to a farm field swale and then northwesterly to the Lacy Road – Fitchrona Road intersection and then northwesterly via roadside ditches to Goose Lake. Drainage from Goose Lake drains westerly and feeds the Badger Mill Creek and its associated wetlands.

The City of Fitchburg established the Jamestown Stormwater Assessment District to create and maintain a series of stormwater detention ponds along the drainage system discharging to Goose Lake. These ponds control the peak rate of runoff and remove sediment from the surface water runoff flowing to Goose Lake.

## 2.5 Groundwater Hydrology

In general, there are three groundwater systems in the area: a shallow aquifer comprised of glacial deposits; an upper bedrock aquifer comprised of several Ordovician and Cambrian aged sandstones and dolomites; and a lower sandstone aquifer comprised of the lower Eau Claire Formation and the Mt. Simon Formation. A layer of shale approximately 10 feet thick in the Eau Claire Formation separates the two bedrock aquifers. Most municipal wells in Dane County draw from both the shallow and deep bedrock aquifers; however newer wells are typically open only to the deeper Mt. Simon sandstone aquifer. Available information indicates that a groundwater divide is present in this area separating groundwater flowing west to the Sugar River and groundwater flowing east toward the Yahara River, and that groundwater in both bedrock aquifers below the project site flows northeast towards Nine Springs Creek and the Yahara River.

Hammersley Quarry is situated near the top of the upper bedrock aquifer. The lowest bedrock exposed is the St. Peter Sandstone, which has relatively high and uniform permeability. Above the St. Peter,

dolomites of the Galena, Decorah and Platteville Formations are exposed, particularly in the eastern quarry area. These units are also highly permeable due to extensive horizontal and vertical fractures.

## 2.6 Natural Features

The Quarry Vista site contains approximately 20 acres that have not been disturbed by quarry operations. These remaining areas of native vegetation are located in the northerly and southerly hillsides and are comprised predominately of upland hardwood forest species. Each of these areas includes several high quality old growth trees and vegetation including black oak, white oak and hickory, but are dominated by lower quality woods with a predominantly weedy and brushy understory. The disturbed portions of the site are covered with lower quality vegetation that has invaded and established in areas where the active quarry and fill operations have ceased.

The northern wooded hillside and the adjacent Quarry Ridge Recreation Area (despite active recreational use) provide habitat for diverse wildlife populations.

## 2.7 Environmental Designations

The environmental designations for the proposed development site and adjacent areas are shown on Figure 3. Wetland designations were taken from the Wisconsin Wetland Inventory on the DNR Surface Water Data Viewer, Environmental Corridors and areas of steep slopes from the Dane County online mapping application and the Park and Conservancy area designations from the City of Fitchburg 2013 land-use plan. As Figure 3 illustrates, the previously-mapped designations on the proposed development site include areas of steep slopes, and areas that were shown to be potential Park and Conservancy lands in the city's 2013 Land-Use Plan.

A small wetland area is located within the 66 foot wide "panhandle" of land that runs adjacent to the Quarry Ridge Recreational Area and connects to Fitchrona Road. In October 2014 Eco-Resource Consulting (ERC) evaluated the site and delineated a 203 SF wetland in an excavated pit. The character of this wetland suggests that a 75 foot buffer is applicable. The buffer does not extend into the proposed lots. The wetland will not be impacted by the proposed public improvements associated with the plat. See Figure 3.

A small portion of the westernmost part of the project site could be subject to buffer constraints associated with the existing wetlands to the West of Fitchrona road, if a 300-foot buffer was deemed to apply to the area. However, the character of this wetland and the separation of the wetland from the development site by Fitchrona road and associated drainage features suggests that the 75 foot buffer is more applicable to the wetland area west of Fitchrona road. Wetland buffer widths of 75 feet do not extend into the proposed development site from this wetland.

Figure 3 illustrates that, as discussed above, much of the area of the North-facing and South-facing slopes of Quarry Vista are steeper than 12%. The potential Park and Conservancy areas noted in the 2013 land-use plan include the margin of the site adjacent to the Quarry Ridge Recreational Area, the

eastern portion of the site which includes active quarry operations, a small portion of the southeastern-most portion of the site that is in residential and woodland use. Additionally, a “finger” of potential parkland is shown on the westernmost margin of the site, crossing part of the existing residential lots and Fitchrona Road, potentially indicating a desire for North-South pedestrian or bicycle transit, although the designation does not extend into the Quarry Ridge Recreational Area (see Figure 3).

An inactive closed landfill is located within the central portion of the Quarry Vista site, as shown on Figure 3. Based on a DNR file data, the landfill was licensed as a 5.0 acre site in 1972 for non-combustible waste disposal but also permitted to accept wood matter, trash, and garbage. Based on Owner and DNR information, the landfill primarily accepted construction demolition material from highway projects and was operated as a private site until it received site closure status in 1980. While the original landfill licensed area was 5.0 acres, a test pit investigation indicates that the actual filling area was much smaller; about 1.5 acres (see Figure 3). No landfill activities have occurred since 1980. Since 1980, there have been no DNR requirements for environmental monitoring or reporting at the site.

## **2.8 Transportation**

The main streets supporting development in this area of the city are Fitchrona Road and Lacy Road with Nesbitt Road and Seminole Highway completing the overall network. Fitchrona Road is the primary north-south route and is an important linkage between McKee Road/CTH PD to the North and the City of Verona (via Whalen Road) to the south. Lacy Road is a major east-west arterial through the city. Currently, the area is not served by a transit system. Access to the Military Ridge State Trail is 300 feet north of the subject site. Future bicycle routes are planned for both Lacy Road and Fitchrona Road.

## **2.9 Availability of Water and Wastewater Services**

Sanitary sewer is readily available both in Fitchrona and Lacy Roads and an 8” main was previously stubbed into the site from Fitchrona Road. Water service is from the Nesbitt Road/Fitchrona Road intersection will be extended by Fitchburg to the Quarry Vista Drive – Fitchrona Road intersection.

## **2.10 Parks**

The Quarry Ridge Recreation Area borders the north boundary of the subject site. This park consists of a wooded area with steep slopes and an 11 acre wet pond that collects stormwater from the Jamestown Neighborhood. This park provides for more than 3 miles of off-road mountain bike and hiking trails and includes a picnic shelter and restrooms. This park provides direct access to the Military Ridge State Trail.

## **2.11 Schools**

The subject site is in the Verona School District.

## 3 Proposed Development

### 3.1 Proposed Site Plan

The Quarry Vista project proposes a mixed residential neighborhood with 322 units on 72.4 acres including 124 single family lots, 12 single family condominium units, 30 duplex units and 156 multi-family units for a gross density of 4.4 DU/Ac. Figure 4 illustrates the proposed plan including the proposed layout of lots, roadways and connecting greenspace.

### 3.2 Proposed Planning Approach

The proposed Quarry Vista CDP primarily focuses development in the areas of the site disturbed by quarry operations in order to preserve the site's natural features (wooded vegetation and steep slopes) that border the Quarry Ridge Recreation Area on the north and Lacy Road on the south. A small area of woodland along Lacy Road will be disrupted by the proposed single family condo lot. The proposed CDP provides an efficient system of streets organized in an east-west orientation to maximize solar orientation for the majority of the housing units. The street system generally follows the site's existing topography which rises from a low point at Fitchrona Road to a high point on the site's northeast boundary with an approximate 80 foot elevation change. The orientation of the housing units and the rising topography will allow for viewsheds to Blue Mounds to the west and the rural landscape to the south and west.

The following points summarize the Quarry Vista CDP planning approach:

- Preservation of natural features.
- A range of housing choices, lot sizes and building types to promote diversity and affordability.
- An efficient street system that promotes a connected neighborhood.
- A system of active and passive recreation areas that includes large and small parks and hiking/walking trails through the site's natural areas.
- Preservation of quarry walls as design features for new parks and the use of quarried stone in the site's landscape design to promote the site's quarry heritage.
- Solar orientation and viewsheds.
- Pedestrian and bicycle connectivity.
- Utilization of the site's open space system to maximize stormwater infiltration.
- Consolidation of the landfill area in an environmentally responsible manner to create an area of privately owned green space.

### 3.3 Proposed Housing Mix

The Quarry Vista CDP proposes a variety of lot sizes and building types which are identified on Figure 4 and include the following designations. Note: The sizes for each designation are averages and may vary.

SF-A (16 lots) – 70' x 125' single family detached lots located on the both sides of Quarry Vista Drive west of the phase line.

SF-B (56 lots) - 80' x 125' single family detached lots located on the north and south perimeters of the development.

SF-C (52 lots) - 50' x 110' detached lots with rear alleys located in the center of the development.

SF-D (12 condos) - Detached single family condominiums served by a private drive located in the wooded area in the southeast corner of the development. The 2,500 sf building sites and the private drive will be located to preserve significant vegetation and minimize regrading of the natural topography.

SF-E (15 lots) – 80' x 110' duplex lots located in the southwest portion of the development adjoining Lacy Road that will provide a transition between the higher density multi-family (MF-1) and the lower density single family neighborhood to the east.

MF-1 (up to 156 units) - Multi-family buildings located in the southwest corner of the development with an approximately equal mix of one and two bedroom apartments or assisted living units and a combination of enclosed and surface parking.

### **3.4 Landfill Area Management**

As noted above, the presently inactive Hammersley Construction Co. landfill (Landfill) was licensed as a 5.0 acre site in 1972 for non-combustible waste disposal but also permitted to accept wood matter, trash, and garbage. However, based on Owner and DNR information, the landfill primarily accepted construction demolition material from highway projects and was operated as a private site until it received site closure status in 1980. While the landfill licensed area was 5.0 acres, the actual filling area was much smaller; about 1.5 acres (see Figure 3). Hammersley submitted a closure plan modification request to DNR in May 2014 which called for excavating the fill material within the existing landfill limits, sorting it to remove material that should be disposed of off-site, and placing the balance of the material in a location occupying park and roadway right-of-way areas proposed to be dedicated to the City. This closure plan modification was approved by DNR in August 2014. However, it became apparent that the approved closure plan was incompatible with the City development approvals and criteria for public land dedication.

Following a series of meetings in September 2014, Hamm Fam Land has worked with the City and DNR to develop a project design and landfill closure plan that will be acceptable to all parties. After several rounds of review with the City, the revised closure plan was submitted to DNR on January 14, 2015. At this time, no formal approval has been granted. Key elements of the closure plan activities will include:

1. The existing landfill area shown on Figure 3 will be excavated in phases. The excavated fill material will be sorted, and woody material, municipal waste, ash waste or other waste will be removed from the fill and disposed at suitable off-site facility, leaving only earth fill and clean nonorganic construction debris to be placed in the 1.2 acre area shown as private green space on Figure 4.
2. After the fill is removed, the base of the landfill area will be sampled and sample results reviewed by DNR and the City.
3. The fill placed in the private green space area shown will have an even surface and will have turf vegetation.
4. The private greenspace area will not be transferred to City ownership as part of the Final Plat dedications.
5. Placement of acceptable fill material in the private green space shown on Figure 4 will be monitored for conformance with the closure plan requirements by both City and DNR. A full documentation report of activities will be prepared.
6. DNR will review the closure documentation report. If the work has been conducted according to the approved plan and the test results from the area of existing fill placement are acceptable, DNR will approve the plan and document that the area of fill placement shown on figure 4 is the only extent of landfill on the Quarry Vista property.

The revised closure plan modification submittal (identified as Reference 5 to this plan) includes many additional details regarding the specifics of material sorting procedures, analytical testing procedures, and communication and coordination with the City and DNR.

The revised closure plan modification was submitted to the DNR January 15, 2015. Following the submittal, the project team has continued to meet with and communicate with DNR and City staff in an ongoing review of the closure plan and follow-up documents. This process will result in a closure plan approval that incorporates both DNR and City concerns and direction.

### **3.5 Proposed Transportation Plan**

The proposed development provides for multi-modal transportation. The street system has been designed in a grid pattern to evenly distribute traffic volumes. A series of interconnected greenways with off-street pathways provide for pedestrian and bicycle usage.

### 3.5.1 Automobile

The primary means of transportation will be by private automobile. The development will generate approximately 2,700 trips per day. Because of the proposed grid system traffic will be distributed more evenly over the street network. The primary transportation corridors are Fitchrona Road and Lacy Road.

The street system proposed in the Quarry Vista CDP includes a mix of street types:

- A central E-W street (66' row) that will move from the west at Fitchrona Road and connect with the future North Stoner Prairie Neighborhood (Payne and Dolan Quarry) adjoining the site's eastern boundary. Driveways will be eliminated along this street because lots that border the street will be served by rear alleys.
- Local E-W loop streets (66' row) that parallel the central street on the north and the south.
- Local N-S connecting streets (66' row) that connect the loop streets to the central street and divide the development into 500' blocks.
- One 500' cul-de-sac street (66' row).
- 24' rear alleys serving SF-C lots.
- A 24' private drive serving the condominium cluster.

The Quarry Vista CDP proposes four entrances from the surrounding street system: one on Fitchrona Road, two on Lacy Road and one future entrance at the development's eastern boundary to connect with the future North Stoner Prairie Neighborhood. Street gradients will be less than 5% on average except for the easterly Lacy Road entrance which will be less than 8%.

Proposed street typical-sections are shown in Figure 5. The proposed street system consists of two typical cross sections. The main east-west street will be 36 feet face of curb to face of curb with on-street parking in a 66-foot right of way. The curvilinear nature of the street and on-street parking will provide traffic-calming measures. The remaining of the streets will be 32 feet wide and provide on street parking and two travel lanes within a 66-foot right of way. Public streets will include a minimum nine foot terrace for street trees and lighting. The private alleys will be constructed in outlots and will be designed in accordance with Chapter 27, Division 6.

To accommodate future widening of Fitchrona and Lacy Roads, additional right of way is proposed to be dedicated along the north side of Lacy Road and east side of Fitchrona Road. The right of way width on the north side of Lacy Road will be 40'. The right of way width on the east side of Fitchrona Road will be 50'. The widths of these rights of way are sufficient to accommodate future improvements by the city, including sidewalks, on-street bike lanes, travel lanes and turn lanes at intersections.

Additional right of way may also be dedicated in the northeast quadrant of the Lacy Road/Fitchrona Road intersection to improve the intersection skew angle.

Initially, Lacy Road will be designed to accommodate a 40 mph design speed. Fitchrona Road and Lacy Road improvements will include grading the expanded right of way to accommodate the future street section and construction of a paved multi-purpose path along the east and north limits of the respective rights of way. The location of the paved multi-purpose path will be confirmed with Public Works staff during the platting process. The proposed intersections with Lacy Road and Fitchrona Road will be designed to meet sight distances for a 50 mph design speed.

Entrance features and signage will be provided at all entryways into the development.

### **3.5.2 Pedestrian and Bicycle**

The proposed street system will provide a pedestrian and bicycle network that will connect all parts of the Quarry Vista neighborhood. This pedestrian/bike network will also connect to future ped/bike facilities on Lacy Road and Fitchrona Road and provide connections to destinations in the surrounding neighborhood and the community. A future bicycle route planned for Fitchrona Road will connect to the Military Ridge State Trail which has an entrance 300' north of the subject site. The Military Ridge State Trail links to other local and regional trails to connect the subject site to area-wide and regional destinations. The proposed pedestrian and trail system is consistent with the apparent transit objectives of the Parks & Conservancy areas shown on the 2013 land-use plan.

### **3.5.3 Transit**

Currently, the area is not served by a transit system. As the surrounding area develops, transit service may become available along Lacy Road and/or Fitchrona Road

## **3.6 Proposed Park System**

Quarry Vista proposes a variety of parks and open spaces to serve the recreation needs of the neighborhood residents.

- A 1.6 Ac central park that will include playground and a multi-purpose open space. This south facing park will incorporate a remnant of the existing quarry wall as a defining landscape feature.
- A 3+ Ac south-facing park located in the northeast corner of the development. This park, which will also incorporate an existing quarry wall as a defining landscape feature, will include a soccer field, a ball diamond, play equipment and a sledding hill.
- The wooded area preserved on the north side of the development with a hiking/walking trail that connects to the neighborhood's street system and the Quarry Ridge Recreation Area.

- Wooded and open space buffers located on the east and south sides of the development.

The proposed Quarry Vista CDP includes approximately 21.4 Ac of parks and open spaces, about thirty percent of the total site area. Approximately 18.1 Ac of this total will be dedicated to meet the city's park dedication requirements.

Note that the private open space area identified on Figure 4 will not be part of public park dedication.

### **3.7 Proposed Utility Service**

The proposed layout of sanitary and water services are shown in Figure 6. The layout of utilities will be finalized with input from Public Works staff during the platting process.

The sanitary sewer system serving the development will connect to an 8-inch sanitary sewer stubbed into the property from Fitchrona Road. Within the development, 8-inch sanitary sewer mains will be installed within the street rights of way or public utility easements. An 8-inch sanitary sewer, at minimum grade, has a capacity of 0.77 cfs. The proposed development of 322 dwelling units will generate a peak flow of 0.38 cfs using 150 gpd for multi-family units, 225 gpd for single family residential units and a peak factor of 4.

Water service for the development will be provided from a 12-inch water main extended from Nesbitt Road. The water main will be brought by the City to the Quarry Vista Drive – Fitchrona Road intersection. Provisions for water service to lands east and south of the Quarry Vista site will be made by extending the 12-inch water main in plat outlots adjacent to Lacy Road and Fitchrona Road. Internally, the development will be served by a series of 8-inch water mains. The city's ultimate water distribution system plans indicate that this main will eventually be extended easterly to the future extension of Commercial Drive and connect north to provide a looped system back to Water Tower E located northeast of the Payne & Dolan Quarry.

### **3.8 Stormwater Management**

The stormwater management system for the site will be designed to meet the following objectives:

1. Provide compliance with the City's storm water management criteria, including limiting the increase of post-development peak discharge rate to predevelopment rate for the 1, 2-year, 10-year and 100-year storms, to provide 80% reduction in suspended solids release compared to no controls, and to infiltrate sufficient runoff volume so that the post-development retention of runoff is at least 90% of the predevelopment volume;
2. Provide compliance with State of Wisconsin stormwater management criteria described in Administrative Code sections NR 216 and NR 151. Providing compliance with the City's criteria will (with minor exceptions that will be addressed) provide compliance with state of

Wisconsin criteria;

3. Address site-specific criteria that are currently being refined with City of Fitchburg staff. These criteria are oriented toward providing a drainage system compatible with adjacent uses along Lacy Road and Fitchrona Road, and to providing minimal impact to Goose Lake. The majority of the site will drain to the Quarry Ridge Wet Pond, to utilize the detention routing storage available and also to maximize the opportunity for water quality treatment and seepage of water in the basin to the regional groundwater system. The development plan will emphasize local (near-source) management of water quality and volume.
4. Integrate the storm water management design with local “pocket parks” and larger open space areas to provide an attractive aesthetic consistent with the design of the residential area.

A schematic plan of the anticipated stormwater management system is shown on Figure 7. The majority of the site will drain via storm sewer and graded pathways toward the Quarry Ridge Wet Pond. The apartment lot in the southwest corner of the plat will address stormwater requirements with its own on-site system.

Within the development area, stormwater management will be integrated into the site design at three scales: a local streetscape scale where we anticipate placement of bioretention and possibly street terrace infiltration areas within the public right-of-way, somewhat larger systems to be incorporated within pocket parks to provide block-by-block storm water runoff volume reduction, and larger systems that will receive runoff from multiple block areas to be located in public open space. The streetscape and block-by-block stormwater features are anticipated to be vegetated. Design of the systems will be driven by stormwater management criteria as well as the aesthetic and use functions of the open spaces in which they are placed. This design approach is intended to make use of the results of the recently completed Catalytic Project report prepared by EOR for the City of Fitchburg using the McGaw Park area as an example.

Drainage features will also be incorporated into the connected open space plan for the project. The drainage conveyance swale to be constructed within the Quarry Ridge recreation area will be designed to meet Park aesthetic and functional objectives. Drainage on the perimeter of the project, along Lacy Road and Fitchrona Road will be improved as part of the right-of-way improvements that will be required for this project.

Example descriptions of design approaches, plant species sets, and performance trade-offs for storm water management practices anticipated to be used in the project are included in Appendix A.

### **3.9 Compatibility with Surrounding Land Uses**

The residential uses and densities, street patterns and parks and open spaces proposed for the Quarry Vista CDP are compatible with surrounding land uses, both existing and future. These uses include single family residential uses bordering the east side of the development, the Quarry Ridge Recreation

Area bordering the north side of the development, commercial and industrial uses proposed as part of the future North Stoner Prairie Neighborhood on the east side of the development, and low density residential uses recommended in the *City of Fitchburg Comprehensive Plan* for the area south of Lacy Road.

### 3.10 Consistency with Adopted Plans

The proposed Quarry Vista CDP is consistent with the *City of Fitchburg Comprehensive Plan* which designates the subject site as Low Density Residential with 2 – 5 dwelling units per acre. The CDP is also consistent with City of Fitchburg’s *Comprehensive Park, Open Space, and Recreation Plan*. Open space corridors are provided around all sides of the proposed development except for approximately 350’ along the west side of the cul de sac that adjoins the existing single family lots along Fitchrona Road. A vegetation buffer will be provided to separate the existing and proposed lots.

The proposed development plan, including pedestrian and bicycle transit features, connected open space and preservation of wooded slopes is consistent with the objectives of the Parks & Conservancy areas shown on the 2013 Land-Use Plan. The development plan also is consistent with the objective of the steep slope designations in that the steeply sloped wooded hillsides will generally not be developed and will not be regraded.

### 3.11 Proposed Land Use Data

Figure 8 shows the proposed land uses.

#### Total Site Acreage 72.4 Acres

<u>Proposed land use area and units</u>	<u>Ac</u>	<u>units</u>
Low Density Single Family Residential	26.1	124
Low Density Condominiums	2.9	12
Duplex	3.3	30
High Density Apartments	<u>3.7</u>	<u>156</u>
Total Units	36.0	322

#### Projected Ownership

Total Ownership	166	52%
Total Rental	156	48%

#### Density

Net Density/Acre	8.9 DU/Ac
Gross Density/Acre	4.5 DU/Ac

#### Area by land use

Total Residential Development Acreage	36.0 Ac (49.7% of total site)
---------------------------------------	-------------------------------

Total Open Space 21.4 Ac (29.6% of total site)

Proposed Parks	18.1 Ac
Private Stormwater Management Areas	2.1 Ac
Private Greenspace	1.2 Ac

Total Public Streets 15.0 Ac (20.7% of total site)

Dedications

Public Street Dedication	15.0 Ac	
Park Dedication	18.1 Ac	(21.4 Ac Required)

### 3.12 Development Schedule

Quarry Vista is anticipated to be developed over a 4-year time frame in two phases as shown in Figures 9.1 and 9.2. The suggested development phases are:

- Phase One — 2015-2016
- Phase Two — 2017-2019

This timing may change due to market conditions, availability of infrastructure or other reasons.

### 3.13 Proposed Zoning

Figure 10 shows the proposed final zoning for Quarry Vista. The zoning will be phased per the development schedule. The single family areas of Phase One has been rezoned to R-LM, the PD areas have been rezoned to PDD-SIP while the multi-family lot has been rezoned to PDD-GIP. During Phase One, the area within Phase Two will not be rezoned. During Phase Two development, the remaining single family lots will be rezoned to the proposed final zoning and the Single Family Condo lot will be rezoned to A-S. The single family condo lot will be rezoned when they are developed.

#### 4 Estimated Assessed Value

Development Type	Estimated Assessed Value
16 SF Homes @ \$300,000 ("A" lots)	\$4,800,000
56 SF Homes @ \$300,000 ("B" lots)	\$16,800,000
52 SF Homes @ \$250,000 ("C" lots)	\$13,000,000
15 Duplex Units @ \$500,000 ("E" lots)	\$7,500,000
156 Apartments @ \$70,000	\$10,920,000
12 Condominium Homes @ \$275,000	\$3,300,000
	<hr/>
Total Estimated Assessed Value	<u>\$56,320,000</u>

---

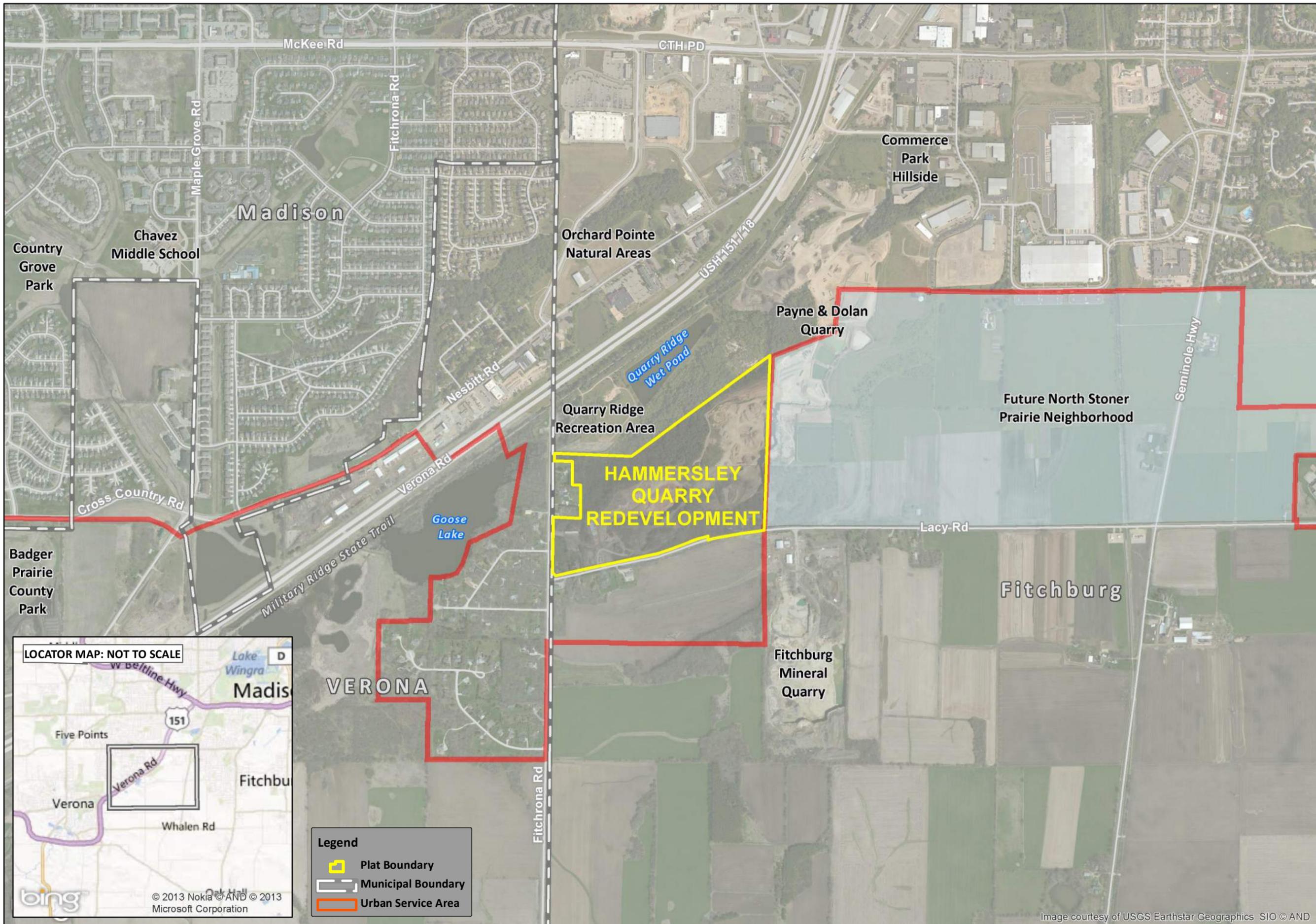
## 5 References

1. *City of Fitchburg Comprehensive Plan*, Chapter Four: Land Use. adopted March 2009, rev. Dec 2013
2. *Comprehensive Park, Open Space, and Recreation Plan*, City of Fitchburg. January 2010
3. *Dane County Parks & Open Space Plan*, Chapter IX.6 Trails. March 2012
4. *North Stoner Prairie Neighborhood Plan*. November 2013
5. *Revised Plan Modification for Hammersley Construction Co. landfill*, submitted to the Wisconsin DNR by Hammersley Stone Company, Inc. on January 14, 2015



## Figures

<b>Figure 1</b>	<b>Project Context</b>
<b>Figure 2</b>	<b>Existing Conditions</b>
<b>Figure 3</b>	<b>Environmental Designations</b>
<b>Figure 4</b>	<b>Project Plan and Conceptual Layout</b>
<b>Figure 5</b>	<b>Street Typical Sections</b>
<b>Figure 6</b>	<b>Utility Plan</b>
<b>Figure 7</b>	<b>Stormwater System Schematic Layout</b>
<b>Figure 8</b>	<b>Land Use Plan</b>
<b>Figure 9</b>	<b>Phasing Plan</b>
<b>Figure 10</b>	<b>Zoning Plan</b>



**Legend**

- Plat Boundary
- Municipal Boundary
- Urban Service Area

DRAWN BY: ACF  
 CHECKED BY: RDP

Rev 1 - 1/7/14

**MONTGOMERY ASSOCIATES:**  
**RESOURCE SOLUTIONS, LLC**  
 119 South Main Street | Cottage Grove, WI 53527  
 (608) 839-4422 | www.ma-rs.org



**PROJECT CONTEXT**  
 Hammersley Quarry Redevelopment  
 Hamm Fam Land LLC



0 500 1,000  
 Feet

SCALE  
 1 inch = 1,000 feet

PROJECT NO. 1613  
 DATE 12/17/2013

**FIGURE**  
**1**

Image courtesy of USGS Earthstar Geographics SIO © AND

**Owner:** Hamm Fam Land, LLC  
 c/o Mr. Phil Sveum  
 Coldwell Banker Success  
 5500 East Cheryl Parkway  
 Fitchburg, WI 53711  
 608-288-3339  
 psveum@cbsuccess.com

**Engineer:** Montgomery Associates, Resource Solutions, LLC  
 Project Manager-Deborah Hatfield, P.E.  
 119 South Main Street  
 Cottage Grove, WI 53527  
 608-839-4422  
 debbie@ma-rs.org

**Planner:** Tim Anderson Consulting, LLC  
 Tim Anderson  
 2126 Yahara Place  
 Madison, WI 53704-5658  
 608-514-5402  
 tander2126@tds.net

**Surveyor:** Burse Surveying and Engineering, Inc.  
 President-Michelle L. Burse P.E., R.L.S.  
 Madison, WI 53703  
 608-250-9263  
 mburse@bse-inc.net

**NOTES:**  
 1. CONTOURS AND AERIAL PHOTO ARE FROM 2010 AND DO NOT REFLECT CURRENT CONDITIONS.  
 2. ALL OF LOTS 1-3, CERTIFIED SURVEY MAP NUMBER 11159, AS RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS, ON PAGES 152-154, AS DOCUMENT NUMBER 3959694, DANE COUNTY REGISTRY, ALSO PART OF THE NORTHEAST, SOUTHEAST AND SOUTHWEST QUARTERS OF THE SOUTHWEST QUARTER OF SECTION 07, ALSO PART OF THE NORTHWEST AND NORTHEAST QUARTERS OF THE NORTHWEST QUARTER OF SECTION 18, ALL IN TOWNSHIP 06 NORTH, RANGE 09 EAST, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

**LEGEND**  
 1000 ——— EXISTING CONTOURS (5-FOOT INTERVAL)  
 ——— PLAT BOUNDARY  
 ——— EXISTING PARCELS  
 ■■■■■ LANDFILL BOUNDARY



DATE	REVISION / ISSUE	NO.
1/7/14	CDP REVISION	1
2/17/15	CDP RESUBMITTAL	2

**MONTGOMERY ASSOCIATES:**  
 RESOURCE SOLUTIONS, LLC  
 119 SOUTH MAIN STREET  
 SUITE A  
 COTTAGE GROVE, WI 53527  
 WWW.MRS-ES.COM

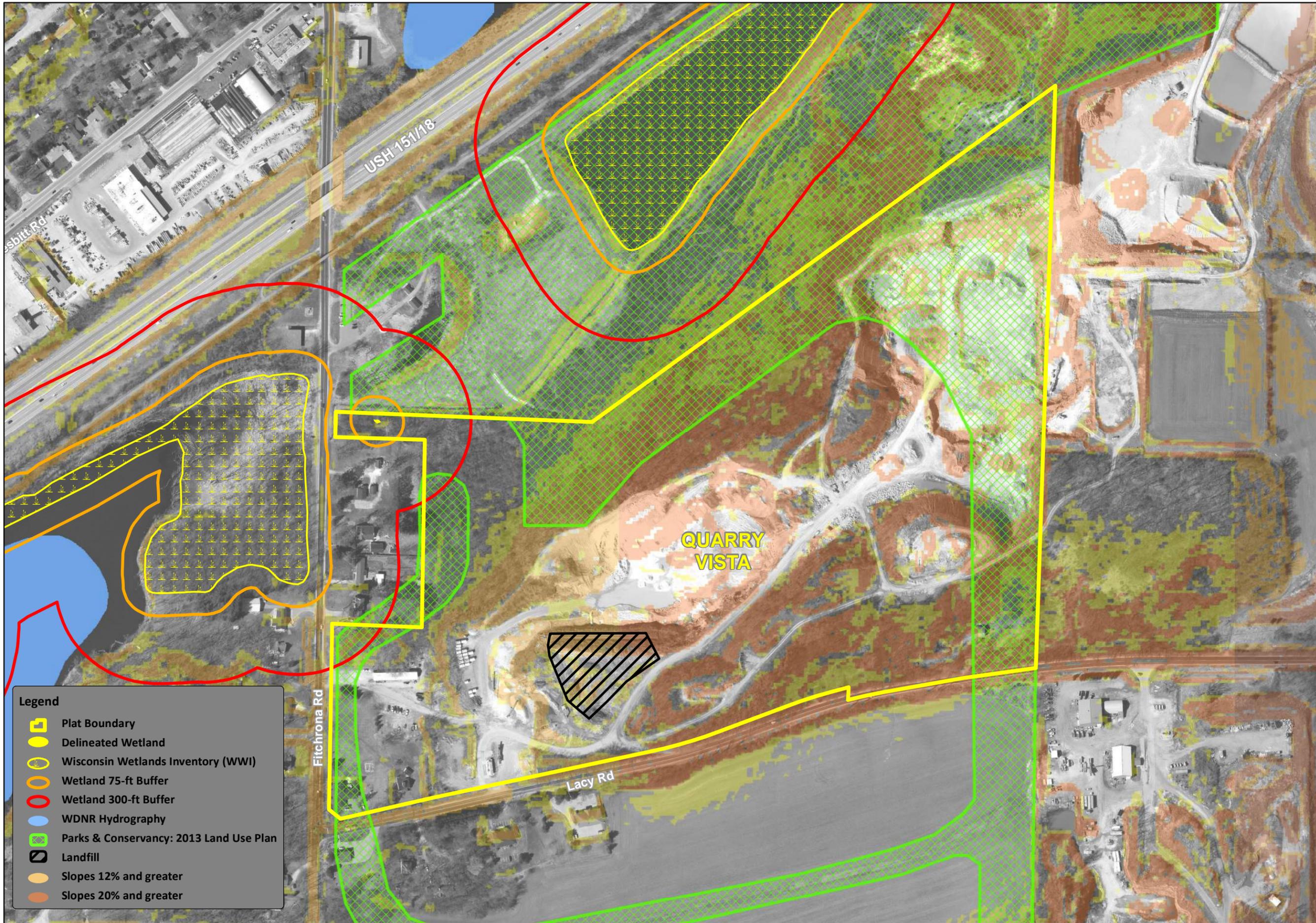
**EXISTING CONDITIONS**  
 QUARRY VISTA  
 HAMMERSLEY QUARRY  
 FITCHBURG, WI  
 HAMM FAM LAND LLC

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SCALE  
**1"=120'**

PROJECT NO. **1613**      DATE **12/7/2013**

FIGURE NO.  
**2**



- Legend**
- Plat Boundary
  - Delineated Wetland
  - Wisconsin Wetlands Inventory (WWI)
  - Wetland 75-ft Buffer
  - Wetland 300-ft Buffer
  - WDNR Hydrography
  - Parks & Conservancy: 2013 Land Use Plan
  - Landfill
  - Slopes 12% and greater
  - Slopes 20% and greater

DRAWN BY ACF	CHECKED BY RDP
-----------------	-------------------

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**RESOURCE SOLUTIONS, LLC**  
 119 South Main Street | Cottage Grove, WI 53527  
 (608) 839-4422 | www.ma-rs.org

**ENVIRONMENTAL DESIGNATIONS**

Quarry Vista  
 Hamm Fam Land LLC



0 100 200 300  
 Feet

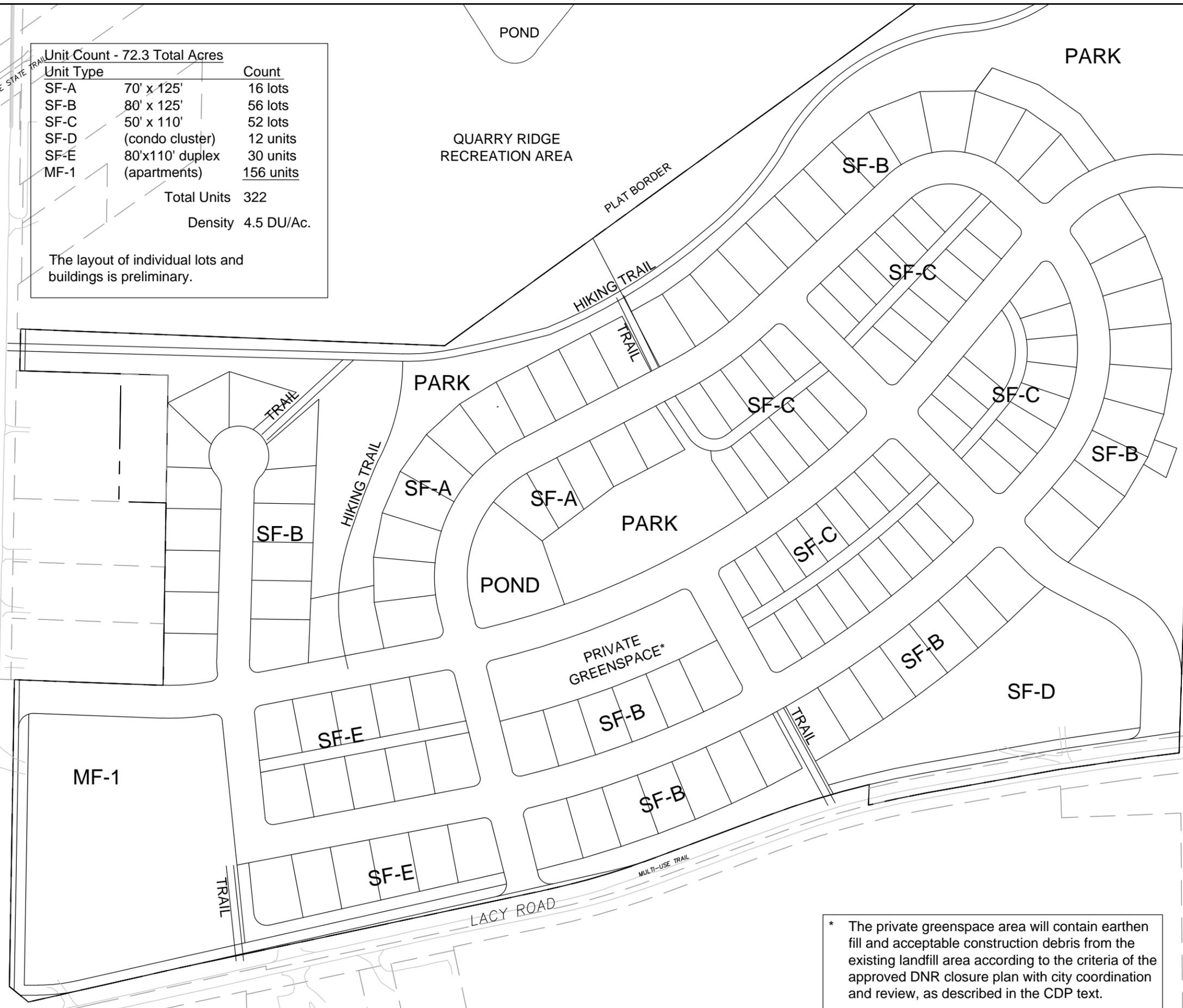
SCALE  
 1 inch = 300 feet

PROJECT NO. 1613	DATE 2/17/2015
---------------------	-------------------

FIGURE  
**3**

Unit Count - 72.3 Total Acres		
Unit Type		Count
SF-A	70' x 125'	16 lots
SF-B	80' x 125'	56 lots
SF-C	50' x 110'	52 lots
SF-D	(condo cluster)	12 units
SF-E	80'x110' duplex	30 units
MF-1	(apartments)	156 units
Total Units		322
Density		4.5 DU/Ac.

The layout of individual lots and buildings is preliminary.



\* The private greenspace area will contain earthen fill and acceptable construction debris from the existing landfill area according to the criteria of the approved DNR closure plan with city coordination and review, as described in the CDP text.



DATE	REVISION / ISSUE	NO.	NO.
1/17/14	1 CDP Revisions	1	
2/17/15	1 CDP Resubmittal	1	

DRAWN BY: RDP  
CHECKED BY: DJH

MONTGOMERY ASSOCIATES:  
RESOURCE SOLUTIONS, LLC  
119 SOUTH MAIN STREET  
SUITE A  
COTTAGE GROVE, WI 53527  
www.mta-rs.org

**PROJECT PLAN**

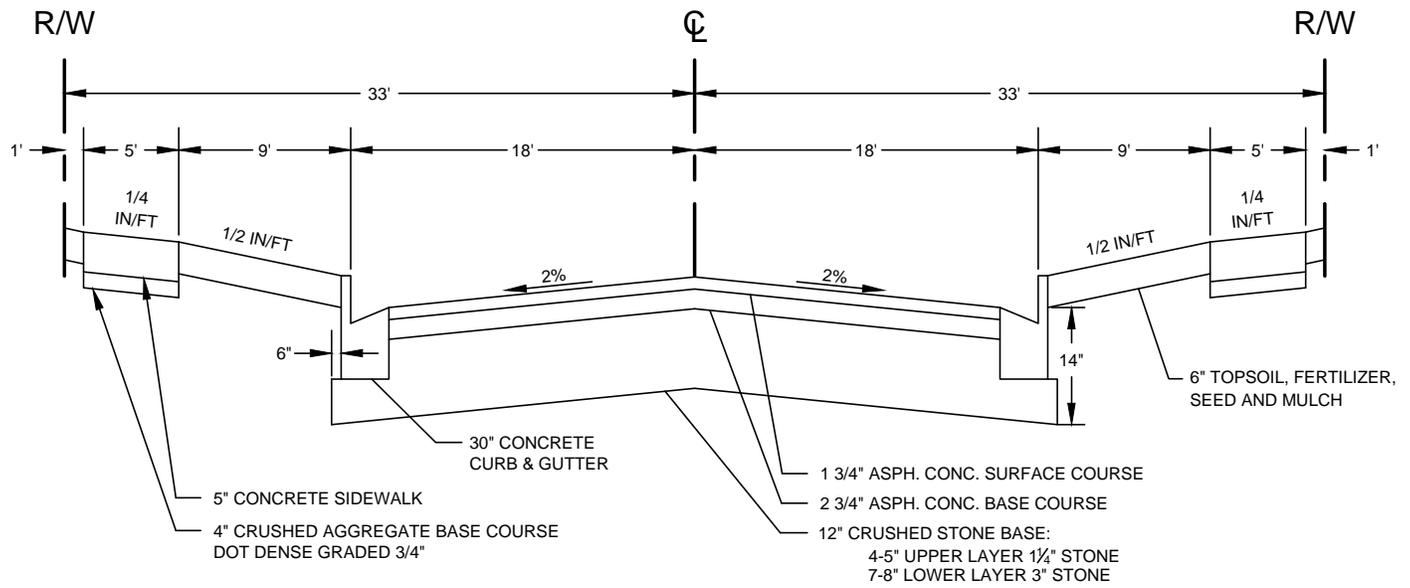
QUARRY VISTA  
HAMMERSLEY QUARRY  
FITCHBURG, WI  
HAMM FARM LAND LLC

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

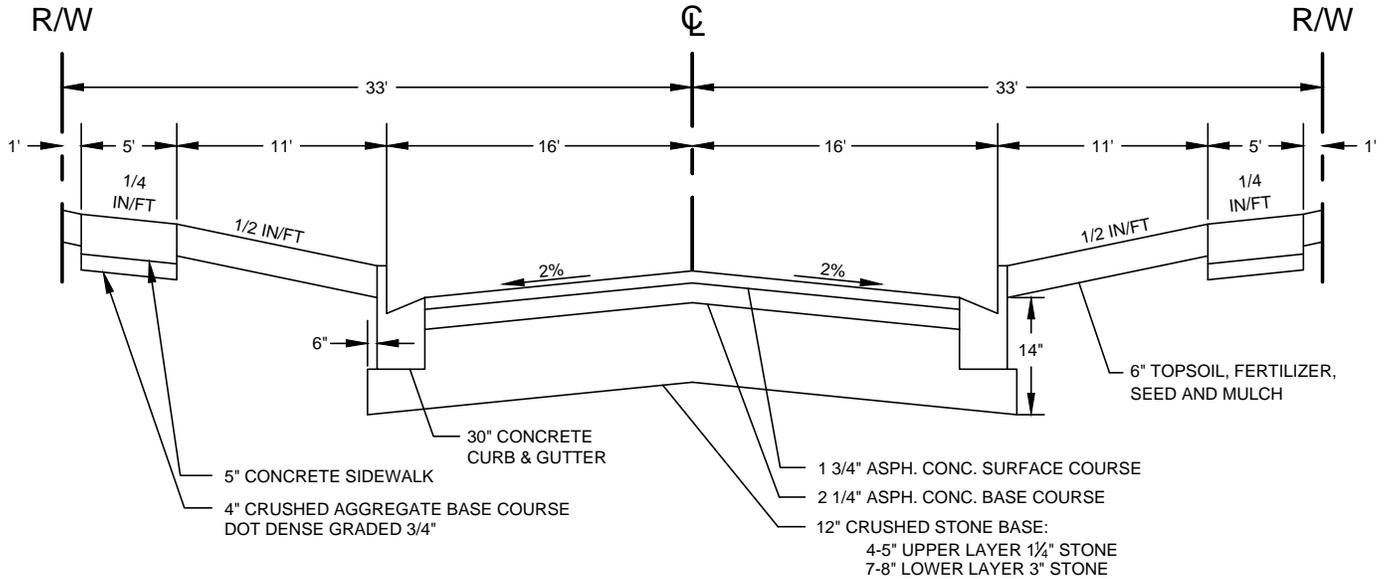
SCALE  
1"=200'

PROJECT NO. 1613      DATE 12/17/2013

FIGURE NO.  
**4**



66' RIGHT-OF-WAY  
36' STREET WIDTH



66' RIGHT-OF-WAY  
32' STREET WIDTH

**FIGURE 5**  
STREET TYPICAL SECTIONS

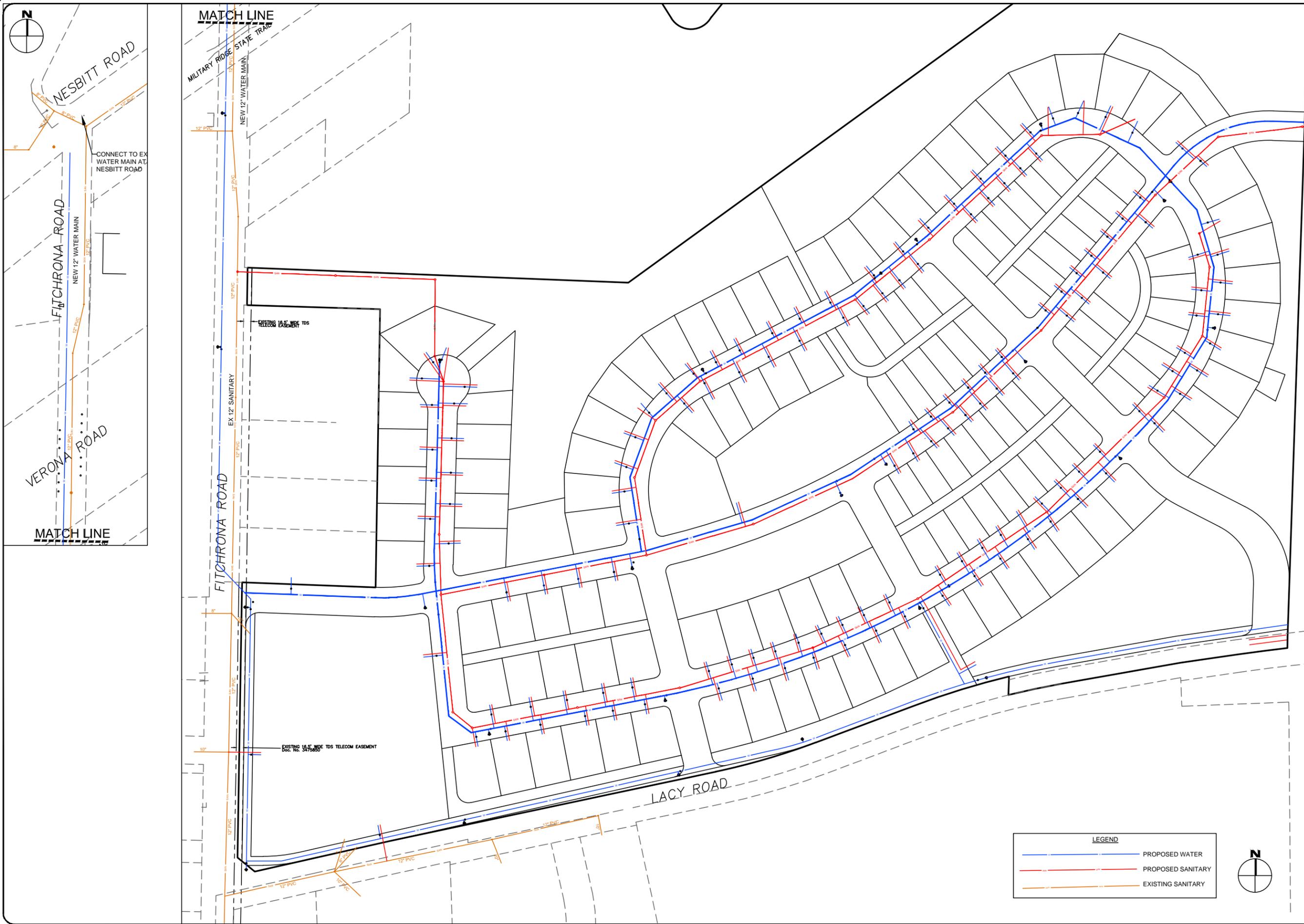
QUARRY VISTA  
HAMM FAM LAND, LLC

Revisions:  
1 CDP Revisions 1/7/14

DATE Dec 17, 2013	PROJECT NO. 1613
SCALE 1"=10'	
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	



MONTGOMERY ASSOCIATES:  
RESOURCE SOLUTIONS, LLC  
119 SOUTH MAIN ST  
COTTAGE GROVE, WI 53527  
[www.ma-rs.org](http://www.ma-rs.org)



MATCH LINE

MILITARY RIDGE STATE TRAIL  
NEW 12" WATER MAIN

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
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EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

EXISTING 16.4' WIDE TDS TELECOM EASEMENT  
Doc. No. SA70600

CONNECT TO EX  
WATER MAIN AT  
NESBITT ROAD

FITCHRONA ROAD

VERONA ROAD

MATCH LINE

FITCHRONA ROAD

LACY ROAD

LEGEND	
	PROPOSED WATER
	PROPOSED SANITARY
	EXISTING SANITARY



NO.	REVISION / ISSUE	DATE	DRAWN BY	CHECKED BY
1	CDP Revisions	1/17/14	RDP	DJH
2	CDP Resubmittal	2/17/15		
3	Utility Change on QVD	3/5/15		

MONTGOMERY ASSOCIATES,  
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COTTAGE GROVE, WI 53627  
WWW.MA-RS.COM



UTILITY LAYOUT  
QUARRY VISTA  
HAMMERSLEY QUARRY  
FITCHBURG, WI  
HAMM FARM LAND LLC

IF THIS BAR DOES NOT MEASURE 1"  
THEN DRAWING IS NOT TO SCALE

SCALE  
1"=200'

PROJECT NO. 1613 DATE 12/17/2013

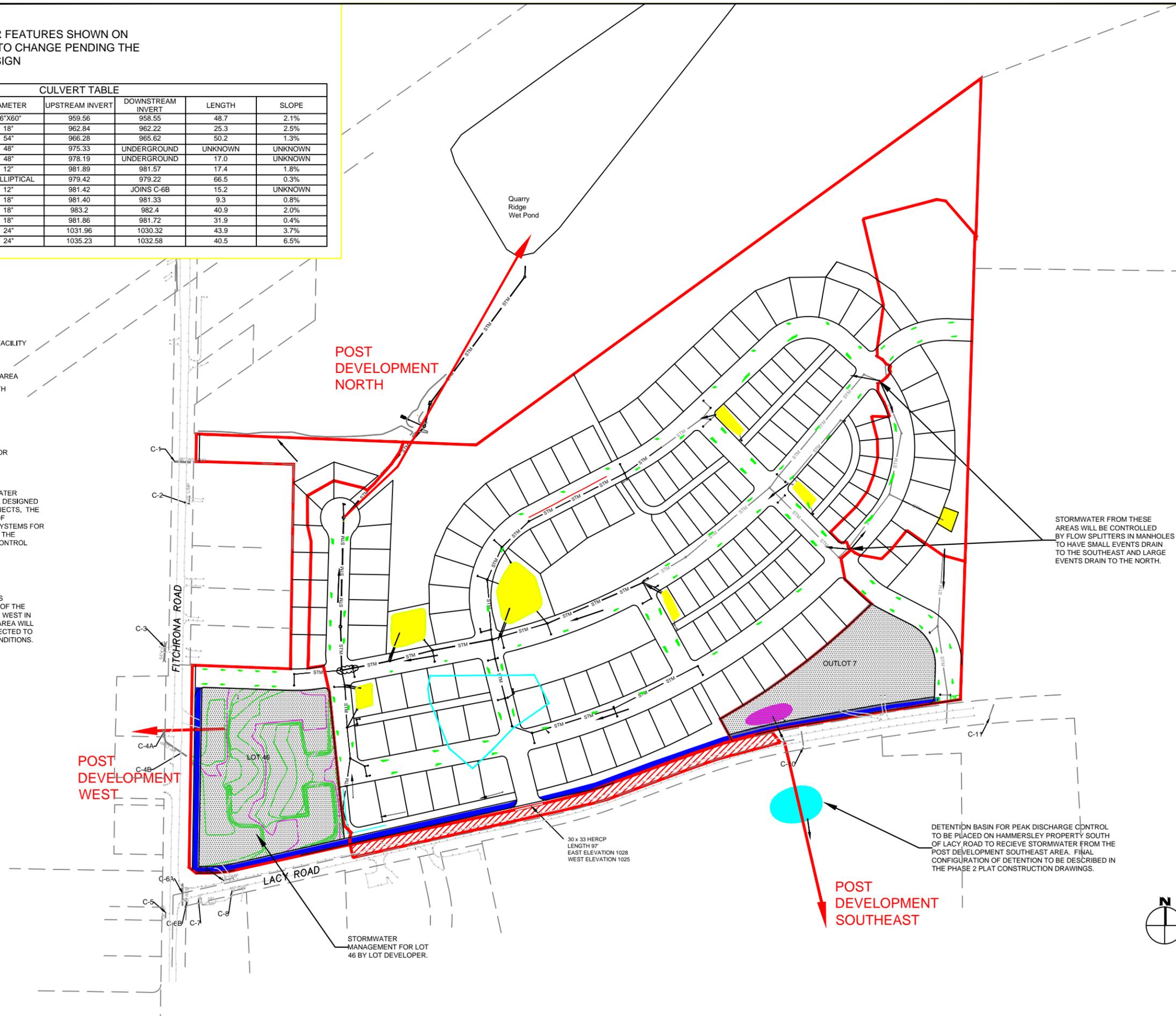
FIGURE NO.  
6

NOTES:  
 1. POTENTIAL STORMWATER FEATURES SHOWN ON THIS MAP ARE SUBJECT TO CHANGE PENDING THE FINAL STORMWATER DESIGN

CULVERT TABLE						
CULVERT ID	TYPE	DIAMETER	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH	SLOPE
C-1	CMP	36"x60"	959.56	958.55	48.7	2.1%
C-2	CMP	18"	962.84	962.22	25.3	2.5%
C-3	CMP	54"	966.28	965.62	50.2	1.3%
C-4A	CMP	48"	975.33	UNDERGROUND	UNKNOWN	UNKNOWN
C-4B	CMP	48"	978.19	UNDERGROUND	17.0	UNKNOWN
C-5	CMP	12"	981.89	981.57	17.4	1.8%
C-6A	RCP	40" ELLIPTICAL	979.42	979.22	66.5	0.3%
C-6B	RCP	12"	981.42	JOINS C-6B	15.2	UNKNOWN
C-7	CMP	18"	981.40	981.33	9.3	0.8%
C-8	CMP	18"	983.2	982.4	40.9	2.0%
C-9	CMP	18"	981.86	981.72	31.9	0.4%
C-10	CMP	24"	1031.96	1030.32	43.9	3.7%
C-11	CMP	24"	1035.23	1032.58	40.5	6.5%

- LEGEND**
- PRIVATE OUTLOT INFILTRATION FACILITY
  - STREET TERRACE INFILTRATION AREA
  - PERMEABLE PAVEMENT BIKE PATH
  - DETENTION BASIN
  - APPROXIMATE AREA NEEDED FOR STORMWATER MANAGEMENT
  - AREAS IN WHICH THE STORMWATER MANAGEMENT SYSTEM WILL BE DESIGNED BY OTHERS AS SEPARATE PROJECTS. THE ANTICIPATED PERFORMANCE OF STORMWATER MANAGEMENT SYSTEMS FOR THESE AREAS IS DESCRIBED IN THE STORMWATER AND EROSION CONTROL REPORT.

NOTES:  
 1.) HATCHED AREA ON SOUTH REPRESENTS PORTION OF LACY ROAD ROW OUTSIDE OF THE PLAT BOUNDARY THAT DRAINED TO THE WEST IN PREDEVELOPMENT CONDITIONS. THIS AREA WILL BE DRAINED BY STORMSEWER AND DIRECTED TO THE NORTH IN POST DEVELOPMENT CONDITIONS.



STORMWATER FROM THESE AREAS WILL BE CONTROLLED BY FLOW SPLITTERS IN MANHOLES TO HAVE SMALL EVENTS DRAIN TO THE SOUTHEAST AND LARGE EVENTS DRAIN TO THE NORTH.

DETENTION BASIN FOR PEAK DISCHARGE CONTROL TO BE PLACED ON HAMMERSLEY PROPERTY SOUTH OF LACY ROAD TO RECEIVE STORMWATER FROM THE POST DEVELOPMENT SOUTHEAST AREA. FINAL CONFIGURATION OF DETENTION TO BE DESCRIBED IN THE PHASE 2 PLAT CONSTRUCTION DRAWINGS.

STORMWATER MANAGEMENT FOR LOT 46 BY LOT DEVELOPER.

30 x 33 HERCP  
 LENGTH 97  
 EAST ELEVATION 1028  
 WEST ELEVATION 1025

DATE	REVISION / ISSUE	NO.	NO.
2/17/15	CDP Resubmittal	1	1
3/5/15	Storm Align	2	2

DRAWN BY: LMS  
 CHECKED BY: DJH

MONTGOMERY ASSOCIATES:  
 RESOURCE SOLUTIONS, LLC  
 119 SOUTH MAIN STREET  
 SUITE A  
 COTTAGE GROVE, WI 53627  
 WWW.MRSL.COM

STORMWATER SYSTEM  
 SCHEMATIC LAYOUT  
 QUARRY VISTA  
 FITCHBURG, WI  
 HAMM FARM LAND, LLC

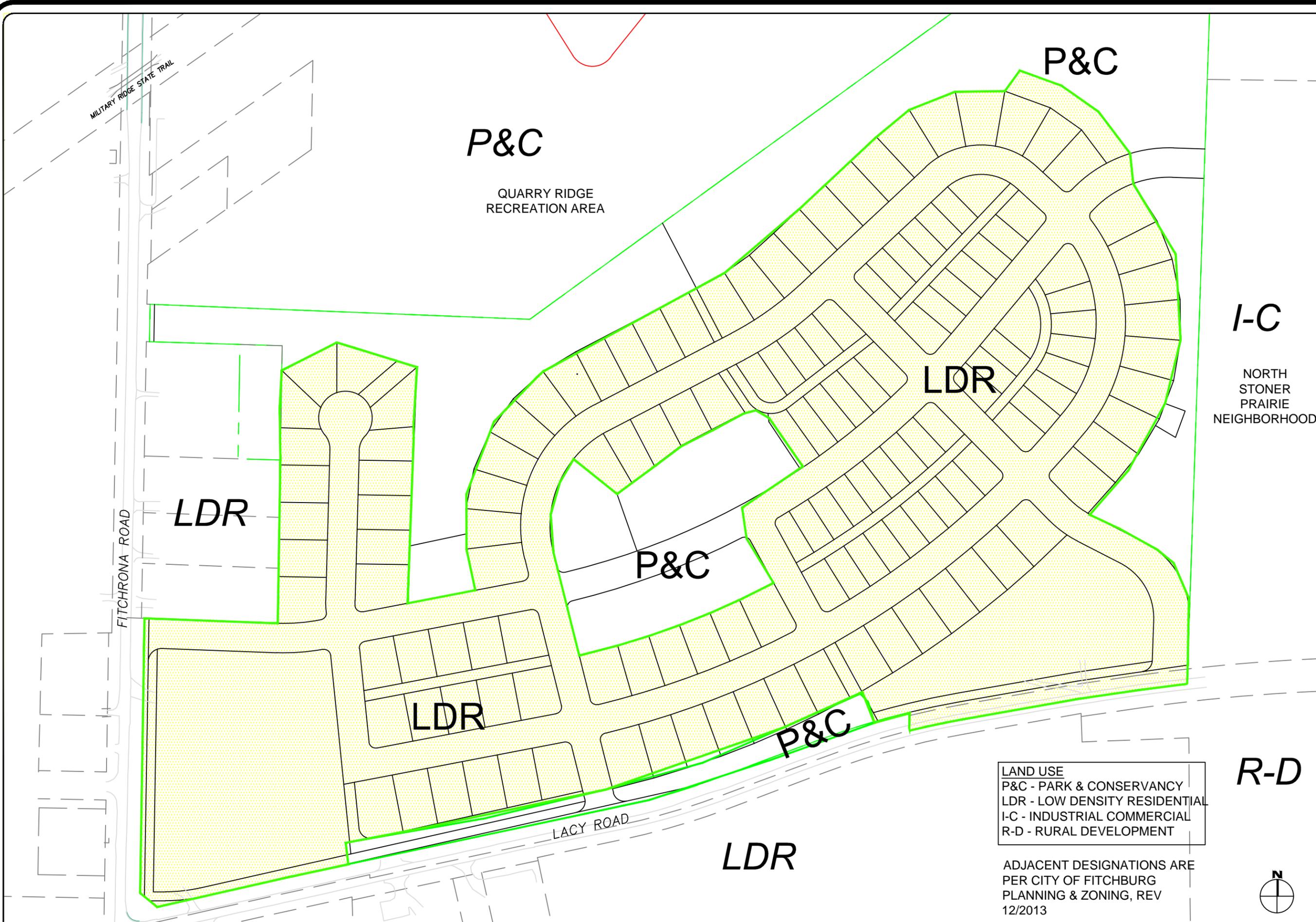
0 200' 400'

SCALE  
 1"=300'

PROJECT NO. 1613 DATE 02/17/15

FIGURE NO.  
 7

P:\1613 - Hamm Farm Land Property Development\Drawings\CDP Feb 2015\Figure 7.dwg 3/5/2015 8:43:06 AM



P&C

QUARRY RIDGE RECREATION AREA

P&C

I-C

NORTH STONER PRAIRIE NEIGHBORHOOD

LDR

LDR

P&C

LDR

P&C

R-D

LDR

**LAND USE**  
 P&C - PARK & CONSERVANCY  
 LDR - LOW DENSITY RESIDENTIAL  
 I-C - INDUSTRIAL COMMERCIAL  
 R-D - RURAL DEVELOPMENT

ADJACENT DESIGNATIONS ARE PER CITY OF FITCHBURG PLANNING & ZONING, REV 12/2013



DATE	2/17/15	DRAWN BY	RDP	CHECKED BY	DJH
REVISION / ISSUE	1 CDP Resubmittal				
NO.	1				
MONTGOMERY ASSOCIATES: RESOURCE SOLUTIONS, LLC 119 SOUTH MAIN STREET SUITE A COTTAGE GROVE, WI 53527 WWW.MTA-AS.COM					
<b>LAND USE</b> QUARRY VISTA HAMMERSLEY QUARRY FITCHBURG, WI HAMM FAM LAND LLC					
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE 					
SCALE 1"=200'					
PROJECT NO.	1613	DATE	12/17/2013		
FIGURE NO. <b>8</b>					

**STAGING SCHEDULE**

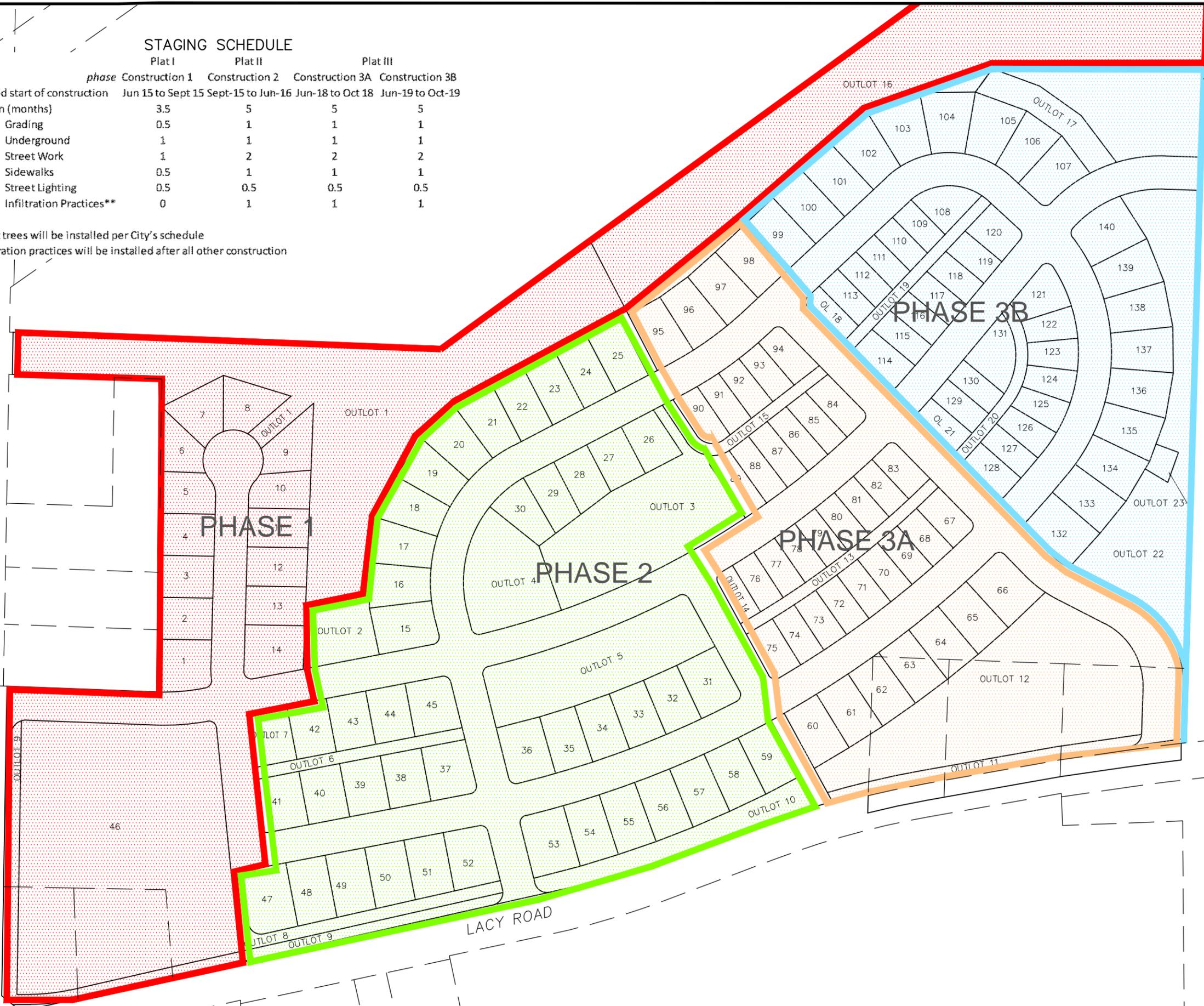
	Plat I	Plat II	Plat III	
phase	Construction 1	Construction 2	Construction 3A	Construction 3B
Expected start of construction	Jun 15 to Sept 15	Sept-15 to Jun-16	Jun-18 to Oct 18	Jun-19 to Oct-19
Duration (months)	3.5	5	5	5
Grading	0.5	1	1	1
Underground	1	1	1	1
Street Work	1	2	2	2
Sidewalks	0.5	1	1	1
Street Lighting	0.5	0.5	0.5	0.5
Infiltration Practices**	0	1	1	1

\* Street trees will be installed per City's schedule

\*\*Infiltration practices will be installed after all other construction

FITCHRONA ROAD

LACY ROAD



DRAWN BY	RDP	CHECKED BY	DJH
DATE	2/17/15		
REVISION / ISSUE	1 CDP Resubmittal		
NO.	1		

MONTGOMERY ASSOCIATES:  
 RESOURCE SOLUTIONS, LLC  
 119 SOUTH MAIN STREET  
 SUITE A  
 COTTAGE GROVE, WI 53527  
 WWW.MRSOL.COM



**PHASING PLAN**  
 QUARRY VISTA PLAT  
 FITCHBURG, WI  
 HAMM FARM LAND LLC

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



SCALE  
 1"=200'

PROJECT NO. 1613 DATE 4/8/2014

FIGURE NO.  
 9

MILITARY RIDGE STATE TRAIL

PD 27 acres  
R-LM 22 acres  
P-R 23 acres

QUARRY RIDGE RECREATION AREA

NORTH STONER PRAIRIE NEIGHBORHOOD

MONTGOMERY ASSOCIATES:  
RESOURCE SOLUTIONS, LLC  
119 SOUTH MAIN STREET  
SUITE A  
COTTAGE GROVE, WI 53527  
WWW.MA-RS.COM



ZONING PLAN  
QUARRY VISTA  
HAMMERSLEY QUARRY  
FITCHBURG, WI  
HAMM FARM LAND LLC

IF THIS BAR DOES NOT MEASURE 1"  
THEN DRAWING IS NOT TO SCALE  
0 100 200

SCALE  
1"=200'  
PROJECT NO. 1613 DATE 12/17/2013

FIGURE NO.  
10

NO.	1	CDP Revisions
REVISION / ISSUE		
DATE	1/9/14	
DRAWN BY	RDP	CHECKED BY DJH



# Appendix A

## Projected Stormwater Management Features

The following are photos and illustrations depicting various best management practices (BMPs) for infiltrating stormwater runoff. BMPs shown include rain gardens, tree trenches, and bio-retention devices.

- Example of bioretention area. Excerpted from City of Fitchburg’s Catalytic Project prepared by EOR.





- Examples of rain gardens in residential settings:



[cityofmadison.com](http://cityofmadison.com)



[ecologiadesign.com](http://ecologiadesign.com)

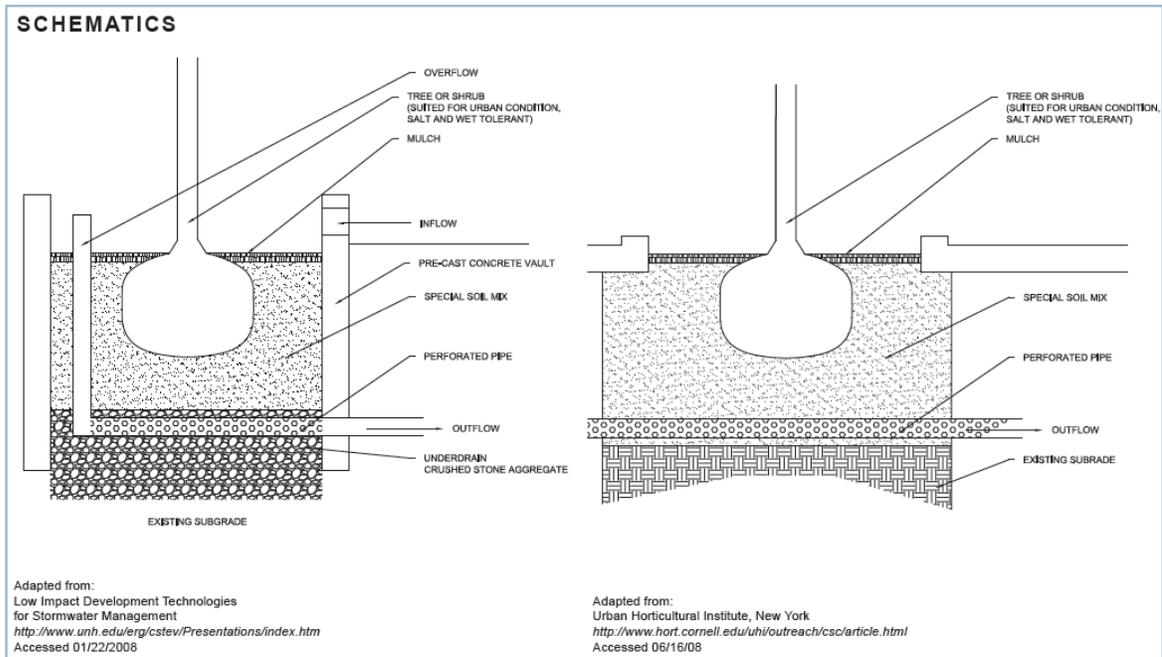




- Example of tree trench system:



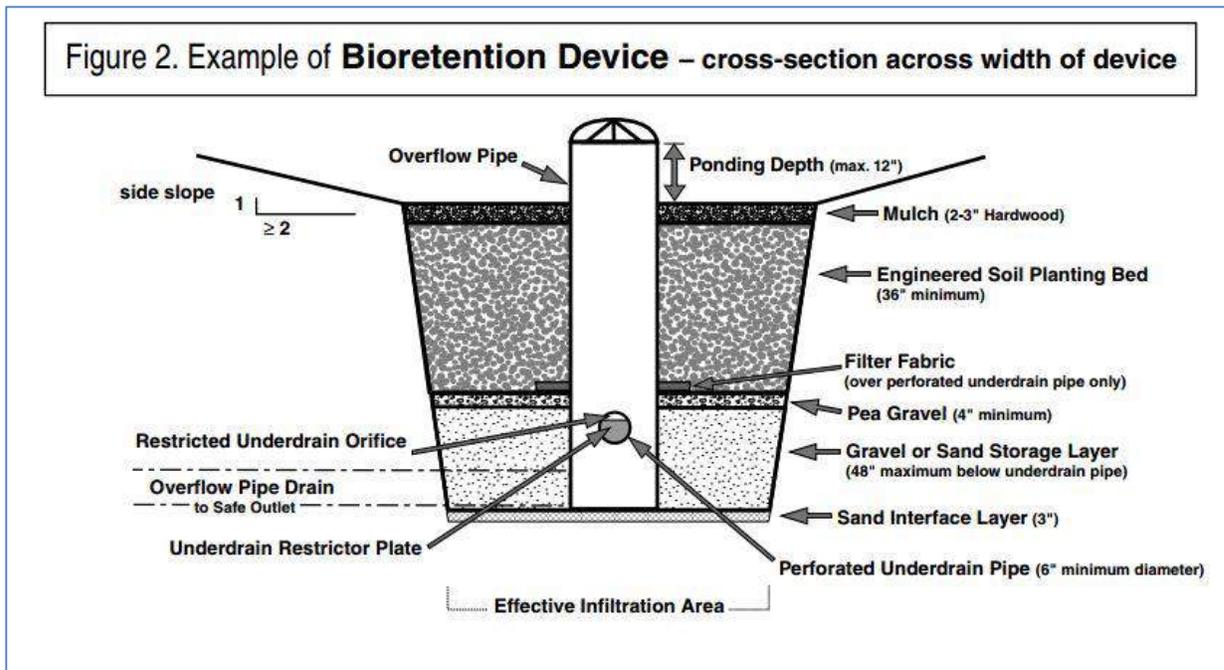
- Schematic for a tree trench system:



- Bioretention device:



- Schematic for bioretention device:



dnr.wi.gov

# City of Fitchburg

## Committee or Commission Referral

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Direct Referral Initiated by:  
 Direct Referral Approved by:

Date Referred: February 24, 2015                      Ordinance Number:  
 Date to Report Back: **March 24, 2015**                      Resolution Number: R-XX-15

---

Sponsored by: Mayor    Drafted by: Planning / Zoning

TITLE: Preliminary Plat request PP-2053-15 by Deborah Hatfield, agent for Hamm Fam Land, LLC, for approval of a revised Preliminary Plat for Quarry Vista.

Background: Applicant is requesting approval of a revised preliminary plat for Quarry Vista. The revised plat includes the southwest corner of the plat as a lot instead of an outlot shown on the original preliminary plat and also reconfigures the block between Quarry Vista Drive, Rock Ridge Road, Stone Gate Drive and Borwnstone Road to incorporate private greenspace being created by the relocation of landfill material. The original Preliminary Plat showed this block as alley loaded single family lots.

Order	Referred To	Staff Contact	Place on Agenda For	Action Taken On Referral
1	Plan Commission	Hovel/Badtke	March 17, 2015	
2	Resource Conservation Commission	Eilertson	March 16, 2015	

Amendments:

March 5, 2015

Mr. Thomas Hovel  
Zoning Administrator/City Planner  
City of Fitchburg  
5520 Lacy Road  
Fitchburg, WI 53711

Re: Quarry Vista  
Amended CDP, PP and Rezoning Response Letter  
MARS Project Number: 1613c

Dear Tom:

We received Planning and Public Works staff comments on February 27, 2015. We have prepared this letter to address the comments and have revised the amended Comprehensive Development Plan (CDP) and Preliminary Plat to incorporate necessary changes. Enclosed are three copies of the revised CDP, Preliminary Plat and CDP with the revisions highlighted.

The staff comments are listed below with our response in red.

Planning Comments:

Revised CDP Comments:

- 1.) Cover page should reflect that this is the February 17, 2015 amendment to the previously approved CDP under Resolution R-12-14.  
**Response: Cover page has been revised.**
- 2.) Page 1 Section 1, Page 6 Section 3.4 – You should recognize that the City was not made aware of the landfill at the time of platting and zoning approvals. When the City discovered the landfill issue in late summer, it was clear that plan was inconsistent with public dedications and improvements.  
**Response: A discussion is included in the text.**
- 3.) Page 1 Section 1 last sentence – The CDP is submitted under Chapter 24 Land Division Ordinance, which requires the CDP.  
**Response: The last sentence has been revised to say Chapter 24.**
- 4.) Page 2 Section 2.2 – some of the property in the development has been rezoned; the CDP should reflect the rezoning(s) that have already taken place.  
**Response: The section has been revised to reflect the rezoning which has already taken place.**
- 5.) Page 6, Proposed Housing Mix - references an Exhibit but does not identify the number. Should this be Exhibit 4?  
**Response: The reference has been revised to say "Figure 4".**
- 6.) Page 6 Section 3.1 – the total units and mf count will be reduced than that shown (indicate 156 mf units but approved GIP for proposed lot 46 is 152 mf units).  
**Response: To provide the apartment lot flexibility in unit numbers, the reference has been changed to say "up to 156 units".**
- 7.) Page 7 Section 3.4 – You state that the landfill closure plan "will be acceptable to all parties", but

it should be noted that at the time of this submittal no formal approval has been granted by the DNR.

**Response:** It is true that at the time the CDP Amendment was submitted, the landfill closure plan was submitted to the DNR but not approved. However, since the CDP submittal, we have continued to meet with and communicate with DNR and City staff in an ongoing review of the closure plan and follow-up documents. This process will result in a closure plan approval that incorporates both DNR and City concerns and direction.

- 8.) Page 7 Section 3.4 – You identify steps for the closure plan activities and end with #7 being the recording of the plat, but nowhere is the city review and approval of the plat in these steps. Staff suggests removing step #7 or alternatively adding a step related to the City review and approval process of the plat.

**Response:** Step #7 has been removed.

- 9.) Page 13/14, Proposed Land Use Data – CDP shows the multi-family development as 156 High Density Apartments; the approved GIP zoning for previously OL9 (now proposed Lot 46 QV) is for 152 units. Please confirm and update data and calculations appropriately.

**Response:** The calculations are based on 156 units to allow the apartment lot flexibility in case they find a way to increase the number of units to 156, the number of units in the original CDP.

- 10.) Page 14, Proposed Zoning – “Initially, the single family areas of Phase One will be rezoned to the proposed zoning while the multi-family lot will be rezoned to A-S”. Given this is an amendment, this should be updated to reflect the current zoning. The sf lots have been rezoned to R-LM and the mf lot is zoned PDD-GIP. Please update and address accordingly.

**Response:** The text has been updated to reflect the rezonings which have already occurred.

#### Preliminary Plat Comments:

- 1.) Previously you had informed staff that the drainage easement on outlot 1 was 14,424 sq ft; the proposed preliminary plat shows the easement as 14,384 sq ft. Please confirm the correct size.

**Response:** The drainage easement shown on the Preliminary Plat is 14,384 SFT.

- 2.) Comment 10 on preliminary plat states that “Outlots 10 and 12 are Dedicated to the public for park and open space, pedestrian/bike path and public water main purposes”. OL 12 is reserved for the single-family home condominiums. Should this not be Outlots 9, 10 and 11 for park and bike path and outlot 12 for future development?

**Response:** Outlot numbers have been revised.

- 3.) The preliminary plat needs to identify the purpose for Outlots 17 & 23. Note 14 states that they are for future environmental corridors but does not identify their purpose. On the previously approved Preliminary Plat these areas were for “private for Drainage purposes owned by the other lots. Each lot shall have 1/150 ownership”. Please note their purpose and ownership on the plat.

**Response:** The purpose for the outlots has been added to the plat. During the previous final plat process, Rick Eilertson requested a change in the language from the original preliminary plat (private for drainage purposes owned by the other lots. Each lot shall have 1/150 ownership) to what is shown now (private for stormwater management purposes owned by members of the Quarry Vista Home Owner’s Association.)

- 4.) Park Improvement fees: Total park improvement fee due for the entire plat (using 318 units as proposed lot 46 GIP zoning calls for 152 units) is \$117,170 in 2015 dollars. The fee will be adjusted to reflect the park improvement fee for the year in which the fee is paid.

Phase 1: \$30,860

Phase 2: \$27,720

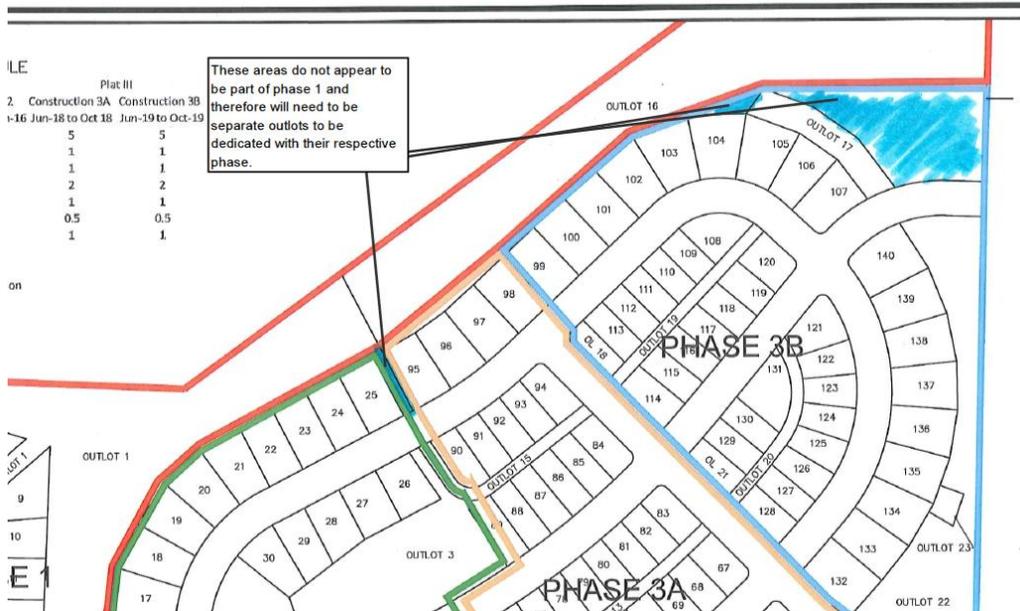
Phase 3: \$58,590



These fees will be required to be paid prior to the signing of the final plat for each respective phase.

**Response: Acknowledged.**

- 5.) In comparing the CDP phasing plan to the preliminary plat, it appears that there are portions of outlots 1 & 16 that will not be dedicated to the City during phase 1. If correct, these will need to be separate outlots to match the phasing. The areas are identified in the image below.



- 6.) Parkland dedication:

Without knowing how the phasing plan overlaps on the preliminary plat, as outlots 1 & 16 are not shown to be fully dedicated during phase 1, it is difficult to analyze parkland dedication for phase 1.

Staff has calculated the total parkland being dedicated and that which is required for the full preliminary plat, based on 318 dwelling units (proposed lot 46 GIP zoning calls for 152 units). The full preliminary plat will be deficient by 126,094 sq ft of parkland, which is equivalent to \$188,271.39 in fee in-lieu of parkland dedication in 2015 dollars. The fee will be adjusted to reflect the fee in-lieu of parkland for the year in which the fee is paid.

Please note that without the information on what portions of outlots 1 & 16 are being dedicated with each phase, staff cannot perform specific calculations per phase.

**Response: The outlots have been revised to match the phasing so the specific calculations can be performed. We understand that since we requested the CDP to reflect 156 units, the calculations will be based on that number of units, not the 152 approved by the PD-GIP.**

- 7.) Parkland Street Frontage:

Based on the overall preliminary plat, with 318 dwelling units, the total required street frontage for parkland is 1,396 feet. The proposed preliminary plat provides 1,245.8 feet, leaving a deficiency for parkland street frontage of 150.2'. In 2015 dollars, the fee in-lieu of street frontage for parkland is \$52,570.

For phase 1, as represented in the CDP, the total street frontage for parkland required is 140.16'; the preliminary plat shows that 83.8' is being provided, leaving a deficiency of 56.36' or \$19,726 (2015 dollars – fee will be adjusted to year in which fee is paid).

The City may be agreeable to the creation of an Escrow account to cover the deficient street frontage for phase 1, although as noted above, the overall plat is showing a deficiency even when all parkland areas have been dedicated.

**Response: We acknowledge the deficiency and will work with the City to address the required fee in-lieu of.**

## Public Works Comments

### General Comments

1. Rezone – Does “P-R” zoning allow for landfill use?  
**Response: P-R zoning is applicable for the outlot’s proposed land use of private open space. The outlot will not be used as a landfill.**
2. Preliminary Plat – The existing landfill area must be identified on the preliminary plat.  
**Response: The existing landfill area has been identified on the preliminary plat.**
3. Preliminary Plat – Note 14 – Please update spelling of “environmental.”  
**Response: The spelling has been corrected.**
4. Preliminary Plat – Please add “Brownstone Road” in the appropriate location.  
**Response: Brownstone Road has been labeled.**
5. A developer agreement will be needed for the public improvements.  
**Response: Understood.**
6. Provide certification letters, from all utility companies that will service this plat, that the easements shown on the plat are sufficient to service this plat. Only utility crossings are allowed within the right-of-way.  
**Response: The utility companies have been contacted and easements shown on the plat per their input. Additional easements will be needed in the alley loaded PDD areas once the pedestals have been located adjacent to the alleys. In Swan Creek, the required easements were prepared based on the as-built location of the peds and were in a separate document (not included on the plat.) We’ll request certification letters from the utility companies and will try to get them for the final plat (which is when the City’s ordinances requires easements to be shown.)**
7. Our Land Division Ordinance requires that if a subdivision is adjacent to a major street that adequate protection of residential properties be done with screen planting and non access restrictions along the rear property line. With the proposed Outlots 9, 10 and 11 this requirement is satisfied.  
**Response: Acknowledged.**
8. Developer must confirm if any grading work is necessary on the property of 2700 Fitchrona Road to allow for the construction of Quarry Vista Drive. If grading work is required, developer shall obtain and provide a copy of a signed agreement, or grading easement, from the property owner to confirm their approval of the grading plan.  
**Response: A copy of the signed agreement with the owner of 2700 Fitchrona Road is attached.**
9. The Department of Natural Resources issued five pages of comments (February 25, 2015) to the proposed landfill plan modification. These comments could impact the proposed plat. Any subsequent changes to the DNR plan modification may necessitate a revised plat and additional comments from the City.  
**Response: Acknowledged.**

### Transportation Comments

1. Preliminary plans and profiles were not submitted with this plat. Plans and profiles must be submitted prior to Plan Commission approving preliminary plat.  
**Response: Preliminary plan and profile drawings were submitted previously. Preliminary P & P drawings for the Phase II area (the eastern half of the site) were submitted May 21, 2014. Those plans have not changed nor need to change. A number of sets of plans have been submitted for the Phase 1 area (the western half.) The most recent set of Phase 1 plans was submitted on September 19, 2014.**

### Water Main and Sanitary Sewer Comments

1. CDP – Figure 6
  - Water and sanitary sewer laterals are currently shown going into Outlot 5 (the proposed modified landfill area). Please remove the laterals to this Outlot. Please add water and sanitary lateral(s) to Outlot 3 for a potential future shelter/water fountain/bathroom facility.
  - Show water main to the eastern plat line along Lacy Road.

**Response: Figure 6 has been revised as requested.**
2. Preliminary Plat
  - Note 10 indicates dedication for “Outlots 10 and 12 for public water main purposes.” Did you mean Outlots 9, 10 and 11? **Response: Outlot numbers have been revised.**
  - Provide a 30’ public water and sanitary easement on the plat between Lots 60 and 61 for water and sanitary service for Outlot 12 as shown in CDP Figure 6. **Response: We added a 30’ easement to serve Outlot 12 but added it between Lots 59 and 60. Figure 6 has been updated to reflect this location.**
  - Provide 20’ public sanitary sewer easement between Lots 7 and 8 and on Outlot 1. **Response: Easement has been added.**
3. The City’s water system currently ends at the intersection of Nesbitt and Fitchrona Road. The City will need to extend water main south along Fitchrona Road to Quarry Vista Drive to service this plat. This water main extension will need to be coordinated with the developer. As this water main will be paid for through impact fees and assessments, the Developer will be assessed for their frontage. The City is concerned about the capital investment of this main. What guarantee will Hammersley provide to ensure development will not be halted by the landfill; that the City will recover these water main costs through impact fees within the development within a reasonable period of time?  
**Response: Hammersley acknowledges the loss of impact fees if the development is delayed beyond the proposed schedule. Hammersley will provide a guarantee in a format acceptable to the City. Perhaps a Letter of Credit would be sufficient.**
4. Please describe the occupancy schedule for this development as it relates to water quality. The Utility’s water age goal is three days or less. How will this goal be maintained in Quarry Vista? The proposed water main on Fitchrona Road that will service this development holds approximately 10,075 gallons of water. To turn the water over in this main every three days, approximately 80 apartment units will need to be occupied. This is based on 2014 water usage at The Vue (115 units at 1,771.917 gpy; 42.2 gpd/unit). This also does not take into account the age of the water at the connection point of this proposed water main at Nesbitt Road.  
**Response: Per the apartment lot developer, the buildings will be constructed consecutively, 4-6 weeks apart so there should be enough units to provide adequate water quality as fast as can be reasonably expected.**

### Erosion Control and Stormwater Management (ECSWM) Comments

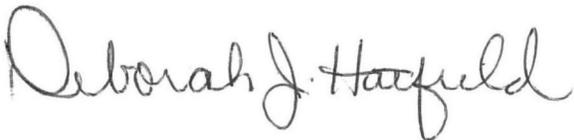
1. CDP – Page 12 still references “stormwater tree” systems. It’s recommended that the terminology be updated to match the “Street Terrace Infiltration Area” concept described in the most current Stormwater Management Plan. **Response: Reference has been updated.**
2. CDP – Figure 3 – Please confirm if DNR has determined the Quarry Ridge Greenway to be “navigable”. If so, please update Figure 3 to show appropriate offsets.  
**Response: we have not taken up the issue of navigability determination for the City-owned Quarry Ridge Greenway directly with DNR, which we believe is appropriate. Note that a possible determination of navigability for the Quarry Ridge Greenway does not affect the Quarry Vista development plan. As confirmed with Tom Hovel and Susan Sloper on March 4, 2015, the City of Fitchburg does not have a shoreland zoning ordinance. No DNR restrictions or setbacks apply if navigability is determined other than potentially needing a “Grading on the Banks of a Navigable Waterway” Chapter 30 permit which is now simply part of the NOI coverage anyway.**
3. CDP – Figure 7 – Please update storm sewer pipe alignment from Turnstone Circle to Quarry Ridge Wet Pond based on the November 3, 2014 walk-through that Rick Eilertson and Scott Endl had with Russ Pietz (MARS). **Response: Figure 7 has been updated.**

4. Preliminary Plat – The drainage along Outlot 1 shall drain from Turnstone Circle right-of way to the Northeast to eliminate chance of surcharging above the sidewalk elevation on Turnstone Circle.  
**Response: The drainage arrows adjacent to Outlot 1 at the end of Turnstone Circle have been updated to drain to the northeast without a high spot.**
5. Preliminary Plat - The delineated boundary of the wetland in Outlot 1 must be shown on the Preliminary Plat. Concurrence from DNR must be submitted along with a confirmation of whether the Quarry Ridge Greenway has been determined to be navigable. If navigable, the appropriate offsets will need to be shown.  
**Response: The delineated wetland boundary has been added. DNR has provided concurrence of the wetland boundary to the Developer and the City. See answer to #2 above regarding navigability.**
6. Preliminary Plat – Note 11 indicates “Outlots 2, 5 & 8 are private for stormwater management purposes...”. Is this intended to be Outlots, 2, 4, and 7? What about 14 and 18?  
**Response: The note has been updated to reflect all private stormwater management outlots.**
7. Erosion Control Permit 14-126 is currently in effect for the Phase 1A area which includes a portion of the proposed Preliminary Plat area (Quarry Vista Drive, Turnstone Circle, Lots 1-15, Turnstone Lane, Stone Gate Drive, Rock Ridge Road, Outlots 2, 4, 5, 6, & 7, and Lots 35-45. This permit does not currently include Lot 46, so if pre-grading > 4,000 s.f. is desired on this lot, a permit amendment will need to be requested, or a new EC permit application must be submitted.  
**Response: Pre-grading of Lot 46 is desired. A permit amendment has been submitted to the City and we are waiting for confirmation of the request.**

Please contact me at 608-839-4422 with any questions.

Sincerely,

Montgomery Associates: Resource Solutions, LLC



Deborah J. Hatfield, PE  
Project Engineer

Enclosures:

Copy, w/enclosures: Keith Hammersley  
Phil Sveum

Agreement between Craig and Rachel Pringle and Keith Hammersley dated 8/26/14

- Survey and reinstall all property irons that are impacted during construction.
- Finish grade, seed and mulch all areas of disturbance including areas disturbed by equipment.
- When cutting or filling, use a minimum of 6 inches of topsoil when finish grading.
- Remove trees on our property as directed by homeowner (near south property line). ✓  
Homeowner will mark trees that should be removed and discuss details with operator ✓ during construction.
- Remove topsoil in an area near NE corner of house approximately 25'x20'x1' deep. Build retaining wall (approximately 1 to 2 feet tall x 25 feet long) along the edge of the patio area as directed by homeowner. Use the same limestone block material as the walls being constructed along the south property line. Backfill excavated area with 1 1/4" or 1 1/2" washed or clear stone. Specific layout of area to be determined prior to work being done – design work needs to be completed on this area.
- Install 1-inch water lateral to the southeast corner of the house following a path to be determined in field by operator and homeowner. The approximate length of lateral is +/- 70 feet, measured from the property line.
- Install limestone block retaining wall along south property line from approximately STA 40+50 to STA 41+50, with the end at 41+50 curving north to blend into the existing terrain.
- Install limestone block retaining wall along south property line from approximately STA 42+05 to east lot line or farther east.
- Homeowner and operator(s) doing retaining wall work will discuss and reach agreement on the construction layout of the walls to blend appropriately into the existing terrain as they are constructed. Homeowner will be available for consultation during construction process. The blocks should be placed in order to allow a fence to be installed one foot off of property line on the homeowner's property.
- The homeowner will review and approve installation specifications for the retaining walls (free draining backfill material) if not approved prior by the City of Fitchburg.
- Include \$19,000 payment to homeowner. Payment to be made within 60 days of completion of sidewalk and street work on the portion of Quarry Vista adjacent to Pringle property.

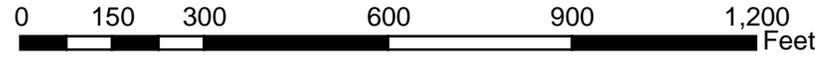
Craig a Pringle 8/26/14  
Keith E. Hammersley 8/26/14



# Fitchburg Annual Waterway Cleanup

Saturday, April 18, 2015

9:00 am - 11:00 am



## Legend

- City Limits
- Trail
- Inlets
- Storm Manholes
- Outfalls
- Stormsewer Lines
- Culverts
- Drainageways
- Pond\_Release\_Structures

## Basins

- Type
- Wet
  - Dry
  - Rain Garden

## Fitchburg's Spring 2015 Clean Sweep, Shred Day, & Electronics Recycling Event

The City of Fitchburg, Oak Bank, Pellitteri Waste Systems, Clean Sweep and Surplus-IT have scheduled Fitchburg's Spring Cleaning Collection Event on **Saturday, May 9, 2015**.

**The Clean Sweep Event** will be held **8:00am to 11:00am** at the Fitchburg Public Works Facility, 2373 S. Fish Hatchery Rd. Household hazardous waste will be collected and disposed of through an agreement with Dane County Clean Sweep for this one time event. There is a \$10 charge per car load, items accepted include: Pesticides & Poisons, Oil-based Paints, Household Products containing Organic Solvents, Ignitables, and Aerosols. Latex Paint will not be taken at this event. Please contact Rick Eilertson, Environmental Engineer, at 270-4264, [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov), with any questions about the Clean Sweep Event.

**The Shred Day Event** will be held **8:00am to 11:00am** behind Oak Bank (5951 McKee Road) at the corner of Executive & Marketplace Drives. Look for Pellitteri's Shred Truck in the parking lot. This event provides shredding to destroy your confidential paper documents. Up to **5 bankers boxes** of confidential paper documents can be shredded and recycled **FREE** of cost. Pellitteri is even offering their newest truck which is outfitted with "Idling Reduction" technology. Please contact Jeff Potter, Pellitteri Waste Systems at 257-6232 ext 323, [jeffp@pellitteri.com](mailto:jeffp@pellitteri.com) or Felipe Avila, Engineering/GIS Specialist at 270-4277, [felipe.avila@fitchburgwi.gov](mailto:felipe.avila@fitchburgwi.gov), with any questions about the Shred Day Event.

**The Electronics Recycling Event** will be held from **8:00am to 11:00am** at Surplus-IT's warehouse (901 Watson Avenue). Look for directional signage from the intersection of Fish Hatchery Road and Greenway Cross heading to the east.

Items Accepted:

**Free!:** Computers, LCD (Flat panel liquid crystal display) Monitors, Printers, Stereo Equipment, Media (cds, dvds, floppy disks, magnetic tape, etc.), lead acid batteries, Styrofoam Packing Peanuts

**\$0.25/lb Charge:** VCR & Cassette Tape, Alkaline Batteries

**\$5 Charge:** Microwaves, other Kitchen Electronics

**\$15 Charge:** All CRT (Cathode Ray Tube) Monitors

**\$25 Charge:** TVs less than 27", Refrigerators, Dehumidifiers, Air Conditioners

**\$35 Charge:** TVs 27" or larger (console TV's may cost more for disposal)

Please contact Lee Shinefield (Surplus-IT) at 209-8000, [lee@surplus-IT.com](mailto:lee@surplus-IT.com) or Felipe Avila, Engineering/GIS Specialist at 270-4277, [felipe.avila@fitchburgwi.gov](mailto:felipe.avila@fitchburgwi.gov), with any questions about the Electronics Recycling Event.

Information about other options for recycling may be found in Fitchburg's 2015 Recycling Guide, on Fitchburg's web page at: [www.fitchburgwi.gov/solidwaste](http://www.fitchburgwi.gov/solidwaste). Hard copies are available in the lobby of Fitchburg City Hall.



Cut and Save

Surplus-IT Electronics Recycling Coupon

**\$5.00 off**

**any CRT monitor – 33% Savings**

1 coupon per customer please

Normally \$15, Now only \$10 w/ coupon

Valid May 9, 2015 from 8:00am -11:00am at  
Surplus-IT's warehouse (901 Watson Avenue)

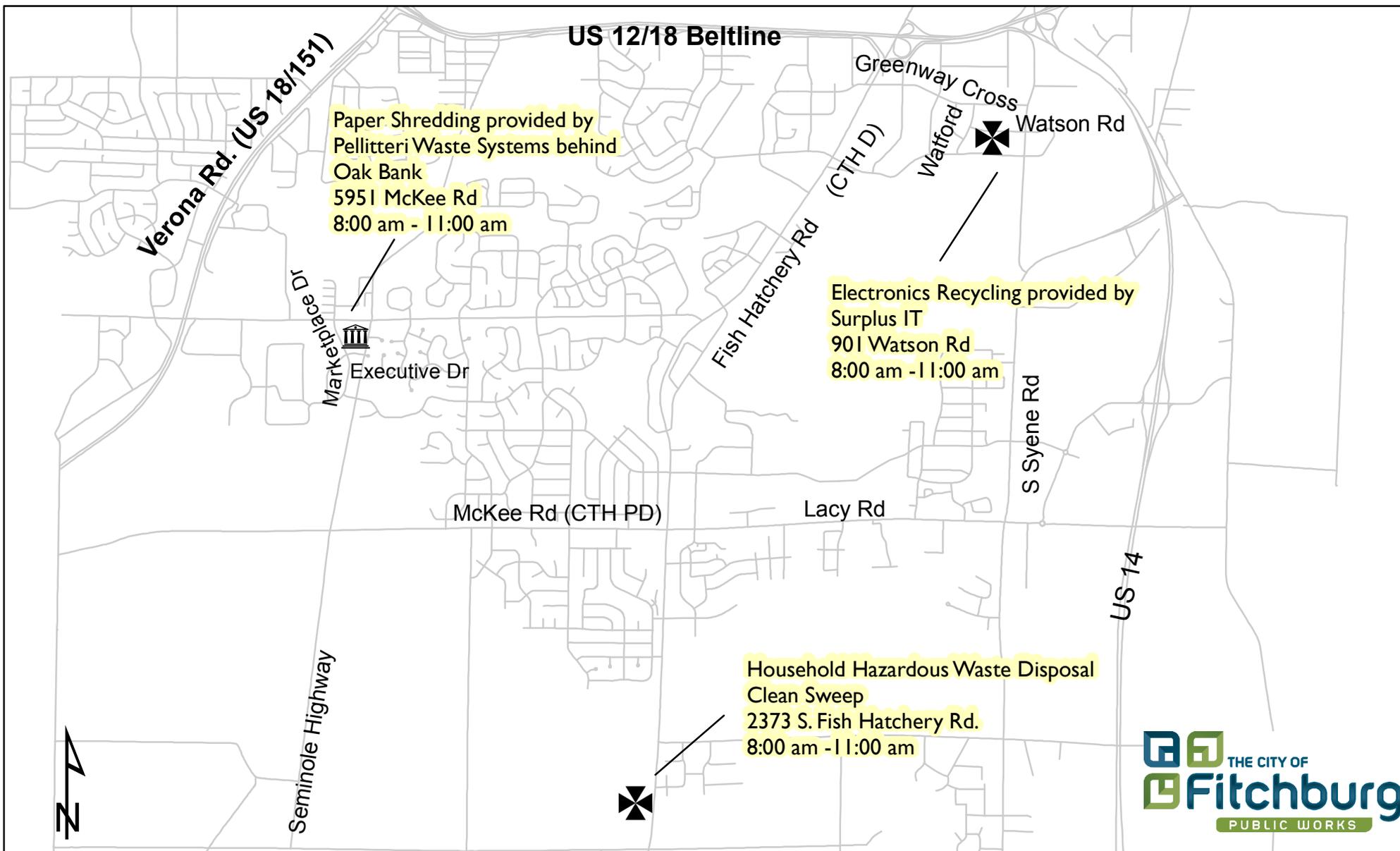
# 2015 Fitchburg Electronics Recycling, Paper Shred & Clean Sweep Events May 9, 2015

## Electronic Items Accepted:

- Free:** Computers, LCD Monitors, Printers, Stereo Equipment  
CD's, DVD's, Floppy Disks, etc, Lead Acid batteries, Styrofoam Packing Peanuts
- \$0.25/lb Charge:** VCR & Cassett Tapes, Alkaline Batteries
- \$5 Charge:** Mircowaves, other Kitchen Electronics
- \$15 Charge:** All CRT Monitors
- \$25 Charge:** TV's less than 27". Refrigerators, Dehumidifiers, Air Conditioners
- \$25 Charge:** TV's 27" or larger

## Paper Shredding:

- Free:** Limit of 5 boxes per person
- Clean Sweep:**
- \$10 Charge:** Per car load
- Pesticides & Posions, Household Products  
Containing Orgainc Solvents, Ignitables &  
Aerosols



## Rick Eilertson

---

**From:** Cory Horton  
**Sent:** Friday, December 19, 2014 6:57 AM  
**To:** Rick Eilertson  
**Cc:** Steve.Arnold@Fitchburg.WI.us  
**Subject:** Fw: Sand for city residents

Rick,

Can you please get this topic on the next RCC agenda?

Cory

---

From: Steve.Arnold@Fitchburg.WI.US <Steve.Arnold@Fitchburg.WI.US> on behalf of Steve Arnold <Steve.Arnold@Fitchburg.WI.US>  
Sent: Monday, December 15, 2014 9:20 PM  
To: Cory Horton  
Cc: Steve.Arnold@Fitchburg.WI.US; Diane Streck  
Subject: Re: Sand for city residents

Cory, thank you for your response. With a copy of this message, passing this correspondence on to RCC chair Diane Streck, for possible discussion at a future RCC meeting in the context of our goal to reduce salt use in the city and chloride pollution of downstream waters.

My comments on your concerns follow.

On 12/15/2014 2:14 PM, Cory Horton wrote:

- > This would be a policy decision that should start at the board of public works.
- >
- > I would have the following concerns regarding providing sand to residents:
- >
- > 1) Environment - Sand also has a large environmental impact (air quality, stream channel/lake degradation). See page 11 of:  
> [http://maintenance.transportation.org/Documents/nchrp%2020-7\\_Task%2013](http://maintenance.transportation.org/Documents/nchrp%2020-7_Task%2013%20Revised%20Chapter%208%20with%20Summary%20of%20Research.pdf)  
> Revised%20Chapter%208%20with%20Summary%20of%20Research.pdf
- > The net environmental impact may be worse than not providing sand.

I would expect the quantity to be small, and be a substitute for salt, so I thought it would be an improvement.

- > 2) Safety - pedestrians outside vehicles on icy roads can be very dangerous

My thought was that residents would use sand instead of salt on their walks and driveways. I agree that we don't want folks outside their stuck cars on the roadways, but this isn't about that. I am not suggesting the barrels on terraces used by Madison.

- > 3) Logistics - Sand has moisture and freezes. This would make it

> difficult to distribute (even in covered barrels or under a tarp)

This would be an implementation detail. If it proves infeasible, then we'd need to come up with other ideas to reduce salt use for ice melting.

> 4) Sand creates a large maintenance burden (cleanout of pipes and storm sewers)

Again, I was thinking this was preferable to salt, and used in small quantities. Folks using it around their homes would need to deal with any mess or buildup over time.

This would also suggest that we shouldn't use sand on roads, either. I thought we do (e.g., when temps are too low for salt to be effective).

> 5) Equity - Should the City be providing sand for private use? How would it be distributed to be fair to all?

Like the free wood chips at the recycling drop-off center, residents would need to pick up the small quantities they want.

> -----Original Message-----

> From: Steve.Arnold@Fitchburg.WI.US

> [mailto:Steve.Arnold@Fitchburg.WI.US]

> Sent: Friday, December 12, 2014 3:25 PM

> To: Cory Horton

> Cc: Steve.Arnold@Fitchburg.WI.US

> Subject: Sand for city residents

>

> This is a new initiative I'd like Public Works to consider.

>

> When I lived in Madison (1983-1994), Madison placed large barrels of sand on the terrace of step streets (e.g., Seminole Hwy north of the Beltline). One could carry a folding shovel in one's car, and get a little sand to put under your wheels if you couldn't get up the hill.

> The barrels may have been old poly pickle barrels.

>

> As a secondary benefit, residents were invited to take any sand they needed for their own driveways and walks from these barrels, at no charge. The city crews kept the barrels full all winter. I had a five-gallon pail in my garage I used for sand, and refilled it at one of the city barrels when needed.

>

> Fitchburg buys sand for sanding roads by the ton. I would like us to

> establish a way that residents (but not companies or commercial

> operators) could get some of our sand for their walks and drives. Some years ago, I took my bucket to the public works garage on this quest. I was told by a streets worker that I could fill my bucket from the salt shed as a one-off, but that such resident use of city sand is prohibited because of liability issues.

>

> I get the liability issues, and that we probably don't want residents in the salt shed. My request is that public works staff brainstorm some alternate method of providing sand for residents in small quantities.

> One flawed idea would be to dump a load on a sand volleyball court at one of the parks in the fall, then spread any left in the spring to restore the court. Naturally, this won't work because the sand will freeze and become inaccessible during the winter. However, there must be some other way we could provide this service.

>

> The recycling drop-off center might be a place for this. Could we use the bay where we give away free wood chips during the warm parts of the year? Would a tarp keep the sand dry enough?

>

> I am proposing sand distribution as a way to potentially reduce the use of melting salt in Fitchburg, and thus chloride pollution of our streams and lakes.

>

> Would you be willing to discuss this with your staff? If some kind of facility or budget money were needed, we can continue with the idea for next winter. However, if we can do this with existing resources, it would be great. Let me know what you think!

--

Steve Arnold, Fitchburg Alder, District 4, Seat 7

2530 Targhee Street, Fitchburg, Wisconsin 53711-5491 Telephone +1 608 278 7700 · Facsimile +1 608 278 7701

Steve.Arnold@Fitchburg.WI.US · <http://Arnold.US> Become a supporter: like <http://facebook.com/SteveArnoldforMayor>.

Paid for by Friends of Steve Arnold, Sam Cooke, Treasurer

**Green**  
Tuesdays &  
Thursdays

# GREEN Films & Lectures THURSDAYS

## Fitchburg RCC 2015 Forum: Green Complete Streets

The Fitchburg Resource Conservation Commission invites you to a forum on Green Complete Streets. La Crosse Asst. City Engineer Bernard Lenz will talk about their efforts to integrate green infrastructure practices into the Complete Streets process and some lessons learned along the way.



Neighborhood Greenway

Street water runs here

**Thursday, April 9 • 3:00-4:30 p.m.**  
Fitchburg Public Library, 5530 Lacy Road, Fitchburg

Sponsored by:

Richard & Judy Fritz





## Fitchburg Green Complete Streets Forum Set for April 9<sup>th</sup> from 3-4:30 p.m.

The Fitchburg Resource Conservation Commission is hosting a forum on Green Complete Streets **Thursday, April 9<sup>th</sup> from 3:00-4:30 p.m.** at the Fitchburg Library (5530 Lacy Rd.) in Room A/B. Bernard Lenz, La Crosse Assistant City Engineer, will discuss the City of La Crosse's efforts to integrate green infrastructure practices into their Complete Streets process.

While Complete Streets improves health, safety and accessibility for pedestrians, bicyclists, motorists and public transportation users of all ages and abilities, the "green" component of La Crosse's 2012 Green Complete Streets Ordinance ensures environmental sustainability through stormwater management, landscaping and air quality improvements that are integral to the process as well.

All Complete Streets look different, but common features include sidewalks, bike lanes, raised crosswalks, bus shelters and crossings, refuge medians, wide shoulders, special bus lanes, sidewalk bulb-outs and audible pedestrian signals. A "Green" Complete Street adds green infrastructure such as porous pavement, grass swales, bio-retention basins, trees and vegetated boulevards and medians.

Green Complete Streets make it easier and more enjoyable to cross the street, walk to shops or bicycle to work while lowering environmental impacts, and thus facilitate a healthier, active city. Making the change to a Green Complete Street design process can be difficult. Mr. Lenz will share how La Crosse integrated green infrastructure into the Complete Street process and describe some of the lesson learned along the way.

For more information on La Crosse's Green Complete Streets, visit [www.cityoflacrosse.org](http://www.cityoflacrosse.org)

City of Fitchburg contact: Erika Kluetmeier, Sustainability Specialist,  
[erika.kluetmeier@fitchburgwi.gov](mailto:erika.kluetmeier@fitchburgwi.gov) or 608-270-4274

**Report Status:** In Progress  
**Report Date:** April 30 2015

State of Wisconsin  
Department of Natural Resources

**Questions:** MARIE STEWART  
3911 Fish Hatchery Road  
Fitchburg WI 53711

Marie.Stewart@Wisconsin.gov  
608-275-3298

2014 ANNUAL REPORT RECYCLING PROGRAM  
ACCOMPLISHMENTS AND ACTUAL COSTS  
Form 4400-182 Rev. 2-08

NOTICE: Completion of this form fulfills the mandatory annual reporting requirement for continued approval of a responsible unit's recycling program and retention of the DNR recycling grant, for those who received it. This form is authorized by s. NR 544.10 and s. NR 542.09(3), Wis. Adm. Code. Personally identifiable information will be used for program administration and must be made available to requesters as required by Wisconsin Open Records law [s. 19.31-19.39, Wis. Stats].

Responsible Unit (RU)	County	Municipal Code	RU Population
City of Fitchburg	Dane	13225	26090

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## SECTION 1: CONTACT INFORMATION

---

### A. Authorized Representative

**Name:** Horton, Cory  
**Title:** none  
**Address:** 5520 Lacy Rd  
Fitchburg, WI 53711-5318  
**Telephone:** 608-270-4261      **Phone Type:** Landline  
**Email:** cory.horton@fitchburgwi.gov

### B. Primary Contact

**Name:** Eilertson, Rick  
**Title:** Environmental Engineer  
**Address:** 5520 Lacy Rd  
Fitchburg, WI 53711-5318  
**Telephone:** 608-270-4264      **Phone Type:** Landline  
**Email:** rick.eilertson@fitchburgwi.gov

## SECTION 2: EFFECTIVE PROGRAM INFORMATION

### A. Collection of Recyclables for 1 - 4 Residential Unit Housing – Single Member

**1. Do you provide curbside collection?**

Y

**a) What is your primary curbside collection method?**

Single Stream (all recyclables in one bin)

**b) How often are recyclables picked up?**

Bi-Weekly

**c) How is curbside service provided?**

RU contracts private hauler(s) to provide collection service

**2. Do you provide drop-off center(s)?**

Y

**a) How many total hours is your drop-off center(s) open monthly, on average?**

360

**b) Who operates the drop off center(s)?**

RU operates drop-off site(s)

#### 4. Drop off site list

Site Name	Location or Address	City
Fitchburg Recycling Drop Off Site	2373 S. Fish Hatchery Rd	Fitchburg

**5. What is your primary collection method?**

Curbside

#### 6. Hauler List

Hauler Name	C & T	Contract
PELLITTERI WASTE SYSTEMS INC	10931	Municipality(RU)

### B. Processing of Recyclables for 1-4 Residential Unit Housing

#### 1. List of Materials Recovery Facilities (MRF)

Materials Recovery Facility	DNR ID	RU Contract
PELLITTERI WASTE SYSTEMS INC		Y

#### 2. List of Other Processors and End Users

### C. Compliance

**1. Does your RU have a recycling ordinance?**

Y

**a) Did your recycling ordinance change during the previous calendar year?**

Y

**b) Ordinance Effective Date**

04/03/2013

**2. Have you implemented a Compliance Assurance Plan (CAP) as required by s. NR 544.04(9g), Wis. Adm. Code?**

Y

**a) Did you make changes to your CAP during the previous calendar year?**

N

**3. How does your RU ensure compliance with your recycling ordinance at residences with 5 or more units?**

RU staff respond to recycling-related complaints

Other: Staff follows up on complaints and makes occasional site inspections to verify compliance

**4. How does your RU ensure compliance with your recycling ordinance at non-residential facilities and properties (e.g., businesses, stadiums, events, etc.)?**

RU staff respond to recycling-related complaints

Other: Staff follows up on complaints and makes occasional site inspections to verify compliance

**SECTION 3: ANNUAL PERFORMANCE INFORMATION**

**A. Compliance & Enforcement**

**1. Compliance and enforcement actions taken**

	Complaints Received	Warning Tags	Verbal Warnings	Written Warnings	Inspections	Citations
<b>1 - 4 units residential</b>	5	8	5	16		1
<b>5+ units residential</b>	1	0	0	1	0	0
<b>Non-residential (Business)</b>	0	0	0	0	0	0

**B. Table 1 Materials and Weights Collected**

**1. Table 1 Materials Collected**

**Material Name**

Newspaper

Corrugated cardboard

Magazines

Residential mixed paper

Aluminum containers

Steel & bi-metal containers

Plastic containers #1 & #2

Plastic containers #3 - #7

Foam PS packaging

Glass containers

**2. List of Reported Tonnages**

Name	Type	Tonnage
<b>PELLITTERI WASTE SYSTEMS INC</b>	<b>MRF</b>	<b>1652.53</b>
Aluminum containers		19.40
Corrugated cardboard		276.60
Foam PS packaging		4.93
Glass containers		366
Magazines		370
Newspaper		204.50
Plastic containers #1 & #2		88.10
Plastic containers #3 - #7		21.40
Residential mixed paper		252.70
Steel & bi-metal containers		48.90
<b>Loads Include:</b>		

### 3. Summary of Compliance with Table 1 Collection

<b>a) Total weight of Table 1 materials collected from residences</b>	1,652.53
<b>b) Per capita collection</b>	126.68
<b>c) Per capita collection standard (lbs. per capita)</b>	106.55

Based on the data you provided, you have MET your Table 1 collection standard.

### C. Information on Other Materials Collected From Residents

#### 1. Table 2 Other banned materials collected for recycling

Material Name	Weight/ Unit
Electronics	2400 Number of
Used oil	3610 Gallons
Used oil filters	1590 Pounds
Yard waste	1061 Tons

#### 2. Additional Materials Collected from Residents

Material Name
Food/beverage cartons
Non-bottle plastic containers
Plastic bags, wrap and film
Scrap metals

<b>3. Do you have documented data on the amount of municipal trash/garbage collected from your community for this reporting year?</b>	Y
<b>a) What was the tonnage?</b>	3,222.00

<b>4. Do you operate a household hazardous waste collection center?</b>	N
---	---

### D. Report of Actual Recycling Costs

#### 1. Section 3.D will be blank if you did not have a grant award

<b>a) Total cost of recycling program</b>	425,706.00
<b>b) Ineligible costs</b>	5,172.00
<b>c) Eligible recycling expenses</b>	420,534.00
<b>d) Other deductible revenue</b>	1,680.00
<b>e) Revenues from the sale of recyclables</b>	3,492.00
<b>f) Net eligible recycling costs</b>	420,534.00
<b>g) Cost of handling yard waste</b>	
<b>h) Net eligible recycling costs excluding yard waste</b>	415,362.00
<b>i) Cost (net eligible recycling costs excluding yard waste) per capita</b>	15.92
<b>j) Cost (net eligible recycling costs excluding yard waste) per ton</b>	251.35

You have successfully earned your grant. Repayment will not be required

## E. Outreach and Other Program Features

### 1. What outreach efforts did you undertake in the program year?

- News releases
- Print ads (newspaper, magazines, etc.)
- Printed publications (flyers, handouts, etc.)
- Recycling focused event (collections, cleanups, etc.)
- School education program (Green & Healthy Schools, etc.)
- Social media (facebook, twitter, etc.)
- Web site has recycling info (what to recycle, when, where, and how)

### 2. Do you have a Pay As You Throw/Volume Based Fee system for trash collection? Y

- Inverted rate structure for trash bins (pay more for larger bins)

### 3. Are you active in special events recycling? Y

- Provide loaner recycling bins

### 4. Do you require haulers that are contracted by your residents to be licensed or registered with the community in order to provide recycling services?

### 5. Have you targeted any of these for special outreach/improvement?

- |   |   |
|---|---|
| <b>a) Business or targeted business sector</b>                  | Y |
| <b>b) Incentive programs such as Recycle Bank for residents</b> | N |
| <b>c) Multi-family housing (more than 4 units)</b>              | Y |
| <b>d) Work with hauler to improve the program</b>               | Y |

### 6. Do you work with other communities to coordinate or jointly provide services? Y

**SECTION 4: CERTIFICATION**

**RU Name:** City of Fitchburg  
**Mail To:** MARIE STEWART  
 3911 Fish Hatchery Road  
 Fitchburg WI 53711

**Muni Code:** 13225  
**County:** Dane  
**Population:** 26090

**A. Summary of 2014 Recycling Performance**

<b>Total weight of Table 1 materials collected from residences</b>	1,652.53
<b>Per capita collection</b>	126.68
<b>Per capita collection standard</b>	106.55
<b>Based on the data you provided, you have MET your Table 1 collection standard.</b>	
<b>Grant Award</b>	103,355.33
<b>Net eligible recycling costs excluding yard waste</b>	415,362.00
<b>Cost (net eligible recycling costs excluding yard waste) per capita</b>	15.92
<b>Cost (net eligible recycling costs excluding yard waste) per ton</b>	251.35

**B. Exemption not required**

**C. Assurances**

A. The responsible unit certifies the program operates in accordance with its Effective Recycling Program Approval or, if there have been changes, the responsible unit has described those changes in this 2014 Annual Report Form.

B. The responsible unit agrees to comply with all applicable provisions of ch. 287, Wis. Stats., and chs. NR 544 and NR 542, Wis. Adm. Code.

C. The responsible unit understands that if it fails to comply with any applicable provision of ch. 287, Wis. Stats., chs. NR 544 Wis. Adm. Code, and NR 542 Wis. Adm. Code, or its Effective Recycling Program Approval, the following may happen:

- \* the responsible unit's Effective Recycling Program approval may be revoked,
- \* the responsible unit may not be allowed to dispose of its solid waste in solid waste disposal and solid waste treatment facilities located in the date of Wisconsin, and
- \* the responsible unit may lose its eligibility for a state recycling grant.

D. The responsible unit certifies that in the management of its solid waste, it has, whenever possible and practical, followed these priorities: 1) the reduction of the amount of solid waste generated; 2) the reuse of solid waste; 3) the recycling of solid waste; 4) the composting of solid waste; 5) the recovery of energy from solid waste; 6) the land disposal of solid waste; and 7) the burning of solid waste without energy recovery.

I hereby acknowledge I am the duly authorized representative of the responsible unit and, to the best of my knowledge and belief, the information contained in this report is correct, true and complete.

**D. Certification**

**I have reviewed all sections of this report.**

Name of Authorized Representative	Signature of Authorized Representative	Date Submitted
Cory Horton		

**Prepared by:** Eilertson, Rick  
**Confirmation #:** 608-270-4264  
 5520 Lacy Rd  
 Fitchburg, WI 53711-5318

**2013-2014 (Due by March 31, 2015)**

**For the Cities of Fitchburg, Madison, Middleton, Monona, Sun Prairie, and Verona; the Villages of DeForest, Maple Bluff, McFarland, Shorewood Hills, and Waunakee; the Towns of Blooming Grove, Burke, Madison, Middleton, Westport, and Windsor; Dane County; and the University of Wisconsin – Madison**

This document is for the purpose of biennial reporting on activities undertaken pursuant to WPDES Permit No. WI-S058416-3 for the above listed municipalities. An owner or operator of a municipal separate storm sewer system covered by a municipal storm water discharge permit under Chapter NR 216, Wis. Adm. Code, is required to submit a biennial report to the Department of Natural Resources by March 31 of every odd numbered year to report on activities for the previous two (2) calendar year. Information in the biennial report will be used by the Department of Natural Resources to assist with assessing permit compliance. Use of this specific form is optional. The Department of Natural Resources has created this form for the user's convenience and believes that the information requested on this form meets the reporting requirements for an owner or operator of a municipal separate storm sewer system covered by WPDES Permit No. WI-S058416-3. However, an owner or operator of a municipal separate storm sewer system that uses and completes this form will not automatically be deemed to be in compliance with other requirements of WPDES Permit No. WI-S058416-3.

**Complete and submit the biennial report by March 31, 2015, to the following address: Storm Water Management Specialist, Wisconsin Dept. of Natural Resources, South Central Region, 3911 Fish Hatchery Rd., Fitchburg, WI 53711**

**I. MUNICIPAL INFORMATION**

Name of municipality City of Fitchburg	Contact person and title Rick Eilertson, Environmental Engineer
Mailing Address 5520 Lacy Road Fitchburg, WI 53711	Telephone no. (608) 270-4264
	Fax no. (608) 270-4275
	E-mail address <a href="mailto:rick.eilertson@fitchburgwi.gov">rick.eilertson@fitchburgwi.gov</a>

Does the municipality have an internet website?  Yes  No  
If yes, provide internet address:  
<http://www.fitchburgwi.gov>

If the municipality has an internet website, is there current information posted about or links provided to the municipal storm water discharge permit and the municipality's storm water management program?  Yes  No  
If yes, provide internet address:  
<http://www.fitchburgwi.gov/stormwater>

**II. CERTIFICATION**

*I certify 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 the biennial report.*

Authorized representative printed name Cory Horton, P.E.	Authorized representative title City Engineer / Director of Public Works
Authorized representative signature	Date signed

**III. GENERAL INFORMATION**

a. Has the municipality made any changes under its legal authority that affects implementation of the requirements of the municipal storm water discharge permit (e.g., changes to ordinances)?  Yes  No  
 If yes, describe the changes in **Appendix A**.

b. List the people who attended quarterly meetings on behalf of the municipality and indicate the quarterly meetings in which the municipality was represented for the reporting year.

<u>Name</u>	<u>Title</u>	<u>Affiliation</u>
<u>Rick Eilertson</u>	<u>Environmental Engineer</u>	<u>City of Fitchburg</u>
<u>Felipe Avila</u>	<u>GIS Engineering Specialist</u>	<u>City of Fitchburg</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

c. Quarterly meetings represented:  February 2013  May 2013  August 2013  November 2013  
 February 2014  August 2014

d. Describe in **Appendix A** how the municipality internally coordinates implementation of the requirements of the municipal storm water discharge permit between the municipality's agencies, departments, and programs. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

e. Describe in **Appendix A** how elected and municipal officials and appropriate staff are kept apprised of the municipal storm water discharge permit. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

f. Has the municipality prepared its own municipal-wide storm water management plan?  Yes  No

If yes, date of storm water management plan:

g. Describe in **Appendix A** how the requirements of the municipal storm water discharge permit are incorporated into master planning activities, neighborhood plans, development plans, or other comprehensive planning activities.

**IV. Permit Conditions**

**a. Public Education and Outreach**

Dane County only:

1. Has any municipality failed to submit its financial contribution in accordance with the *Intergovernmental Agreement to Create and Fund a Position Responsible for Storm Water Management Education and Outreach*?  Yes  No

If yes, list municipalities:

2. Describe in **Appendix B** the Information and Education plan implementation and activities for the reporting year(s), including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

All municipalities:

3. Describe in **Appendix B** how any materials produced by Dane County on behalf of the municipality have been used and/or distributed. Provide examples.

4. Describe in **Appendix B** any individual information and education activities undertaken for the reporting year, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

**b. Public Involvement and Participation**

1. The group permit requires that the information in this biennial report be an agenda item for discussion before the appropriate governing board(s) or council(s) contemporaneous with the submittal of the biennial report to the Department of Natural Resources. Accordingly, please provide the following information:

2. Name of board(s)/council(s):

**Board of Public Works (BPW) & Fitchburg's Resource Conservation Commission (RCC)**

3. Date(s) of meeting(s) to discuss the biennial report:

**BPW & RCC: February 16, 2015. RCC again on March 16, 2015. Electronic copies were also sent to the Common Council in March 2015.**

4. Describe in **Appendix B** the opportunities and types of forums for public involvement and participation in permit related activities that occurred during the reporting year. Include an assessment of the effectiveness of efforts to involve the public and the level of participation.

**c. Illicit Discharge Detection and Elimination**

1. Describe in **Appendix B** the illicit discharge detection and elimination program developed to comply with the permit. Include information on the municipality's strategy to prevent, detect, and eliminate all types of illicit discharges; how priorities are established for field screening and the methodologies to be used for field screening; and procedures for responding to and rectifying illicit discharges to the MS4, including spills, improper disposal of waste or dumping. Also include an assessment of the effectiveness of detection and elimination of illicit discharges, prevention of improper disposal of waste and dumping, the handling of spills, and any enforcement efforts involving these activities.

2. Has the municipality performed any field screening for the reporting year?  Yes  No  
If yes, please provide documentation in **Appendix B** the results of the field screening.

3. Has the municipality investigated any instances of spills, improper disposal of waste or dumping?  Yes  No  
If yes, please provide documentation in **Appendix B** the results of the investigations.

4. Describe in **Appendix B** how the municipality facilitates public reporting of illicit discharges.

**d. Construction Site Pollution Control**

1. Does the municipality notify landowners who apply for local construction or land disturbing permits of the possible applicability of Subchapter III of Chapter NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, to the landowners' construction projects?  Yes  No  
If yes, please explain the process for providing this notification. If no, please explain why this notification is not provided.

**This notification is incorporated into the Erosion Control & Stormwater Management Permit Application checklist and discussed with the applicant during the permit review process.**

2. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

3. Describe in **Appendix B** the procedures the municipality employs for the inspection of construction sites and enforcing erosion control standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for a construction site where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

4. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards.

**Rick Eilertson, P.E., Environmental Engineer**

5520 Lacy Road, Fitchburg, WI 53711, 608 270-4264, [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov)  
-Plan review, Site inspections

**Felipe Avila, Engineering/GIS Specialist**

5520 Lacy Road, Fitchburg, WI 53711 608 270-4277, [felipe.avila@fitchburgwi.gov](mailto:felipe.avila@fitchburgwi.gov)  
-Plan review, Site inspections

5. Include in **Appendix B** an assessment of the municipality's construction site pollution control program effectiveness in meeting the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, including enforcement efforts.

**e. Post-Construction Site Storm Water Management**

1. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

2. Describe in **Appendix B** the procedures the municipality employs for inspecting the construction and installation of storm water best management practices and enforcement actions to ensure compliance with post-construction storm water management standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for non-compliance with post-construction storm water management standards for sites where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

3. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards, and the requirements of Subchapter III of Chapter NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, where applicable.

**Rick Eilertson, P.E., Environmental Engineer**

5520 Lacy Road, Fitchburg, WI 53711, 608 270-4264, [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov)  
-Plan review, Site inspections

**Felipe Avila, Engineering/GIS Specialist**

5520 Lacy Road, Fitchburg, WI 53711 608 270-4277, [felipe.avila@fitchburgwi.gov](mailto:felipe.avila@fitchburgwi.gov)  
-Plan review, Site inspections

4. Include in **Appendix B** an assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts.

**f. Municipal Pollution Prevention**

1. List in **Appendix B** an inventory of long-term storm water best management practices owned, operated, managed, or maintained by the municipality. Include storm water basins, infiltration practices, treatment structures, and other practices for long-term water quality treatment. For each best management practice, provide the name, location, type of practice, and any maintenance activities undertaken for the practice during the reporting year. Also in **Appendix B**, provide a description of the maintenance procedures used and schedules for each long-term storm water best management practice and the approximate amount of solids collected (tons or cubic yards) from any structural control receiving maintenance.

2. Does the municipality perform catch basin cleaning?  Yes  No

If yes, approximate amount of solids collected (tons or cubic yards): 18 cubic yards Describe in **Appendix B** the procedures used and schedules for catch basin cleaning. If no, explain:

3. Does the municipality perform street sweeping?  Yes  No

If yes, approximate number of street miles swept: ~86 miles of 2-lane urban streets with curb and gutter and ~10 miles of 4-lane urban streets with curb and gutter were swept 5 or more times during each year. Rural roads with ditches were also swept when debris was noted by staff or called in by residents. approximate amount of solids collected (tons or cubic yards): 5,900 cubic yards. Describe in **Appendix B** the procedures used and schedules for street sweeping. If no street sweeping is performed, explain:

4. Describe in **Appendix B** the municipality's procedures for roadway snow removal and de-icing. Provide information on what practice and procedures the municipality has implemented in consideration of water quality impacts from snow removal and de-icing. Include an estimate of the annual amount of salt and/or sand used for roadway de-icing.

5. Does the municipality haul snow to off-site disposal locations?  Yes  No

If yes, provide in **Appendix B** the location of all off-site snow disposal locations and describe what practices and procedures are used to protect water quality from snow and ice melt from the disposal site.

6. Does the municipality own or operate salt storage facilities?  Yes  No

If yes, provide in **Appendix B** the locations of all salt storage facilities. Are all salt storage facilities managed in accordance with Chapter TRANS 277, Wis. Adm. Code?  Yes  No

7. Does the municipality provide curbside pickup service for leaves, yard waste, and grass clippings?  Yes  No  
If yes, approximate amount of material collected (tons or cubic yards): 1198 tons

8. Describe in **Appendix B** the municipality's procedures for the collection of leaves, yard waste, and grass clippings, and/or instruction to citizens for on-site management of these items. Provide the location of sites used by the municipality or citizens for the disposal of leaves, yard waste, and grass clippings.

9. Describe in **Appendix B** the municipality's policies and procedures for the use and application of lawn and garden fertilizers on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.

10. Describe in **Appendix B** any local program the municipality employs to regulate the private use of lawn and garden fertilizers.

11. Include in **Appendix B** an assessment of the effectiveness of the municipality's pollution prevention efforts through the municipal pollution prevention program.

**g. Developed Urban Area Standard**

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

Model used: SLAMM Version: 10.1 Reduction %: 43% as of Sep 2014

In **Appendix B**, please list or reference all practices that are currently in place that will be used to meet the TSS reduction percentage reported above. Additionally, please describe any maintenance activities that have occurred for these practices in 2013-2014.

2. Has the municipality completed an evaluation of all municipal owned or operated structural flood control facilities to determine the feasibility of retrofitting to increase TSS removal?  Yes  No If yes, describe in **Appendix B**.

**V. STORM SEWER SYSTEM MAP**

City of Madison only:

a. Has any municipality failed to submit its hard copy changes for the storm sewer system map by January 31, 2013?  
 Yes  No If yes, list municipalities:

b. Attach in **Appendix C** a copy of the updated storm sewer system map.

All municipalities:

c. Has the municipality updated and maintained documentation of all storm sewer outfalls from its MS4 to waters of the state?  
 Yes  No

**VI. 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/org/water/wm/wqs/orwers/>)  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, 22 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/org/water/wm/wqs/303d/303d.html>).  Yes  No

If yes, identify the following information in **Appendix D**:

- Impaired Waterbody to which the MS4 discharges.
  - Description of actions municipality has taken to comply with section A(13) of the MS4 permit for discharges of pollutant(s) of concern to an impaired waterbody.
- c. In **Appendix D**, identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.
- d. In **Appendix 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:

#### **VII. ADDITIONAL INFORMATION**

- a. Provide in **Appendix E** a description of any revisions or proposed revisions to any element of the municipality's storm water management program.
- b. Provide in **Appendix E** an updated listing and contact information for any new industrial facilities that may be regulated under Subchapter II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period.
- c. Provide in **Appendix E** a summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of.

d. Complete the fiscal analysis table provided below.

Program Element	2013 Annual Expenditure	2014 Annual Expenditure	2015 Budget	2016 Budget	Source of Funds
<b>Public Education and Outreach</b>	\$25,000	\$6,000	\$6,000	\$6,000	Stormwater Utility, DNR Planning Grants
<b>Public Involvement and Participation</b>	\$10,000	\$1,500	\$1,500	\$1,500	Stormwater Utility, DNR Planning Grants
<b>Illicit Discharge Detection and Elimination</b>	\$3,000	\$3,000	\$3,000	\$3,000	Stormwater Utility
<b>Construction Site Pollution Control</b>	\$9,000	\$9,000	\$9,000	\$9,000	Stormwater Utility
<b>Post-Construction Site Storm Water Management</b>	\$4,000	\$6,000	\$7,000	\$8,000	Stormwater Utility
<b>Municipal Pollution Prevention</b>	\$110,000	\$185,000	\$260,000	\$375,000	Stormwater Utility, DNR, Dane County, & Yahara WINs Planning & Const. Grants

e. What is the overall estimated annual cost to the municipality for compliance with the permit in 2013? \$161,000 2014? \$210,500

f. Has the municipality implemented a storm water utility?  Yes  No, but considering  No, and not considering  
 If yes, provide a description of the storm water utility in **Appendix E** and any additional information that will assist the Department of Natural Resources in understanding how the utility works in your municipality.

# **Appendix A**

## **General Information**

**III.a.**

**III.d.**

**III.e.**

**III.g.**

**Appendix B**  
**Storm Water Management Program**  
**IV.a.2 (Dane Co. only)**

- IV.a.3.**
- IV.a.4.**
- IV.b.4.**
- IV.c.1.**
- IV.c.2.**
- IV.c.3.**
- IV.c.4.**
- IV.d.2.**
- IV.d.3.**
- IV.d.5.**
- IV.e.1.**
- IV.e.2.**
- IV.c.4.**
- IV.f.1.**
- IV.f.2.**
- IV.f.3.**
- IV.f.4.**
- IV.f.5.**
- IV.f.6.**
- IV.f.8.**
- IV.f.9.**
- IV.f.10.**
- IV.f.11.**
- IV.g.1.**
- IV.g.2.**

**Appendix C**  
**Storm Sewer System Map**  
**V.b. (City of Madison only)**

**Appendix D**  
**Water Quality Concerns**  
**VI.b.**  
**VI.c.**  
**VI.d.**

**Appendix E**  
**Additional Information**

**VII.a.**

**VII.b.**

**VII.c.**

**VII.f.**

## **APPENDIX A**

### **General Information**

**III.a.** Fitchburg's most recent revision to its Erosion Control and Stormwater Management Ordinance (ECSWM - Chapter 30, Article II) was adopted by the Common Council at their March 25, 2014 meeting and went into effect on April 9, 2014. Draft copies of this ordinance were sent to Eric Rortvedt (WisDNR) and Jeremy Balousek (Dane County Land & Water Resources Department) for review prior to adoption. WisDNR and Dane County agreed that this ordinance met the requirements of NR 151, NR 216, and Dane County Chapter 14. Fitchburg's ECSWM ordinance can be viewed on Fitchburg's web site at:  
<http://www.fitchburgwi.gov/DocumentCenter/View/7796>.

**III.d.** The "Information on Applicability and Filing" flyer for the Erosion Control and Stormwater Management Permit Process available at:  
<http://www.city.fitchburg.wi.us/231/ECSWM-Requirements>. The flyer describes Fitchburg's erosion control and stormwater permit requirements and the process followed for obtaining the applicable permits. The Public Works Department coordinates permit reviews and construction inspections for these permits. Erosion control inspections for single family residential dwellings are handled by the Building Inspection Department via Uniform Dwelling Code (UDC) guidelines.

**III.e.** Key Fitchburg staff members (City Engineer, Environmental Engineer, and GIS Engineering Specialist) are all included in the e-mail correspondence related to the Madison Area Municipal Stormwater Partnership (MAMSWaP) quarterly meetings. Fitchburg's Environmental Engineer is the primary Fitchburg contact attending the quarterly meetings; however the GIS Engineering Specialist also attends occasionally depending on the meeting agenda topics. Copies of the past Annual Reports (2006 through 2008) and Biennial Reports (2009-2010, 2011-2012) have been submitted to Fitchburg's Resource Conservation Commission (RCC), Board of Public Works (BPW), and Common Council. A draft of the 2013-2014 Biennial Report was included in the packet for RCC's February 16, 2015 meeting. This report will also be sent to BPW and Common Council in February or March 2015. Copies of the 2006, 2007, and 2008, 2009-2010, 2011-2012, and 2013-2014 Biennial Reports are posted on the City of Fitchburg's web site at: <http://www.city.fitchburg.wi.us/233/Stormwater-Discharge-Permit>

**III.g.** Developers are notified of construction stormwater performance standards by Public Works in preliminary meetings and plan reviews. The Planning Department works closely with Public Works to incorporate storm water management plans in planning studies, plat development, and land use planning.

**APPENDIX B**  
**Storm Water Management Program**

**IV.a.1 (Dane County only)**

**IV.a.2 (Dane County only)**

**IV.a.3 & 4.** The following articles created in house were incorporated into Fitchburg’s monthly newspaper, *The Fitchburg Star*:

- “Planning for 2013 Earth Day, Arbor Day, & Migratory Bird Day” – Jan 2013
- “Plant Dane! Cost-Share Program” – Mar 2013
- “Spring 2013 Waterway Cleanup” – Mar 2013
- “2013 Stormwater and Sidewalk Projects” – Mar 2013
- “Brush Collection Begins” – Mar 2013
- “Home Compost Bin and Rain Barrel Sale” – Mar 2013
- “Natural Lawn Care in Fitchburg” – Mar 2013
- “Springtime Brings More Than Flowers With Those Showers” – Mar 2013
- “Garlic Mustard and Other Invasive Plant Disposal” – Mar 2013
- “Outdoor Lawn Water Conservation” – May 2013
- “Spring 2013 Waterway Cleanup Thank you” – May 2013
- “Nine Springs Creek Watershed Master Plan Update” – Jul 2013
- “Water, Water Everywhere” – Jul 2013
- “Fall Leaf and Lawn Cleanup” – Sep 2013
- “Nine Springs Creek Watershed Master Plan Update” – Sep 2013
- “Nine Springs Creek Watershed Master Plan Public Involvement Workshop” – Nov 2013
- “Construction Site Erosion Control Reporting Process Update – PermiTrack” – Nov 2013
- “Save Money - Use Less Salt This Winter” – Nov 2013
- “Planning for 2014 Earth Day, Arbor Day, and Migratory Bird Day Events” – Jan 2014
- “Nine Springs Creek Watershed Master Plan Nearly Completed” Jan – 2014
- “Web-based Erosion Control Inspection Process: PermiTrackESC” – Jan 2014
- “Spring 2014 Waterway Cleanup” – Mar 2014
- “Brush Collection Begins” – Mar 2014
- “Fitchburg Kicks Off Water Conservation Campaign” – Mar 2014
- “Spring 2014 Waterway Cleanup Events” – May 2014
- “Springtime Storm Showers Bring More Than Just Flowers” – May 2014
- “Give Your Lawn a Checkup Before You Fertilize” – May 2014
- “Algae in Stormwater Ponds” – Jun 2014
- “Thank You Fitchburg Waterway Cleanup Volunteers!” – Jun 2014
- “Fall Leaf and Lawn Clean Up” – Sep 2014
- “WI Recycling Leader Looks to Water” – Nov 2014
- “Save Money - Use Less Salt This Winter” – Nov 2014

These articles are attached at end of Appendix B.

A total of 32 Fitchburg newsletter articles related to water quality were published in the 2013 and 2014 *Fitchburg Star* newspapers. The *Fitchburg Star* newspapers are distributed to all Fitchburg residents and are also placed on Fitchburg’s web site. The Fitchburg web site

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**Appendix B – Stormwater Management Program**

averages ~300,000 hits per month. The Fitchburg Star newspaper is mailed to all homes, apartments and businesses in Fitchburg, which includes ~11,000 addresses.

**IV.b.4.** The Fitchburg Resource Conservation Commission (RCC) meets 8 to 9 times per year and the meeting agenda includes public appearances which are open to discussion on stormwater or water quality issues. There are occasional public appearances on water quality issues. The Board of Public Works (BPW) meets 12 to 20 times per year and also occasionally includes discussion on stormwater or water quality issues.

Spring waterway clean ups were held on April 20, 2013 and April 19 and 27, 2014. In 2013, over 70 volunteers, including four different clubs, helped Fitchburg staff clean Apache Pond, Dunn's Marsh North Complex, Wildwood Kettle, Syene Road, and waterways along the north portion of the Swan Creek of Nine Springs Neighborhood. Volunteers removed over 25 large garbage bags of trash, 8 bags of recyclables, and approximately 10,000 cubic feet of brush from these areas. In 2014, community members, City of Fitchburg staff, RCC members, elected officials, Brownie Troop 2747, and Girl Scout Daisy Troop 2157 helped collect trash and recyclables at Dunn's Marsh and Yarmouth Greenway. In total, volunteers removed 27 large garbage bags of refuse and 13 bags of recycling from these areas, helping clean up our waterways and improve ecosystem health. Some of the more interesting items collected from these areas include an unopened bottle of champagne, a fire extinguisher, a dog kennel, a bike, carpet and scrap metal.

On May 5, 2013, the City of Fitchburg held a home compost bin and rain barrel sale. The city of Fitchburg utilized this event to educate the public on benefits of composting and using rain barrels to improve stormwater quality.

On April 3, 2014 the City of Fitchburg launched their water conservation campaign at Fitchburg Public Library. The Mayor and City of Fitchburg Staff made water conservation a top priority for 2014. The event covered existing groundwater supplies in Dane County, how to fix your toilet, outdoor water wise landscaping, and featured speakers from the Wisconsin Geologic and Natural History Survey, Benjamin Plumbing, and the City of Fitchburg Department of Public Works.

**IV.c.1.** Stormwater outfalls, release structures, and culverts were inspected for illicit discharges during dry weather periods, May to August. The inspections involved commercial, industrial, and environmentally sensitive areas. Throughout the year the outfall and basin inspections involved a thorough look for evidence of illicit discharge. A computer database holds inspection forms for all outfalls and pond release structures inspected by the City. The form evaluates any discharge observations, outlet conditions, outlet area, and a picture of the structure. A reported illicit discharge will be processed as a work order and attended to by the Public Works Department in a timely manner. Overall, the illicit discharge detection and elimination program has had consistent results in the detection, elimination, prevention, and enforcement of illicit discharges and improper dumping in 2013-2014.

**IV.c.2.** In 2013, a total of 449 stormwater outfalls and pond release structures were inspected for flow and maintenance problems. Of the 449 structures inspected in 2013, 23 required maintenance. In 2014, 472 stormwater outfalls and pond release structures were inspected. Inspectors looked for flow from outfalls and release structures and compared flow to recent

precipitation events. Of the 472 structures inspected in 2014, 76 required some sort of maintenance. The largest source of required maintenance was due to excessive vegetation and associated debris buildup.

**IV.c.3.** In the event of general public calls or e-mails reporting improper disposal of waste or dumping, City staff makes follow-up inspections and/or makes contact with the property owner to verify the issue and identify the appropriate action to be taken. No instances of potential illicit discharge concerns were reported or known to occur in 2013. In 2014, the city investigated and assisted in addressing 4 instances related to potential illicit discharge concerns:

- *Waste Oil, Storm Drains, and Trash in the Roads* - On March 14, 2014 a Fitchburg resident contacted Rick Eilertson via email about multiple complaints of illicit discharges. The resident mentioned concern of potential oil dumping near Crescent Road from a group of people changing their car oil on the road. The resident inquired who to contact if this were to happen again in the future and if oil dumping was a citable offense. Rick Eilertson provided the resident with multiple courses of action and contacts including other Fitchburg staff as well as the DNR Spills Hotline phone number and website. The resident also mentioned trash build up in the streets and storm drains near Red Arrow Trail. The resident cleaned up the debris. Rick Eilertson followed up with a thank you and additional information about providing plastic bags and refuse tags to individuals who clean up public properties.
- *Tabby & Jack's Mobile Grooming Van Possible Tank Dumping near Hatchery Hill Shopping Center* - On April 3, 2014, a Fitchburg resident contacted City of Fitchburg's Rick Eilertson in regards to bubbles forming in a downstream puddle originating near a parked pet grooming van. Rick Eilertson contacted the business about the potential illicit discharge. Tabby & Jack's Mobile Grooming responded by stating they don't groom dogs in the Fitchburg parking lot. They also provided photo evidence of the ingredients labeled on the type of shampoo they use in the van. The company said they also saw the suds forming in puddles. It was determined that the suds did not come from the van, but may have come from a certain product the snow plow company used to remove snow and ice.
- *Waste Oil Containers near Jenewein Street* – On May 27, 2014, a Fitchburg resident spotted two large containers of waste oil on a curb near the 4500 block of Jenewein Street. The resident placed the containers above the curb to prevent cars from hitting them. Rick Eilertson followed up by taking the oil containers to the City of Fitchburg's recycling drop off site. He also knocked on doors in the area to inform them of Fitchburg's recycling drop of site.
- *Oil Leaking from Dumpster at 5636 Longford Terrace* – On August 28, 2014, a Fitchburg resident contacted a City of Fitchburg staff member about oil spilling from a dumpster onto a nearby sidewalk and driveway. Felipe Avila drove out to the site and took photos of the incident. It was confirmed that the rust residue and oily sheen met the illicit discharge criteria. Rick Eilertson contacted Pellitteri Waste Systems, the owner of the dumpsters, and asked that they initiate removal of the dumpster(s) and clean-up activities with the person/organization that contracted for the dumpsters.

**IV.c.4.** The city website, newsletter, and cable access channels all have contact information for residents to report spills or illicit discharges.

**IV.d.2.** For all developments, the City requires an erosion control plan submittal, review, and approval before a Building Permit or Erosion Control & Stormwater Management (ECSWM) Permit is issued. The review process includes a check for compliance with NR 151 standards.

**IV.d.3.** The City inspects construction sites weekly to monthly depending on scope and disturbance schedule of each project. Developments not in compliance with erosion control measures are contacted by the City with a Notice of Non-compliance of the Erosion Control Permit via e-mail or direct phone call to the contractor on site. The contractor is notified that, if the non-compliance is not corrected within three days, a stop work notice will be issued.

**IV.d.5.** In 2013 and 2014, the City issued approximately 50 notices of non-compliance for insufficient erosion control practices and/or incomplete weekly construction inspection forms. No stop work orders were issued during 2013 and 2014. The City issued approximately 40 citations for failure to maintain erosion control during 2013 and 2014. In February 2014 the City began using an on-line weekly erosion control reporting system. In 10 months contractors self-reported 98 instances of ineffective erosion control and repaired the BMP before citations or notice of non-compliance was issued.

**IV.e.1.** For all construction projects adding over 20,000 sf of new impervious area, the City requires a stormwater management plan submittal, review, and approval before construction may commence. The review process includes a check for compliance with NR 151 standards.

**IV.e.2.** Stormwater maintenance agreements are prepared and reviewed prior to construction. The agreements are recorded with the Dane County Register of Deeds and copies are maintained by the Public Works Department. In the event that maintenance or repair complaints are raised or if staff notices that stormwater facilities aren't being maintained properly, the PW Department has the authority to order the property owner to maintain or repair the facility(ies).

**IV.e.4.** If developments do meet post-construction stormwater management standards per the approved plans, a work list with due date is issued to the developer.

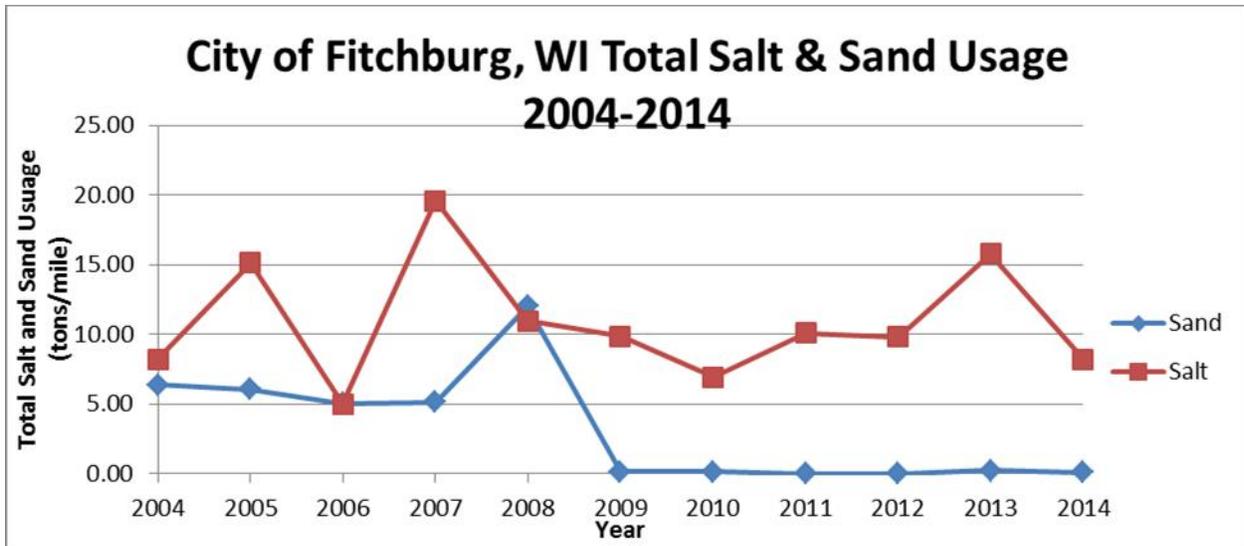
**IV.f.1.** Stormwater facilities owned by the City of Fitchburg include: Apache Pond, Arapaho Greenway, Arrowhead Park and Wet Ponds, Ashbourne Wet Pond and Greenway, Big Bluestem Greenway, Bosshard Pond, Business Park Ponds A (Market/Badger) & B (Market/Executive), Byrne Dry Pond, Cheryl Greenway, Cinque Terra Dry Ponds, Commerce Park Pond, Country Vineyard Greenway, Dunn's Marsh North Complex, Fitchburg Technology Campus Pond, Gunflint Pond, Harlan Hills East and West Ponds, Hatchery Hills Dry Ponds, Hillside Heights Pond, Lacy Heights Pond, Longford Pond, McKee Farms South, North, and Northwest Ponds, McKee Farms Greenway, Nesbitt- Bavaria Pond, Nesbitt Heights Pond and Infiltration Cells, Nesbitt – Limestone Pond, Northern Lights Pond, Oak Meadow Pond, Pembroke Greenway, Pine Ridge Pond and Greenway, Pinnacle Park Pond, Quarry Hill Pond, Quarry Ridge Pond, Red Arrow Pond, Renaissance Pond, Schumann Greenway, Seminole Hills Pond, Seminole Village Pond, and Swan Creek Pond, Swans Creek North Waterway, Syene-Ninebark Pond, Tower Hill Greenway, and Triverton Greenway. Approximately 18 cubic yards of solids were collected from greenways and ponds in 2013 and 2014.

**IV.f.2.** The City standard stormwater collection structures are inlets and are not built with a sump. If plugging or debris problems are found during sweeping operations, the Streets Division will collect the material with the sweeper vacuum or schedule and perform the maintenance

work. The Streets Division also responds to resident calls on inlet maintenance problems. Approximately 10 cubic yards (cy) of solids were collected in 2013 and ~8 cy of solids were collected in 2014 from 11 storm sewer structures.

**IV.f.3.** During 2013 and 2014, the City swept ~86 miles of 2-lane urban streets with curb and gutter and ~10 miles of 4-lane urban streets with curb and gutter. Street cleaning was performed with a Regenerative Air Street Sweeper (Schwarze A7000). ~5,900 cubic yards (cy) of solids were collected in 2013 and 2014. All urban streets with curb and gutter are swept 2 or more times in the Spring, 1 or more times in the Summer and 2 or more times in the Fall. Rural roads with ditches are generally only swept to clear debris noticed by staff or called in by residents.

**IV.f.4.** Fitchburg has taken multiple measures to improve the effectiveness of its winter maintenance techniques. These techniques are focused on maintaining or improving the safety while reducing costs and environmental impacts. Minimizing salt use saves money and also reduces the negative impacts on the environment. Before a storm even hits, Fitchburg staff is monitoring the pavement temperature, air temperature, predicted snowfall amount, predicted wind speeds, and timing of the event. When conditions are favorable, the city will pre-treat roads with a brine (salt water) solution before the snow falls. This solution, which is 80% salt water and 20% beet juice, keeps ice from bonding to the road makes the mechanical plowing of the roads more effective. The City also pre-wets dry salt with brine before application. This pre-wetting accelerates the effectiveness of the salt and reduces the amount of salt scatter off of the roads. Pre-wetting can reduce the amount of rock salt used by 20%. Sand for traction is only used on hills and intersections on an as needed basis when temperatures are too low for salt to be effective. Approximately 1,888 tons of salt and 26 tons of sand were used in 2013. Approximately 994 tons of salt and 7 tons of sand were used in 2014. The City Snow and Ice Control Policy was revised in October of 2013 and is available on line at: <http://www.fitchburgwi.gov/DocumentCenter/View/381>. A graph showing past salt and sand usage is included below.



**IV.f.6.** The City salt storage facility is located at 2373 S. Fish Hatchery Road.

**IV.f.8.** In 2013 and 2014, the City of Fitchburg collected leaves, yard waste, brush, and grass clippings curbside under contract with Pellitteri Waste Systems. The City held four yard waste collection weeks, two each in the Spring and Fall of 2013 and 2014. There were 14 brush collection weeks provided from April through November in 2013 and 14 brush collection weeks provided from April through November in 2014. Residents may also drop off yard waste at the Fitchburg Recycling Drop Off Site at 2373 S. Fish Hatchery Road. Residents are instructed on disposal, composting, or grass cycling methods annually by the City newsletters and the City website (see articles in Page 9 to 30 of this Appendix for these instructions). Fitchburg collected 636 tons of yard waste and brush curbside and 696 tons of yard waste from the Recycling Drop Off Site for a total of 1,332 tons of yard waste collected in 2013. In 2014, 562 tons of yard waste and brush curbside and 826 tons of yard waste from the Recycling Drop Off Site were collected, for a total of 1,388 tons of yard waste. Yard waste and brush collected curbside was taken to Purple Cow Organics' Compost Facility at 2159 Range Trail, which was moved to Meier Road in late Fall 2014. Yard waste collected at Fitchburg's Recycling Drop Off Site was taken to Fitchburg's Compost Facility at 2373 S. Fish Hatchery Road for processing.

**IV.f.9.** Fitchburg staff and contracted crews only use fertilizer with phosphorus on newly seeded turf areas. The crews limit the use of fertilizer on municipally controlled properties (e.g. established medians, athletic fields, and turf lawns around municipal buildings) to fertilizer that contains only nitrogen and potassium. Fertilizer is not used on general park and open space land. This procedure addresses pollution prevention by minimizing the amount of nutrients applied to municipally controlled properties to only those areas that the nutrients are deemed necessary. This procedure is anticipated to minimize the potential nutrient runoff of those properties.

**IV.f.10.** Fitchburg's website, Fitchburg Update, and Fitchburg Star newsletter articles contain information for the responsible use of fertilizers on private lawns and gardens. The Public Works Department promotes the use of a soil test before applying fertilizer during the Erosion Control & Stormwater Management Permit review process. The City also provides a credit on stormwater utility fees for property owners who voluntarily limit or eliminate the use of lawn and garden fertilizers through the Fitchburg Creek Supporter Pledge Program.

**IV.f.11.** Fitchburg's website and Fitchburg Update newsletters appear to be doing a good job of keeping residents, businesses, and contractors informed of Fitchburg's pollution prevention program. Participation in education and outreach activities is very good. Residents with questions are generally complimentary on staff's response to their questions and concerns.

**IV.g.1. Please list or reference all practices that are currently in place that will be used to meet the TSS reduction percentage reported above. Additionally, please describe any maintenance activities that have occurred for these practices in 2013-14.** Fitchburg public stormwater facilities include: Apache Pond, Arrowhead Park and Wet Ponds, Ashbourne Wet Pond and Greenway, Bosshard Pond, Business Park Ponds A (Market/Badger) & B (Market/Executive), Byrne Pond, Commerce Park Pond, Dunn's Marsh North Complex, Fitchburg Technology Campus Pond, Gunflint Pond, Harlan Hills East and West Ponds, Lacy Heights Pond, Longford Pond, McKee Farms South, North, and Northwest Ponds, Nesbitt-Bavaria Pond, Nesbitt Heights Pond and Infiltration Cells, Nesbitt – Limestone Pond, Northern Lights Pond, Oak Meadow Pond, Pine Ridge Pond, Quarry Hill Pond, Quarry Ridge Pond, Red Arrow Pond, Renaissance Pond, Seminole Hills Pond, Seminole Village Pond, Swan Creek Pond. Other Non-Fitchburg owned properties include: Aleo Court Dry Pond, Braeger Court Dry

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Pond, Casa Del Sol Wet Pond, Chapel Valley East Pond, Chapel Valley West Pond, Dunn's Marsh – South (City of Madison and Dane County), Nesbitt – Jung's Pond, Oak Bank Wet Pond, Savannah Oaks Rain Garden, Swan Pond, Syene D Wet Pond (Downtown Fitchburg II LLC), The Crossing Wet Ponds, Waterford Glen Temporary Dry Pond.

**IV.g.2.** The Stormwater Detention Basin Inventory and Analysis, dated December 1997, provided recommendations on various retrofits to existing facilities. Recommendations from this report (Longford Pond enlargement, Seminole Hills Pond conversion to wet pond, Bosshard Pond conversion to wet pond, WIBA dry pond conversion to wet pond (now referred to as Oak Meadow Pond), and McKee Farms West Pond enlargement) have all been completed. The only remaining dry ponds are: Aleo Court dry pond on private property, Lacy Heights dry pond, and Byrne Park dry pond. The City will continue evaluating these and other public properties for conversion or enlargement as it finalizes the Nine Springs Creek Watershed Master Plan in 2015.

**Stormwater Articles appearing in the 2013 *Fitchburg Update***

**Planning for 2013 Earth Day, Arbor Day, and Migratory Bird Day Events**

April 22, 2013, marks the 43<sup>rd</sup> Anniversary of Earth Day and April 26, 2013, is the 141<sup>st</sup> year of celebrating Arbor Day. To commemorate these anniversaries, staff is beginning planning for the following events expected to be held between mid-April and early May 2013:

- 💧 Annual Waterway Cleanups of Fitchburg’s stormwater facilities and creeks
- 💧 Biking, Walking, and/or Paddling Tours through the Nine Springs Creek Watershed
- ♻️ Electronics Recycling Event for computers, monitors, etc.
- ♻️ Shred Day Event for shredding and recycling confidential paper documents
- ♻️ Compost Bin & Rain Barrel Sale
- Spring Community Cleanup Day of Fitchburg Parks and City Hall
- Arbor Day / Earth Day / Migratory Bird Day Celebration - Tree Planting in Fitchburg Parks (Saturday, May 4, 2013), McKee Farms Park Tree Walk & Migratory Bird Day Celebration

If you have ideas on any of these activities that you or your neighborhood association can get involved in, please contact Rick Eilertson, Fitchburg Environmental Engineer, at 270-4264, [rick.eilertson@city.fitchburg.wi.us](mailto:rick.eilertson@city.fitchburg.wi.us) or Ed Bartell, Fitchburg Urban Forester/Naturalist, 270-4289, [ed.bartell@city.fitchburg.wi.us](mailto:ed.bartell@city.fitchburg.wi.us).

Further information on the 2013 Earth Day, Arbor Day, and Migratory Bird Day Events will be included in the March 2013 Fitchburg Update. Final details will be posted at [www.city.fitchburg.wi.us](http://www.city.fitchburg.wi.us) closer to the event.

**2013 Plant Dane! Cost-Share Program Helps Homeowners Purchases Native Plants for their Rain Gardens and Yards**

Now in its 9<sup>th</sup> year, the Plant Dane! cost-share program provides homeowners, schools and nonprofit organizations with native plants at reduced prices to establish rain gardens, native plantings and prairie restoration through a gift from the Graham-Martin Foundation. The Plant Dane! Program has provided tens of thousands of plants, resulting in hundreds of acres being planted with native species throughout Dane County.

Many find replacing turf and ornamental plants with plant species native to Wisconsin a rewarding landscape alternative. Once established, natives do not require



**You can make a difference...**

the maintenance and watering inputs that turf and ornamentals need. Native wildflowers bloom season round and provide great habitat value for beneficial insects and birds.

Plants are \$1.80 each. Each species must be ordered in multiples of four. Program details and order forms are available online at [www.myfairlakes.com/plantdane.aspx](http://www.myfairlakes.com/plantdane.aspx). Participants complete the order form online, then print out the completed form and mail it with a check. All payments with orders must be received no later than March 15, 2013. Plants will be delivered on May 18, 2013.

Fitchburg residents who install and maintain rain gardens are eligible for a reduction in their stormwater utility bill of \$4 to \$12 per year. For more details, visit [www.city.fitchburg.wi.us/stormwater](http://www.city.fitchburg.wi.us/stormwater).

### **Spring 2013 Waterway Cleanup**

Fitchburg's Spring Waterway Cleanups for 2013 are tentatively planned for Saturday, April 20<sup>th</sup> from 9am until noon, rain or shine.\*

This year's plan calls for cleanups on the north side of Dunn's Marsh along Crescent Road. In addition, there may be a cleanup group in your area, coordinated by your neighborhood association. Anyone interested in being a group leader may contact Rick Eilertson, Fitchburg Environmental Engineer, at (608) 270-4264 or [rick.eilertson@city.fitchburg.wi.us](mailto:rick.eilertson@city.fitchburg.wi.us) to coordinate a cleanup in your neighborhood.

Fitchburg will provide refreshments and a tote bag or T-shirt to participants. Volunteers are encouraged to wear boots and bring work gloves. Please be forewarned: Restroom facilities are often not convenient to the planned cleanup locations.

\*Further details on the Waterway Cleanups will be posted at [www.city.fitchburg.wi.us/stormwater](http://www.city.fitchburg.wi.us/stormwater) closer to the events.

For more information and/or to RSVP for the waterway cleanup events, please contact:  
Rick Eilertson, Fitchburg Environmental Engineer  
[Rick.eilertson@city.fitchburg.wi.us](mailto:Rick.eilertson@city.fitchburg.wi.us)  
608-270-4264

### **2013 Stormwater and Sidewalk Projects**

Tower Hill Greenway – This project includes regrading the greenway within the Tower Hill neighborhood from S. Fish Hatchery Road to McKee Farms Park South Pond. A low flow storm pipe is being installed parallel to the greenway to keep the bottom of the greenway channel drier and less susceptible to erosion. A short segment of storm sewer is also being designed from the greenway to the intersection of Lyman Lane and Jacqueline Drive to improve drainage and reduce ice build-up in the intersection during winter conditions.

Red Arrow Pond & Crescent Road Sidewalk – This project includes the rerouting of existing storm sewer from the intersection of Red Arrow Trail and Crescent Road, easterly ~150' to the east side of the Megan's Bay Condominiums and installation of a small stormwater pond. This project will help alleviate current flooding concerns as well as control water quantity and improve

water quality prior to discharging stormwater into Dunn’s Marsh. Honeysuckle, buckthorn, and box elder were removed from the project area in 2012. DNR has awarded up to \$60,000 in grant funding for this project. Sidewalk is also planned to connect from the sidewalk at Apache Pond westerly to the Megan’s Bay Condominiums.

McKee Road Stormwater & Sidewalk – This project includes storm pipe installation and sidewalk construction on the north side of McKee Road from Chapel Valley Road easterly to Yarmouth Greenway Drive.

Anyone with questions or comments on any of these projects may contact Felipe Avila at [felipe.avila@city.fitchburg.wi.us](mailto:felipe.avila@city.fitchburg.wi.us) or 270-4277.

**Brush Collection Begins April 1<sup>st</sup>**

Residents of single family homes and apartments with up to four-units who receive City refuse & recycling collection from Pellitteri Waste Systems and apartment complexes who pay for City brush collection service will receive fourteen curbside brush collections between April and November.

Brush should be placed on your driveway or terrace but should not be placed in the street. You should not place brush at the curb until the weekend before the Monday of the collection week. Leaving brush at the curb for extended periods, or placing brush at the curb long before the collection can result in a \$177 fine.

Please have brush at the curb by 6:30 a.m. Monday on the week of collection, regardless of which day your refuse and recyclables are collected.

Pellitteri collects brush with a packer type truck. Twigs less than 1/4-inch diameter are considered yard waste and should be disposed of accordingly.

**Brush Collection Requirements**

- The maximum length for brush is 5 feet long. Longer branches will not be collected!
- The maximum branch size is 6 inches in diameter. Larger branches are considered firewood and will not be collected.
- Lay brush perpendicular to the street with the cut end toward the street. Pile brush neatly.
- Do not bring brush to the Recycling Drop Off Site. Violators will receive citations. Fitchburg residents may drop off brush at Purple Cow Organics (2159 Range Trail, Verona) at a reduced rate of \$22/ton. Call (608) 848-4400 for hours and brush preparation requirements.

Please contact Public Works at [publicworks@city.fitchburg.wi.us](mailto:publicworks@city.fitchburg.wi.us) or 270-4260 if you have any questions.

<b>2013 Brush Collection Schedule</b> <b>Week of:</b>
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April 1	August 5
April 15	August 26
April 29	September 16
May 13	September 30
June 10	October 14
June 24	October 28
July 15	November 11

\*Actual collection date may depend on weather

### **Home Compost Bin and Rain Barrel Sale - May 4, 2013**

Home composting is a simple process for reducing waste going into your refuse cart that requires only a little time and effort on your part. Contrary to popular belief, properly maintained compost bins do not smell bad. Rather, they have a pleasant, earthy odor similar to freshly plowed soil.

Most households that compost are able to significantly reduce the amount of waste they set out at the curb. For instance, in a survey of Fitchburg residents who use home compost bins, over 75% of survey respondents composted at least 3/4 of their kitchen wastes. Please click on the Home Composting link at the Organics website ([www.city.fitchburg.wi.us/Organics](http://www.city.fitchburg.wi.us/Organics)) for more information and ideas on composting your food scraps in your own yard.



Fitchburg will be hosting a Compost Bin & Rain Barrel Sale on Sat., May 4<sup>th</sup> from 9am-11am at the Fitchburg Recycling Drop Off Site (2373 S. Fish Hatchery Road). Earth Machine home compost bins (\$45 - normally \$100), System rain barrels (\$55 - normally \$110), Norseman compost turners (\$15), Norseman Kitchen scrap pails (\$7), and Dayton 50-gallon Yardwaste Polybags (\$2 - normally \$6) will be available for sale. The supplies will be sold on a first come, first served basis. Advance registration is recommended by contacting [rick.eilertson@city.fitchburg.wi.us](mailto:rick.eilertson@city.fitchburg.wi.us) or 270-4264 prior to April 10th. Up to 2 FREE Yardwaste Polybags will be available for residents participating in Fitchburg's curbside refuse and recycling program. Visit [www.city.fitchburg.wi.us](http://www.city.fitchburg.wi.us) for more information as the event approaches.

Staff will be on hand to describe proposed changes at Fitchburg's Recycling Drop Off Site and solicit feedback on any suggested improvements from attendees.

If you miss the April 10<sup>th</sup> advance registration deadline, you can stop by to see if there are still any remaining supplies or head to the Dane County Compost Bin & Rain Barrel Sale at the Alliant Energy Center's Olin Avenue parking lot from 9am-1pm. Visit: <http://www.cityofmadison.com/streets/compost/CompostBinSale.cfm> for further details.

For information on other home composting bin options that you can build yourself, visit [www.city.fitchburg.wi.us/solidwaste](http://www.city.fitchburg.wi.us/solidwaste). For information on signing up for Fitchburg's Rain Barrel Rebate (\$5 / 55 gallon volume), visit [www.city.fitchburg.wi.us/stormwater](http://www.city.fitchburg.wi.us/stormwater).

### **Natural Lawn Care in Fitchburg**

By Ald. Steve Arnold, Resource Conservation Commission member



It's the time of year for lawn and garden planning in Wisconsin. The economy hasn't fully recovered, and news of climate change and the cost of oil fill the media. Perhaps this will be the year you try something more "sustainable".

There are many ways to think about sustainability, but my goals for the garden are to minimize all but natural inputs, sunlight and rainwater, and minimize outputs, including waste and storm water runoff. Another reason to avoid synthetic inputs, especially pesticides, is to reduce exposure to children, pets, and beneficial wildlife. To learn more about the dangers of lawn chemicals and safe alternatives, please attend "*Healthy Lawns -*

*Reducing Pesticide and Fertilizer Use*," the Resource Conservation Commission's annual event, on April 4, 2013 from 6:30 - 7:30 pm at the Fitchburg Library.

One strategy for implementing sustainability in your yard is to grow native plants, such as prairie species, instead of a conventional lawn. (You need to apply for a City permit to do this, and the terrace and property boundaries must still be mowed. Objections from a majority of neighbors within 200 feet may cause the application to be rejected. So consider visiting with neighbors to discuss your plans first.)

Instructions for establishing natives often take a literally "scorched earth" approach, with repeated burning, rototilling, or glyphosate (*Roundup*) applications to kill the existing vegetation. You'll need to control erosion during the period the ground is unprotected by vegetation. Your management plan should also deal with vegetation build-up, by annual mowing or less frequent prescribed burning.

A second strategy for implementing sustainability in your yard is organic care of a conventional lawn. This means no chemical fertilizers or pesticides and minimizing energy input and irrigation. I still mow with gasoline, rather than a hand or electric mower, but I mow as infrequently as possible. I forgo irrigation, letting the lawn go dormant each summer.

For several years, I didn't use any fertilizer or pesticides, keeping complaints down from my neighbors by hand-digging dandelions. For the last two years, I've also applied corn gluten in the spring. Corn gluten is a by-product of corn milling, and is both a slow-release nitrogen fertilizer and a natural weed inhibitor. It's available from local vendors of animal feed, and cost less than \$60/year for my relatively large lawn. The lawn has been noticeably greener and there are fewer dandelions to dig.

If you undertake natural lawn care, you'll learn to love clover. Clover, a legume, can fix nitrogen from the air, reducing the need for fertilizer, but getting used to clover in a lawn requires a

change in mindset. The most popular synthetic broadleaf herbicide, 2,4-D, has virtually wiped out clover in America's urban areas as the lawn care industry has spent millions in advertising to demonize clover. To get past this learned bias against clover, remember that the hallmark of a healthy ecosystem is diversity. How many different plant species can you see in your lawn?

So far, I've covered minimizing inputs here. To reduce outputs, use grading to keep rainwater where it falls. Rain gardens increase your yard's capacity for soaking up downpours and infiltrating the water on site, increase hummingbird and butterfly habitat, and reduce the amount of grass to mow. Mulch-mowers make every mowing a treatment of slow-release, organic fertilizer, or clippings can be used to stop weeds around flowers or vegetables, or go into the compost bin. For more on minimizing outputs, watch a video on Fall Leaf and Lawn Cleanup from FACT: <http://goo.gl/RMyzJ>.

Have a pleasant and sustainable growing season!

### **Springtime Brings More than Flowers with those Showers**

Whether March comes in like a lion or a lamb, it also brings spring showers and melting snow. When snow melts and rain falls, it flows across streets, driveways, parking lots and rooftops and transports sand, salt, leaves, oil, trash and many other pollutants directly to storm drains, which eventually ends up in our lakes and streams.

Some folks mistakenly think that water running off streets goes into a sewage treatment plant. But the truth is that it goes right to our lakes and streams.

#### **You Can Help**

There are many things each of us can do to prevent storm water pollution.

- 💧 Use salt sparingly during the winter.
- 💧 Sweep up any excess sand left over from the snow shoveling season.
- 💧 Clean up pet waste year round—flush it down the toilet or collect it in a bucket until you can bury it properly.
- 💧 Keep cars well maintained and repair fluid leaks; but consider walking, public transportation or riding a bike whenever you can.
- 💧 Direct rainwater away from paved areas to lawns or gardens where it can soak in.
- 💧 Keep leaves and grass clippings out of the street. Compost yard waste, debris and leaves.
- 💧 Get a soil test before applying fertilizer to your lawn. Don't pay for something you don't need. If a test shows that your lawn does need fertilizer, apply it according to directions and carefully clean up any spills on paved surfaces.
- 💧 Wash your car on the lawn or at a car wash that sends its used water to the sewage treatment plant.
- 💧 Prevent soil erosion.
- 💧 Don't let anything but rain go down the storm drain or into the ditch.

Go to [www.myfairlakes.com](http://www.myfairlakes.com) for more ideas on how you can help our lakes and streams.

### **Garlic Mustard and other Invasive Plant Disposal**

Many residents and businesses have been identifying and removing garlic mustard and other invasive plants (e.g. Japanese Knotweed, Hedge Parsley, Dames Rocket, Wild Parsnip, etc.) from their property. This is great! But just as important in the eradication of these highly invasive plants is that everyone follow-through on sending these plants to the landfill so the seeds can't mature and start new plants. If you have small amounts, you can just bag them and place in your green refuse cart. For large amounts, you can bag them and place them in the dumpster marked "Yardwaste Bags and Oil Containers Only" at Fitchburg's Recycling Drop Off Site (2373 S. Fish Hatchery Rd.).

### **Outdoor Water Conservation**

Dane County has the highest average water usage per person in the State. Each day in Dane County 69 million gallons of water are drawn from the ground. One of the largest contributions to Dane County's above average water usage is lawn watering. We can help reduce Dane County's water usage by implementing better landscape, lawn watering, and stormwater management practices. Some of these practices are described below.

#### **Landscaping Practices**

- Choose climate-appropriate, drought-tolerant, and native/adapted plant species that are optimal for local conditions.
- Plant shrubs, trees and other vegetation in place of lawns.
- Mulch around your plants with compost or other organic material to help stabilize soil temperatures, prevent weeds, add nutrients and help conserve water.



#### **Lawn Watering Practices**

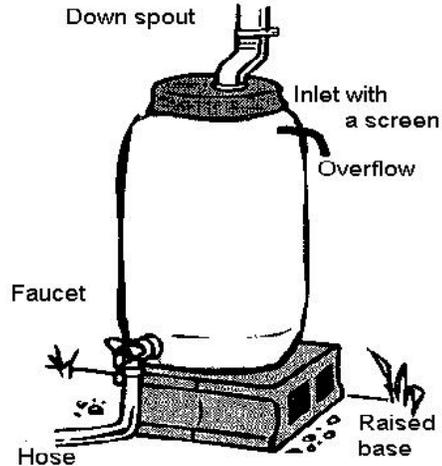
- *Water on Time*- Watering in the early morning increases the amount of infiltration and decreases the amount of evaporation.
- *Don't Overwater*- Overwatering can increase leaching of fertilizers and can harm your lawn's health by promoting the growth of short roots, fungi and weeds. Experts have noted that more than 50 percent of lawn irrigation goes to waste due to evaporation and overwatering.
- *Irrigation systems* – If installing an irrigation system consider a drip irrigation system with water efficient spray heads and rain and soil sensors. They are considered to be the most



efficient automatic irrigation system. The rainfall and the soil sensors allow the sprinklers to activating only when the soil moisture levels are below a certain point.

### Managing Stormwater to Conserve Water Use

- *Rain gardens* – Install rain gardens to collect and filter runoff on your property. Rain gardens are depressed areas usually located near a storm drain. More information about rain gardens can be found at the City of Fitchburg web site.
- *Limit impervious surfaces* - Install a porous pavement or porous concrete driveway to increase infiltration on your property.
- *Capture Rain Water for Lawn Watering* – Install a rain barrel to collect stormwater from downspouts for outdoor watering use.



### Thank You Fitchburg Waterway Cleanup Volunteers!

The City of Fitchburg and the Fitchburg Resource Conservation Commission (RCC) would like to thank all the volunteers who helped with Fitchburg's Earth Day Waterway Cleanups this year. Four different groups of volunteers helped collect trash, recyclables and brush on Sat., April 20<sup>th</sup>. Over 70 volunteers including the Dunn's Marsh Neighborhood Association, Dane County Boys and Girls Club, and other waterway neighbors helped Fitchburg staff clean these areas. Altogether, four different areas were cleaned up, including: Apache Pond, Dunn's Marsh North Complex, Wildwood Kettle, Syene Road, and waterways along the north portion of the Swan Creek of Nine Springs Neighborhood. This year's waterway cleanup was kicked off with a special recognition ceremony for David Martin, who served as a member of Fitchburg's Recycling Committee, Resource Conservation Committee and Resource Conservation Commission from January 1986 to April 2013.



Volunteers removed over 25 large garbage bags of trash, 8 bags of recyclables, and ~10,000 cubic feet of brush from these areas, helping clean up our waterways and improve ecosystem health.

Don't worry if you missed out on this event - there are plenty of other opportunities to help around the community! We welcome any other volunteers interested in helping to keep these

and other waterways clean throughout the year to contact Rick Eilertson, Fitchburg's Environmental Engineer, at [rick.eilertson@city.fitchburg.wi.us](mailto:rick.eilertson@city.fitchburg.wi.us) or 270-4264 for more information.

Utility customers who complete and submit a Fitchburg Creek Supporter Pledge Form (available at: [www.city.fitchburg.wi.us/stormwater](http://www.city.fitchburg.wi.us/stormwater)) may be eligible for a reduction in their stormwater utility bill for pledging to help keep Fitchburg's waterways clean.



### **Nine Springs Creek Watershed Master Plan Update**

The City of Fitchburg has received a grant from the WDNR in order to improve the quality of water within the Nine Springs Creek Watershed. The scope of the project consists of six objectives, completed by Fitchburg staff and consultants, aimed towards producing an overall strategy for water quality improvement and protection for this watershed. These objectives include:

1. Compiling historical information on stormwater facilities in the watershed
2. Holding public involvement meetings
3. Creating a Nine Springs Creek Watershed Master Plan including...
  - a. Necessary maintenance and management projects
  - b. Nutrient management plan for the Nine Springs Golf Course
  - c. Pollutant-reduction strategies
  - d. Updates to water-resource related ordinances
  - e. Site reviews for clean wastewater re-use
4. Updating Fitchburg stormwater mapping
5. Making financial recommendations for the Fitchburg Stormwater Utility
6. Creating stormwater management plan for Dunn's Marsh



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Group Municipal Storm Water Discharge Permit  
WPDES Permit No. WI S058416-3  
**Appendix B – Stormwater Management Program**

The Master Plan has been moving along smoothly throughout the fall, winter and spring. Progress Reports have been put together on a quarterly basis and are available at: [www.city.fitchburg.wi.us/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php](http://www.city.fitchburg.wi.us/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php).

Most of the work to date includes field work, and stormwater modeling work done by City Staff, MSA Professional Services (the consulting firm conducting the stormwater modeling and draft stormwater recommendations) and Stantec (the consulting firm providing recommendations related to vegetation management and ecological restoration). On March 19<sup>th</sup>, 2013, the Dunn's Marsh Neighborhood Association held a meeting and City Staff along with representatives from the City of Madison and MSA presented information and answered questions about stormwater runoff for the watersheds flowing into Dunn's Marsh.



The next phase of the project includes a public information meeting to be held in August 2013 to review the draft recommendations and provide feedback to Fitchburg staff, MSA, and Stantec prior to the final recommendations being put together for a final public involvement meeting anticipated in late Fall or early Winter 2013-14.

To view a more comprehensive progress report, historical and working documents on the Nine Springs Creek Watershed and future meeting times and locations please visit [www.city.fitchburg.wi.us/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php](http://www.city.fitchburg.wi.us/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php) or contact Mac Olsen at 270-4274 or [mac.olsen@fitchburgwi.gov](mailto:mac.olsen@fitchburgwi.gov).

### **Water, Water Everywhere?**

By: Samuel Cooke & Diane Streck, Fitchburg Resource Conservation Commission members

If you read the May 2013 Fitchburg Update, you already know that Dane County has the highest average water usage/person in the state. Did you know that the amount of groundwater pumped out for use in Dane County is significantly more than the amount of groundwater recharging Dane County's aquifers? Since groundwater is Dane County's primary source of drinking water, this is an important issue.

Did you also know that whenever you use water, you are also using electricity? The more water you use, the more electricity used to pump and pressurize the water system and, as a result, more money is spent on energy consumption and more greenhouse gasses are emitted.

Did you also know that Fitchburg has escalating water rates for residential use, i.e. the more water you use, the higher your rate?

When you combine increasing prices and greenhouse gas emissions with diminishing groundwater, conserving water makes a lot of sense.

Easy things you can do to conserve water:

- Raise the height of your mower and water established lawns only when it's absolutely necessary – turf can handle turning brown for a period of time, typically ~4 weeks, where it goes dormant until it gets a thorough soaking. When you decide to water, fully saturate your lawn with ~1" of water in order to promote deep root growth. Last year's drought caused problems because the soil temperature became too high caused by the extended dry period combined with high air temperatures. Watering lawns and gardens is one of the highest uses of water in Fitchburg.
- Mulch your flower/vegetable gardens to reduce evaporation from the soil.
- Collect rainwater to use for garden watering between rain events. Sustain Dane ([www.sustaindane.org](http://www.sustaindane.org)) and other organizations sell rain barrels and even offer installation. Fitchburg offers credits or rebates for conservation efforts such as rain barrels and rain gardens (which promote rainwater infiltration).  
[www.city.fitchburg.wi.us/stormwater](http://www.city.fitchburg.wi.us/stormwater)
- Take shorter showers. Taking 5-minute showers instead of 10-minute showers can save over 10,000 gallons of water per year, per person.
- Don't continually run water while brushing your teeth, washing your hands, rinsing dishes, etc.
- Use water-saving products such as low-flow showerheads, faucet aerators and low-flush toilets.
- Run dishwashers and clothes washers only when full. When purchasing a dishwasher or clothes washer consider ones that are energy *and* water efficient.

Thanks for doing your part to conserve our water now and for future generations.

**Fall Leaf and Lawn Cleanup – Curbside collection on weeks of Oct. 28th and Nov. 11<sup>th</sup>**

The wonderful autumn season is coming and with it the Fall leaf and lawn cleanup. Before hauling your yard waste out for collection consider the natural value of your fallen leaves. Fallen leaves and other yard waste are a valuable resource since they are high in phosphorus, an important nutrient for plant growth and a harmful pollutant for our lakes and streams.

Putting these nutrients to good use and preventing them from entering our storm drains can be done easily by mulching or composting leaves. Mulching your lawn is done by periodically mowing small amounts of leaves and yard waste, which reduces the need for raking and provides a good source of nutrients to your lawn. Shredding the leaves with a mulching mower greatly reduces the volume of leaves and speeds up their decomposition. Raked leaves also make excellent mulch. They can be used to protect roses and other plants over the winter. Adding leaves to your vegetable or flower garden in the fall is a great source of nutrients and a soil conditioner. Any leaves which do not break down over the winter can be tilled into the soil in the spring.

Fall leaves can also be recycled at home by composting. Composting is a simple process and requires little time or effort on the part of homeowners. Compost provides essential nutrients for healthy plant growth. It improves soil structure and helps hold in moisture so you can save money by reducing the amount of water and commercial fertilizers you use on your lawn and garden. Leaves are rich in carbon and useful for balancing nitrogen-rich materials like fresh grass clippings and food waste when you're composting. Stocking your compost piles with

leaves in the fall will give you plenty of carbon rich material to balance out your grass clippings in the spring.

For information on other Leaf and Lawn Cleanup options and techniques, visit [www.myfairlakes.com](http://www.myfairlakes.com), [www.fitchburgwi.gov/solidwaste](http://www.fitchburgwi.gov/solidwaste) or scan the QR code with a smart phone device. You can also stop by Fitchburg City Hall to view the “Leaf and Lawn Cleanup” display in the main hallway. Free “Love your Lakes, Don’t Leaf Them” yard signs, beverage coasters, and “Dane Waters: A Reflection of Us All” dvds are available in the main lobby for you to use and show your love of Fitchburg’s creeks and the lakes and rivers they drain to.

If you are setting your leaves and other yardwaste out for curbside collection this fall, there are three guidelines to be aware of.

1. Keep the leaves contained in a bag or container on the terrace of your yard, not in the street. Although some other municipalities may collect leaves this way, Fitchburg prohibits raking leaves into the street. Raking leaves into the street can clog storm sewers, contribute to water pollution in local lakes and streams, and necessitate more frequent street cleaning. Leaves, grass clippings, plastic bags, and trash in streets can clog storm sewer pipes, resulting in street flooding that can damage property and make street driving hazardous. Yardwaste debris and contaminants in the sewers also harms downstream environments. Nutrients, such as phosphorus and nitrogen found in yard waste encourage the growth of aquatic plants and algae, contributing to the unappealing smell and color of local ponds, lakes and streams while negatively affecting aquatic habitats. Leaves and other nutrients in the street this fall result in green stormwater ponds, lakes and streams next summer.

2. Know the collection dates of the curbside collection so that your leaves are on the curb for as short a time as possible. This year’s fall leaf and yard waste collection will take place the **weeks of October 28<sup>th</sup> and November 11<sup>th</sup>, 2013** for residents of single family homes and apartments with up to four-units who receive City refuse & recycling collection. Pellitteri Waste Systems will begin collection on Monday of each week, and may continue through Saturday (or later depending on weather constraints). Your yard waste will not necessarily be collected on the same day as your pickup for refuse and recycling. **Please have leaves at the curb by 6:30 a.m. on the Monday that collection begins, regardless of which day your refuse and recycling is collected.**

3. Know your yardwaste collection container options. Place leaves and yard waste at the curb in reusable containers or in bags no larger than 50 gallons or 50 lbs. each. **The non-reusable black plastic bags are to be left untied with a container for Pellitteri staff to place them in.** Loose leaves will not be collected. Although the fall cleanup is intended primarily for leaves, other non-woody yard waste will be collected, including grass clippings, weeds, flowers, garden debris, etc.

A photo is included, depicting the most sustainable options (#1) to least sustainable (#4), but still acceptable, curbside yard waste set out options:

- 1 – No Yard Waste set at curb (composted onsite or mulched on lawn – preferred)
- 2 – Reused plastic cart or container, reusable hundreds of times
  - Reusable ~ 30-50 gallon polybag w/ drawstring handles or draw cord (~\$3-10/polybag)
- 3 – Compostable ~30-50 gallon paper bag w/ folded top (~\$0.50-1/bag)
  - Compostable ~ 30-50 gallon plastic-like bags (\$0.60-1.20/bag)

4 – **Untied** Non-recyclable ~30 gallon black plastic bag (\$0.10-0.20/bag)

**Two Reusable 50 gallon polybags** will be available for **FREE** to participating Fitchburg households while supplies last, at the **Fitchburg Compost Bin Sale on Saturday October 19<sup>th</sup> from 9 am to 11 am at the Fitchburg Public Works Maintenance Facility at 2373 S. Fish Hatchery Rd.**

All residents may also take yard waste to the Fitchburg Recycling Drop Off Site. The site is open every day during daylight hours. In addition, Fitchburg residents may drop off yard waste at Purple Cow Organics, LLC at 2159 Range Trail in Verona at no charge. Call (608) 848-4400 for hours and yardwaste preparation requirements.

Please contact Public Works at 270-4260 or by e-mail at [publicworks@fitchburgwi.gov](mailto:publicworks@fitchburgwi.gov) if you have any questions on yard waste collection procedures.



**Nine Springs Creek Watershed Master Plan Update**

The City of Fitchburg has received a grant from the WDNR in order to improve the quality of water within the Nine Springs Creek Watershed. The scope of the project consists of six objectives, completed by Fitchburg staff and consultants, aimed towards producing an overall strategy for water quality improvement and protection for this watershed.

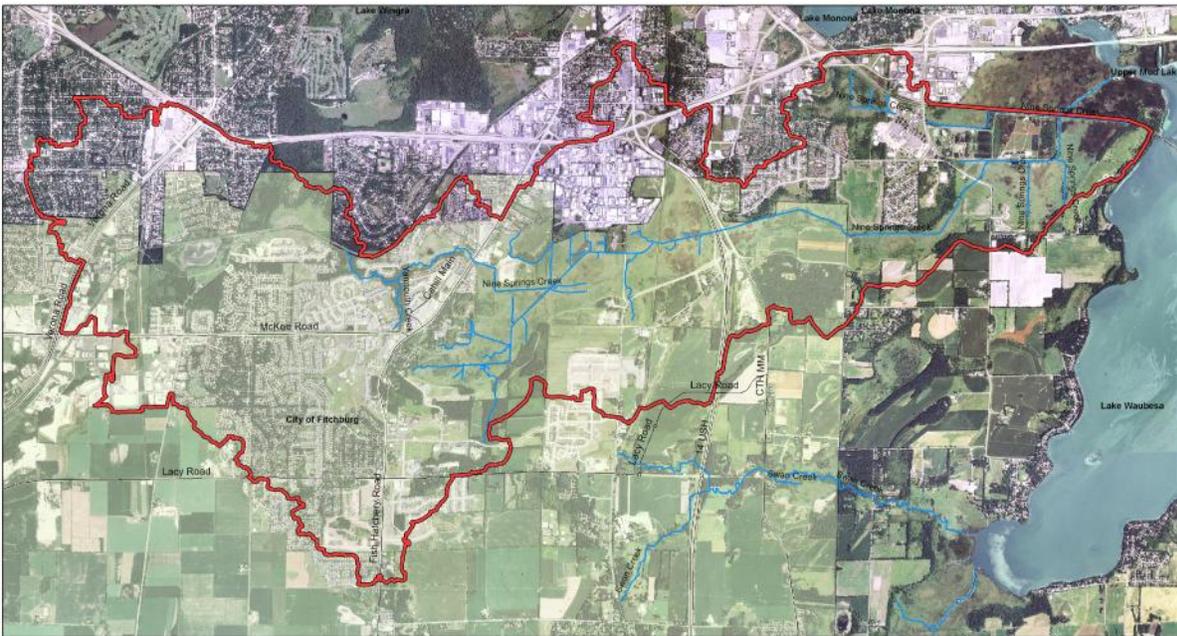
The Master Plan has been moving along smoothly since the beginning of 2012 and is on track to be finished by the end of 2013. Quarterly Progress Reports detailing the work accomplished by the Master Plan Team are available on the Master Plan web page shown below.

The work completed since the last Fitchburg Update includes field work, stormwater modeling and draft recommendations completed by City Staff, MSA Professional Services (the consulting firm conducting the stormwater modeling and draft stormwater recommendations) and Stantec (the consulting firm providing recommendations related to vegetation management and ecological restoration). Several meetings have taken place with the Nine Springs Creek

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**Appendix B – Stormwater Management Program**

Watershed Master Plan team, as well as DNR staff, discussing the modeling process, revised draft recommendations and other future planning efforts. To view the meeting minutes for these meetings, please visit the Nine Springs Watershed Master Plan site.

City staff and consultants have also completed three stormwater facility walk-throughs with residents at the Bosshard, Harlan Hill East, and Longford ponds. The purpose of these walk-throughs is to create site specific management plans for stormwater ponds throughout the Nine Springs Creek watershed. If you and your neighborhood are interested in creating a management plan for a stormwater pond near you, please contact Rick Eilertson and Mac Olsen.



**Nine Springs Creek Watershed**

Legend	
Nine Springs Watershed Outline	Lake Monona
Creeks	Lake Waubesa
	Upper Mud Lake
	City of Fitchburg
	Lake Wingra



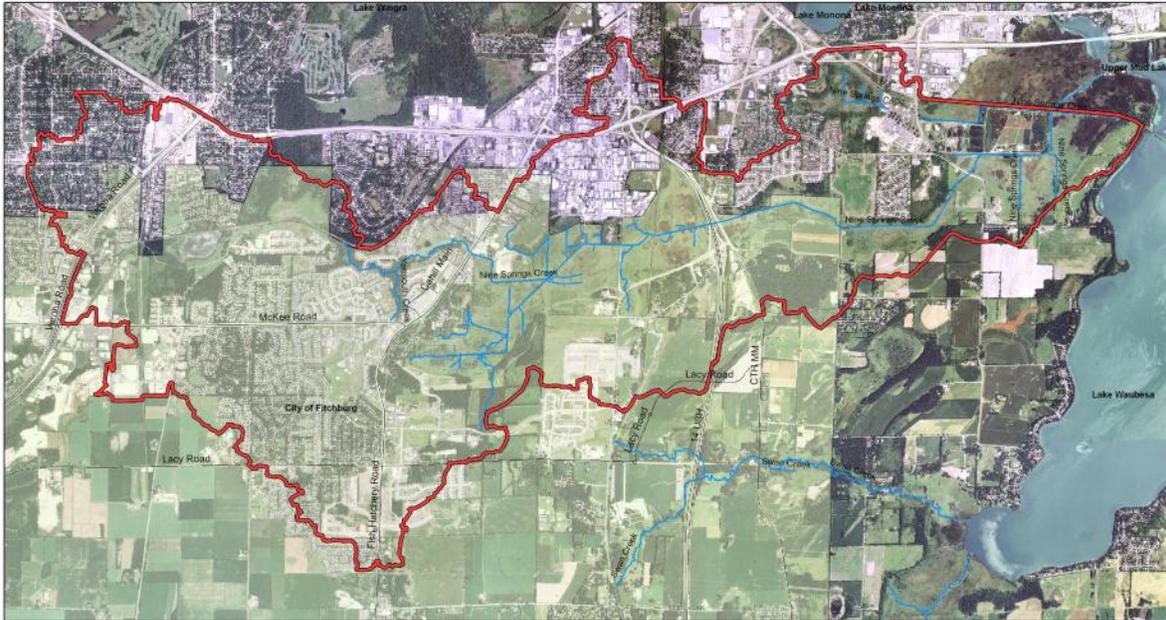
The next phase of the project includes a public information meeting to be held in on September 26, 2013 at 6:30pm the Fitchburg Library Meeting Room A&B to review the draft recommendations and provide feedback to Fitchburg staff, MSA, and Stantec prior to the final recommendations being put together for a final public involvement meeting anticipated in late Fall or early Winter 2013-14.

To view the quarterly progress reports, historical and working documents on the Nine Springs Creek Watershed and future meeting times and locations please visit [www.fitchburgwi.gov/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php](http://www.fitchburgwi.gov/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php) or contact [mac.olsen@fitchburgwi.gov](mailto:mac.olsen@fitchburgwi.gov) or [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov).

**Nine Springs Creek Watershed Master Plan Public Involvement Workshop**  
**Green Thursday, December 12, 2013, 6 - 9PM at the Library Meeting Room**

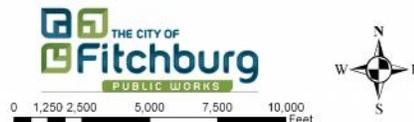
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The Nine Springs Creek Watershed Master Plan is nearly finished! The scope of the project consists of six objectives, completed by Fitchburg staff and consultants, aimed towards producing an overall strategy for water quality improvement and protection for this watershed.



**Nine Springs Creek Watershed**

Legend							
	Nine Springs Watershed Outline		Lake Monona		Upper Mud Lake		City of Fitchburg
	Creeks		Lake Waubesa		Lake Wingra		



The next phase of the project includes a public involvement workshop to be held on December 12 from 6 - 9 PM at the Fitchburg Library Meeting Room A&B. The draft agenda includes the following items:

6:00 PM – Exhibits detailing recommended Best Management Practice (BMP) improvements throughout the watershed can be viewed and staff will be available to discuss the improvement areas. A few of the top priority BMP recommendation locations include McKee Farms Park, Dunns Marsh, the Nine Springs Golf Course, and Seminole Village Pond.

6:30 PM – An overview of the Nine Spring Creek Watershed Master Plan will be presented by Rick Eilertson, the City of Fitchburg's Environmental Engineer.

7:00 PM – The stormwater modeling process and the results of the modeling process will be presented by Eric Thompson, MSA Professional Services.

7:30 PM – Vegetation Management tools for ecological and stormwater quality improvements will be presented by Steve Banovetz, Field and Stream Restorations.

7:45 PM – PermiTrack, a new web based construction site erosion control reporting process will be presented by Jeff Mazanec from R.A. Smith. PermiTrack will enable easier and quicker construction site inspection reporting by builders, contractors, and consultants and also provide the public with the ability to view the web-based inspection reports and condition of the construction sites.

8:00 PM – Information about volunteer stream monitoring in the Rock River Basin will be presented by Nancy Sheehan.

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8:15 PM - Exhibits detailing recommended Best Management Practice (BMP) recommendations throughout the watershed can be viewed and staff will be available to discuss the improvement areas.

More information can be viewed at: [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater) and clicking “Nine Springs Watershed Master Plan” or by contacting [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov) or 270-4264.

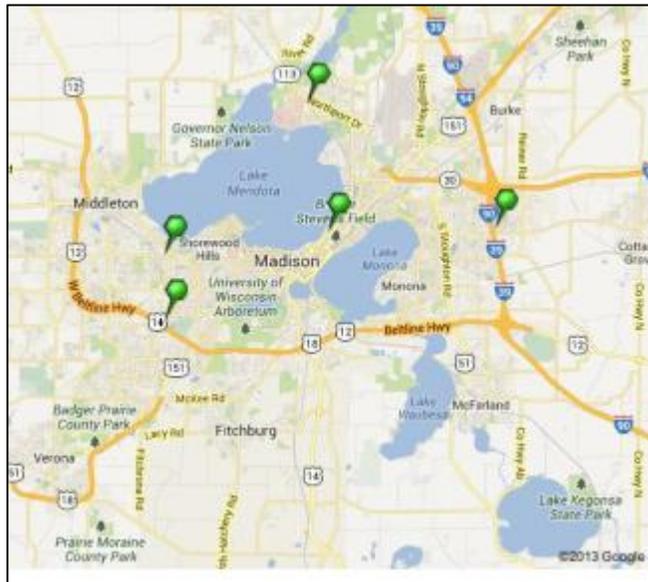
We hope to see you all at this great Green Thursday event!

### **Construction Site Erosion Control Reporting Process Update – PermiTrack**

The City of Fitchburg Stormwater Utility is updating and improving its erosion control permitting process for 2014 by employing a new reporting system called PermiTrack. PermiTrack is a web tool that provides City staff and permittees the ability to load and view erosion control permit and inspection information electronically. Using a hand-held tablet, smart phone or laptop, permittees and City staff can visit a site and perform the following:

- Create an inspection report
- Take and save photos
- View the site’s erosion control inspection history
- Record observations that are automatically entered into a database.

Entering the inspection data using an electronic device eliminates the need for paper forms to track and file, making the process more efficient and sustainable. PermiTrack also provides public access to the information through a public map interface. This public interface allows users to view all active construction projects’ key information and saved inspection records.



Improving the erosion control permitting process with PermiTrack also means that problems can be reported and resolved quickly. By using the PermiTrack tool, the City can quickly alert the responsible person of the erosion control permit to conduct a site visit or to complete other actions to maintain permit compliance.

Training sessions will be held with City Staff, Contractors, and Consultants in December and a brief overview for the public will be presented at the Green Thursday, Dec. 12, 2013 Nine Springs Creek Watershed Master Plan Public Involvement Workshop at the Fitchburg Public Library between 6 and 9pm. Please feel free to visit [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater) to view more information on the PermiTrack implementation.

Save Money – Use Less Salt this Winter

Salt and sand contribute greatly to lake and stream pollution. Once it's spread on parking lots, streets, sidewalks and driveways, it's on its way to the nearest lake or stream and cannot be recovered. Fifty pounds of salt (one large bag) can pollute 10,000 gallons of water—which is equivalent to one teaspoon in a five-gallon bucket of water. Municipalities are working to cut salt use while still keeping streets safe. So, let's all save money this winter with these helpful tips and help the lakes and streams at the same time.



- Always use a shovel first, especially if the pavement temperature is 32°F or more—don't waste money on deicers.
- Reserve deicers for ice, not snow. Shovel as soon as possible so that wet, heavy snow doesn't have the opportunity to turn to ice.
- All salt is not created equal. Various types of deicers perform differently at different temperature ranges. The most common and cheapest is sodium chloride ("rock salt"), but doesn't work when the pavement is colder than 15°F. Magnesium chloride and calcium chloride cost more, but you'll use less and it works in colder temps.
- Consider getting a pavement thermometer (~\$30) to help determine pavement temperatures, which can vary widely depending on how much sun shines on your driveway. (Plus, they're kind of fun to play with.)
- Measure your sidewalk and driveway so you know how much you need. A general guideline is to use 1-3 cups of salt per 1,000 square feet. Save money by using only what is needed.
- Apply liquid salt to the pavement before the storm and shovel a little while it's snowing. After the storm, shovel before using any salt. Most times, you won't need any. Use deicers on ice, don't waste it on snow.
- You can use 30% less deicer if you wet

- your salt with some water before applying it.
- While salt is sometimes mixed with sand to keep the sand from freezing into a solid block, it's not a good idea to use both at the same time on your sidewalk. The salt will melt the ice, but when it refreezes, the sand will be frozen below the surface where it can't do any good. Choose one or the other. Try removing the ice by hand first before using either sand or salt.

- If you have an area that tends to ice up, consider making it a priority to remedy next summer so you won't need to deice in the future.

**Be a “Label Reader”!**

Read the label on the ice melt product so that you know exactly what you are spending your hard-earned cash on. If the bag doesn't say otherwise, it's probably sodium chloride, but you're better off using something that says exactly what's in the bag. Some products claiming to be “green” or “pet safe” are simply chloride compounds. You can always ask for the Material Safety Data Sheet (MSDS) for the product—it will show percentages so that you can see if you are paying for pretty packaging of rock salt. And while you're reading, be sure to follow the application rates. You need much less of some products than others, so be sure not to waste money by over applying.

<b>Labeled as:</b>	<b>Works Down to:</b>	<b>Approximate Cost</b>	<b>Pros/Concerns</b>
Calcium Chloride	-25°F	\$35 for 50 pounds	Use much less than rock salt, chloride impacts; may damage concrete
Magnesium Chloride	5°F	\$30-\$35 for 50 pounds; \$15-\$20 for 20 pounds	less toxic than calcium chloride and less damaging to concrete and pavement, but may corrode metals over time
Sodium Chloride (“rock salt”)	15°F	\$6 for 25 pound bag	Chloride impacts
Calcium Magnesium Acetate (CMA)	25 °F	\$20 for 50 pounds	No chlorides; less toxic
Potassium Chloride	25°F		need to use more than rock salt; works slower than calcium chloride, safer on concrete
Sand	No melting effect	\$5 for a 20 lb bag	Not a deicer; for traction only; do not use with salt; accumulates in streets, lakes and streams; needs to be swept up, easily tracked into buildings

*Urea and Amide/Glycol are other deicing products that are chloride free and touted as pet/kid/environmentally friendly, but generally are not as effective as chlorides. However, when combined with shoveling first, can be a useful alternative.*

*The Madison Area Municipal Storm Water Partnership is working with the Rock River Stormwater Group to reduce the amount of pollution making its way to our lakes and streams. The Yahara chain of lakes and the Yahara River both ultimately drain to the Rock River. Both groups thank you for helping to Renew the Rock by reducing stormwater pollution throughout the Rock River area. Learn more at [www.myfairlakes.com](http://www.myfairlakes.com) and [www.renewtherock.com](http://www.renewtherock.com).*

**Stormwater Articles appearing in the 2014 Fitchburg Update**

**Planning for 2014 Earth Day, Arbor Day, and Migratory Bird Day Events**

April 22, 2014, marks the 44<sup>th</sup> Anniversary of Earth Day and April 25, 2014, is the 142<sup>nd</sup> year of celebrating Arbor Day. To commemorate these anniversaries, staff is beginning planning for the following events expected to be held between mid-April and early May 2014:

- 💧 Annual Waterway Cleanups of Fitchburg's stormwater facilities and creeks
- 💧 Biking, Walking, and/or Paddling Tours through the Nine Springs Creek Watershed
- ♻️ Electronics Recycling Event for computers, monitors, etc.
- ♻️ Shred Day Event for shredding and recycling confidential paper documents
- ♻️ Compost Bin & Rain Barrel Sale
- Spring Community Cleanup Day of Fitchburg Parks and City Hall
- Arbor Day / Earth Day / Migratory Bird Day Celebration - Tree Planting in Fitchburg Parks (Saturday, May 3, 2014), McKee Farms Park Tree Walk & Migratory Bird Day Celebration
- Nine Springs Birding Event – Fri. Evening, May 9 ([www.madisonaudubon.org](http://www.madisonaudubon.org))

If you have ideas on any of these activities that you or your neighborhood association can get involved in, please contact Rick Eilertson, Fitchburg Environmental Project Engineer, at 270-4264, [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov) or Ed Bartell, Fitchburg Urban Forester/Naturalist, 270-4289, [ed.bartell@fitchburgwi.gov](mailto:ed.bartell@fitchburgwi.gov).

Further information on the 2014 Earth Day, Arbor Day, and Migratory Bird Day Events will be included in the March 2014 Fitchburg Update. Final details will be posted at [www.fitchburgwi.gov](http://www.fitchburgwi.gov) closer to the event.

**Nine Springs Creek Watershed Master Plan Nearly Completed**

Fitchburg staff and consultants are putting the finishing touches on the Nine Springs Creek Watershed Master Plan. This Master Plan has been funded by a \$75,000 grant received from the Wisconsin Department of Natural Resources (WDNR) as well as funding by the Fitchburg Stormwater Utility. Work began in the summer of 2012 and is nearing its completion now at the beginning of 2014. The scope of the project consisted of six objectives, completed by Fitchburg staff and consultants, aimed towards producing an overall strategy of ecological and water quality improvement and protection within the Nine Springs Creek Watershed.

The first objective was to compile historical information on stormwater facilities in the watershed. This was completed by scanning previous reports, studies, articles, and books with information pertaining to the Nine Springs Creek Watershed. Each document was reviewed and important recommendations were summarized within the Nine Springs Creek Watershed Master Plan. In total, 32 historical plan documents were scanned and are available electronically online on the Master Plan web page at: <http://www.fitchburgwi.gov/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php>.

The second objective was to hold public involvement meetings. The first public involvement meeting was a Stakeholder Kick Off Meeting held on August 16, 2012. The meeting presented

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information on the Nine Springs Creek Watershed and the objectives of the Master Plan. The second meeting was held on September 26<sup>th</sup>, 2013 where Fitchburg staff and consultants presented the preliminary results and recommendations from the reconnaissance efforts and stormwater modeling of the watershed. The third public involvement meeting was held on December 12<sup>th</sup>, 2013. This final public involvement workshop consisted of several presentations about the work completed, and the new programs and recommended plans for the watershed. In addition to the three public involvement meetings and workshop, four onsite stormwater facility walk-throughs were completed at Bosshard Pond, Harlan Hills East Pond, Longford Pond, and McKee Farms Park ponds.

The third objective is to create a Nine Springs Creek Watershed Master Plan. The master plan report consists of a description of the watershed, summaries of previous reports and their recommendations, work completed for the watershed modeling and reconnaissance, financial recommendations, regulatory recommendations, and watershed management recommendations. A draft document can be accessed at the Master Plan web page listed above.

The fourth objective was to update Fitchburg stormwater mapping system. This objective was completed by first collecting and organizing as-built plans for each stormwater facility and connecting the as-built plans with Fitchburg's computerized stormwater system inventory. Onsite stormwater facility inspections were then completed to supplement any missing or incomplete data from the asbuilt plans.

The fifth objective was to make financial recommendations for the Fitchburg Stormwater Utility. Stormwater Utility rate recommendations were provided by Trilogy Consultants and the recommendations were incorporated into the Nine Springs Creek Watershed Master Plan. City staff also recommendations which provided adjustments to Stormwater Credit amounts and added categories to the Creek Supporter Form.

The last objective of the Nine Springs Creek Master Plan was to create a stormwater management plan for Dunn's Marsh. Stantec and MSA's provided detailed analysis of Dunn's Marsh's ecological, hydraulic, and hydrologic health. The analysis results provided recommendations which are presented within the Nine Springs Creek Watershed Master Plan.

The Nine Springs Creek Watershed Master Plan is a comprehensive and detailed watershed study, which involved work conducted by MSA Professional Services, Stantec and City staff and also involved the participation and feedback from many stakeholders and Fitchburg residents. To view the detailed progress reports, historical and working documents on the Nine Springs Creek Watershed please visit:

[www.fitchburgwi.gov/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php](http://www.fitchburgwi.gov/departments/cityHall/publicWorks/stormwater/NineSpringsMasterPlan.php)  
or contact Rick Eilertson at 270-4264 or [Rick.Eilertson@fitchburgwi.gov](mailto:Rick.Eilertson@fitchburgwi.gov).

#### **Fitchburg Initiates Web-based Erosion Control Inspection Process: PermiTrackESC**

One method of protecting our streams and lakes from sediment runoff is using erosion control best management practices (BMPs) on construction sites. These practices can be as simple as adding a stone tracking pad to a job site entrance to knock the mud off of tires as vehicles leave a construction site, or as complex as a sediment pond to settle out mud from stormwater before it leaves the site.

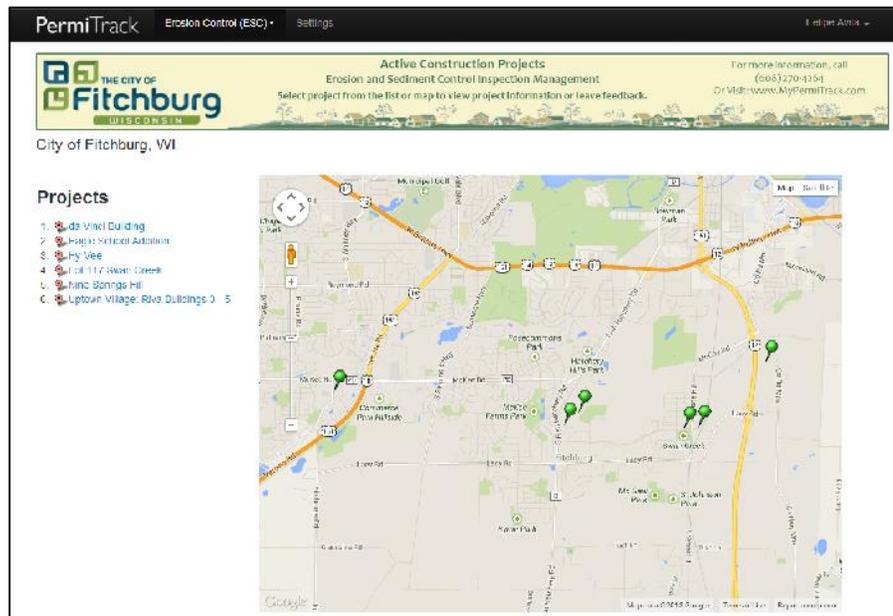
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In a typical year Fitchburg will have anywhere from 15 to 30 commercial/plat construction projects underway. Keeping track of what needs to be done for a particular project and making sure all projects are in compliance with their permit can be challenging. To meet this challenge Fitchburg is partnering with SEH Technology Solutions and RA Smith National to implement a web-based erosion control inspection process

called PermiTrack. PermiTrackESC (<https://www.mypermitrack.com>) enables property owners or their contactors to file weekly erosion control inspection reports via a mobile device or personal computer (PC) instead of making hard copies that they need to make an extra effort to drop off, fax, e-mail or snail mail to Fitchburg staff. It also gives the property owner, contractor, and Fitchburg staff easy access to the project documents and past reports wherever they can get web access.

Fitchburg staff and contractors will be able to start using PermiTrackESC effective January 1, 2014. To help ease the transition Fitchburg and RA Smith National hosted training for city staff and interested contractors this past December. The training session for contractors is available on line at: <http://factv.city.fitchburg.wi.us/Cablecast/Public/Show.aspx?ChannelID=2&ShowID=2852>



PermiTrackESC will save both contractors and city staff time, and protect our water resources by staying on top of erosion control practices to ensure that they are functioning properly. In

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addition an on line map of active projects and their current status will be accessible to the public. To access the map or if you'd like to learn more about Fitchburg's erosion control practices or PermiTrackESC's use in Fitchburg please visit:  
<http://www.city.fitchburg.wi.us/departments/cityHall/publicWorks/stormwater/ErosionControl.php>  
or contact Felipe Avila at [felipe.avila@fitchburgwi.gov](mailto:felipe.avila@fitchburgwi.gov).

### **Spring 2014 Waterway Cleanup on April 19<sup>th</sup>**

Fitchburg's Spring Waterway Cleanups for 2014 are tentatively planned for Saturday, April 19<sup>th</sup> from 9am until noon, rain or shine.\*

This year's plan calls for cleanups on the north side of Dunn's Marsh along Crescent Road. In addition, there may be a cleanup group in your area, coordinated by your neighborhood association. Anyone interested in being a group leader may contact Rick Eilertson, Fitchburg Environmental Engineer, at [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov) or (608) 270-4264 to coordinate a cleanup in your neighborhood.

Fitchburg will provide refreshments and a tote bag or T-shirt to participants. Volunteers are encouraged to wear boots and bring work gloves. Please be forewarned: Restroom facilities are often not convenient to the planned cleanup locations.

\*Further details on the Waterway Cleanups will be posted at [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater) closer to the events.

### **Brush Collection Begins April 7<sup>th</sup>**

Residents of single family homes and apartments with up to four-units who receive City refuse & recycling collection from Pellitteri Waste Systems and apartment complexes who pay for City brush collection service will receive fourteen curbside brush collections between April and November.

Brush should be placed on your driveway or terrace but should not be placed in the street. You should not place brush at the curb until the weekend before the Monday of the collection week. Leaving brush at the curb for extended periods, or placing brush at the curb long before the collection can result in a \$177 fine.

Please have brush at the curb by 6:30 a.m. Monday on the week of collection, regardless of which day your refuse and recyclables are collected.

Pellitteri collects brush with a packer type truck. Twigs less than 3/4-inch diameter (thumb-size) are considered yard waste and should be disposed of accordingly.

#### **Brush Collection Requirements**

- The maximum length for brush is 5 feet long. Longer branches will not be collected!
- The maximum branch size is 6 inches in diameter. Larger branches are considered firewood and will not be collected.
- Lay brush perpendicular to the street with the cut end toward the street. Pile brush neatly.
- Do not bring brush to the Recycling Drop Off Site. Violators will receive citations.

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Fitchburg residents may drop off brush at Purple Cow Organics (2159 Range Trail, Verona) at a reduced rate of \$22/ton. Call (608) 848-4400 for hours and brush preparation requirements.

Please contact Public Works at [publicworks@city.fitchburg.wi.us](mailto:publicworks@city.fitchburg.wi.us) or 270-4260 if you have any questions.

<b>2014 Brush Collection Schedule</b>	
<b>Week of:</b>	
April 7	August 4
April 21	August 25
May 5	September 15
May 19	September 29
June 2	October 13
June 23	October 27
July 14	November 17
*Actual collection dates may depend on weather	

**Fitchburg Kicks Off Water Conservation Campaign on Thurs., April 3rd**

When: Thursday, April 3, 6:30pm-8:00pm  
Where: Fitchburg Public Library, 5530 Lacy Road

The Mayor and City of Fitchburg Staff have made water conservation a top priority for 2014. Learn about existing groundwater supplies in Dane County, how to fix your toilet, and outdoor water wise landscaping. The event will be held at the City of Fitchburg Public Library and will feature speakers from the Wisconsin Geologic and Natural History Survey, Benjamin Plumbing, and the City of Fitchburg Department of Public Works.

For more information visit: [www.fitchburgwi.gov](http://www.fitchburgwi.gov)

**Spring 2014 Waterway Cleanup Events on April 19<sup>th</sup> & 27<sup>th</sup>**

Fitchburg's Spring Waterway Cleanups for 2014 are planned for Saturday, April 19<sup>th</sup> from 9am until noon and Sunday, April 27 from 1-3pm, rain or shine.\*

The April 19<sup>th</sup> cleanup will start at Apache Pond (4491 Crescent Road). The April 27<sup>th</sup> cleanup will start at the stormwater pond near the McKee Farms Park Splash Pad (2930 Chapel Valley Road). Fitchburg will provide refreshments and a tote bag or T-shirt to participants. Volunteers are encouraged to wear boots and bring work gloves. Please be forewarned: Restroom facilities are often not convenient to the planned cleanup locations.

In addition, there may be a cleanup group in your area, coordinated by your neighborhood association. Anyone interested in being a group leader may contact Rick Eilertson to coordinate a cleanup in your neighborhood. Fitchburg will provide plastic bags for collecting trash and recyclables as well as Refuse Tags if needed.

\*Further details on the Waterway Cleanups will be posted at [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater) closer to the events.

For more information and/or to RSVP for the waterway cleanup events, please contact:

Rick Eilertson, Fitchburg Environmental Project Engineer

[Rick.eilertson@fitchburgwi.gov](mailto:Rick.eilertson@fitchburgwi.gov)

608-270-4264

### **Springtime Storm Showers Bring More Than Just Flowers**

Spring is finally here! The snow has melted and the spring showers have started. When snow melts and rain falls, it flows across streets, driveways, parking lots and rooftops and transports sand, salt, leaves, oil, trash and many other pollutants directly to storm drains, which eventually ends up in our lakes and streams.

Some folks mistakenly think that water running off streets goes into a sewage treatment plant. But the truth is that it goes right to our lakes and streams.

#### **You Can Help**

There are many things each of us can do to prevent storm water pollution.

- 💧 Use salt sparingly during the winter.
- 💧 Sweep up any excess salt and sand left over from the snow shoveling season.
- 💧 Clean up pet waste year round – bag it and put the bagged pet waste in your refuse cart or collect it in a bucket until you can bury it properly.
- 💧 Keep cars well maintained and repair fluid leaks; but consider walking, public transportation or riding a bike whenever you can.
- 💧 Direct rainwater away from paved areas to lawns or gardens where it can soak in.
- 💧 Keep leaves and grass clippings out of the street. Compost yard waste, debris and leaves.
- 💧 Get a soil test before applying fertilizer to your lawn. Don't pay for something you don't need. If a test shows that your lawn does need fertilizer, apply it according to directions and carefully clean up any spills on paved surfaces.
- 💧 Wash your car on the lawn or at a car wash that sends its used water to the sewage treatment plant.
- 💧 Prevent soil erosion.
- 💧 Don't let anything but rain go down the storm drain or into the ditch.

Go to [www.myfairlakes.com](http://www.myfairlakes.com) for more ideas on how you can help our lakes and streams.

### **Give Your Lawn a Checkup Before You Fertilize**

After a long winter under a deep blanket of snow, your lawn is finally visible again, matted and brown. You may be thinking about spring cleaning and maintenance, including an application of fertilizer to ensure lush, green grass this summer. Before you fertilize, test your soil to see what your lawn needs. You may be wasting your time and money, and sending excess nutrients to local waterways where they feed algae and damage fish habitat, if you don't test first.

If your soil already has the right balance of nitrogen, phosphorous and potassium, you don't need to fertilize. To figure out your lawn's needs, send in a soil sample to be



tested. The University of Wisconsin has a soil testing lab right in Madison. Any Wisconsin soil can be submitted for analysis at a cost of \$15/sample. A sample is two cups of soil collected in multiple places from the top 4 inches of your lawn. The laboratory will return a report for each sample indicating soil pH, percent organic matter, phosphorus and potassium analysis. It will also provide recommendations on the addition of lime (for pH) and fertilizer.

Right now is a great time to test—you should have your results in time for a spring application, if one is recommended. You'll find everything you need on the UW soil lab website <http://uwlab.soils.wisc.edu/lawn-garden/> (or google "UW soil testing"), including the submission form and sampling instructions.

Keep your lawn healthy and our area waters clean year round by:

- leaving grass clippings on the lawn
- selecting fertilizers with no phosphorus (unless your soil test results show it's needed; it's the law here in Dane County)
- avoiding weed and feed products
- calibrating fertilizer spreaders correctly
- keeping fertilizer off of paved surfaces
- choosing fertilizers with at least 25%- 50% of the nitrogen in slow release form

The Madison Area Municipal Storm Water Partnership is working with the Rock River Stormwater Group to reduce the amount of pollution making its way to our lakes and rivers. The Yahara chain of lakes and the Yahara River both ultimately drain to the Rock River. Both groups thank you for helping to Renew the Rock by reducing stormwater pollution throughout the Rock River area. Learn more at [www.myfairlakes.com](http://www.myfairlakes.com) and [www.renewtherock.com](http://www.renewtherock.com).

### **Algae in Stormwater Ponds**

With summer sun and heat in full swing, another stormwater side-effect becomes apparent: algae. Algae refers to a large group of plant-like organisms that undergo photosynthesis and grow in water. Algae is often misidentified with aquatic macrophytes, which are aquatic flowering plants, ferns, and mosses. Macrophytes are common in stormwater ponds, streams and wetlands and are classified by four categories floating unattached, floating attached, submerged and emergent seen below.





Common in many of our lakes and ponds, algal growth is accelerated by stormwater runoff collecting nutrient loads of nitrogen and phosphorus found in fertilizers. Not all algae are harmful, but some bacteria do occupy similar habitats as algae and produce certain risks. One of the largest offenders in Wisconsin is “blue-green algae”. Blue-green algae is actually not an algae at all but a photosynthetic bacteria called cyanobacteria growing in nutrient rich lakes and ponds between mid-June and late-September. In some cases, blue-green algae produce toxins that can affect the skin, liver, internal organs, respiratory, and nervous systems. Not all blue-green algae produce these toxins, and it is difficult to distinguish when the toxins are being released. Exposure can come from skin contact, inhalation, and/or ingestion.

Another problem associated with algae are algal blooms, which are rapid increases of algae populations in a lake or pond. Algal blooms result from excess nutrients running off into the water body most notably phosphorus, commonly found in fertilizers. The algal blooms last a short period and produce large amounts of decaying algal which consumes oxygen in the aquatic habitat. Reduced oxygen levels damage the aquatic system and harm other aquatic life.

The City of Fitchburg has actively tested algae samples on stormwater ponds for the last three years with help from Professor Linda Graham at the University of Wisconsin. The ponds sampled over the three years were Swan Creek Pond, The Crossing Ponds, Northern Lights Pond, Arrowhead West & East Pond, McKee Farms North Pond, Longford Pond, Oak Bank Pond and Ashbourne Pond. Most of the ponds sampled had healthy populations of both macrophytes (aquatic plants) and algae. It was only on the ponds with clearer water and lower populations of aquatic plants and algae that cyanobacteria was found.

When there is a balance of aquatic plants and algae harmful cyanobacteria tend not to exist in high concentrations. UW Madison researcher Linda Graham commented “People might think masses of green algae unsightly, but it is far better to have those algae sequestering nutrients from the water, to prevent those nutrients from helping toxic cyanobacteria to grow.” While certain algae sampled was harmless and actually beneficial, we did find some toxic cyanobacteria in some ponds, specifically Swan Creek, The Crossing and Arrowhead West pond, during some of the sampling efforts. Stormwater ponds are not designed for public recreation and should be treated with caution, especially for children and pets.

To view past algae and nutrient sampling results and recommendations for each of the ponds sampled throughout the last three years please visit [www.fitchburgwi.gov/documentcenter/view/441](http://www.fitchburgwi.gov/documentcenter/view/441) or contact [rick.eilertson@fitchburgwi.gov](mailto:rick.eilertson@fitchburgwi.gov).

### **Thank You Fitchburg Waterway Cleanup Volunteers!**

The City of Fitchburg and the Fitchburg Resource Conservation Commission (RCC) would like to thank all the volunteers who helped with Fitchburg's Annual Waterway Cleanups this year. Three different groups of volunteers helped collect trash and recyclables at Dunn's Marsh and Yarmouth Greenway. Community members, City of Fitchburg staff, RCC members and elected officials all helped out, including: Bill Scheuerell, Steve Streck, Paul Lundsten, Mayor Shawn Pfaff, Dorothy Krause, Steve Arnold, Diane Streck, Tony Hartmann, Jan Kucher, Chris Jimieson, Rick Eilertson, Felipe Avila, Kristofer Canto, and members of Girl Scout Daisy Troop 2157 and Brownie Troup 2747 (Jill McNaughton, Leigh Schmidt, Kelli Schmidt, Ellen Osthelder, Sara Osthelder, Allison Schmidt, Lizzie Schmidt, Sydney Schulz, Hannah Schmidt, Emma Yeager, Sophie Hodkiewicz, Isabella Moreau, Audrie Junge, and Lizzy Robinson).



In total, volunteers removed 27 large garbage bags of refuse and 13 bags of recycling from these areas, helping clean up our waterways and improve ecosystem health. Some of the more interesting items collected from these areas include an unopened bottle of champagne, a fire extinguisher, a dog kennel, a bike, carpet and scrap metal.

Don't worry if you missed out on this event - it is a yearly event and there are plenty of other opportunities to help around the community! We welcome any other volunteers interested in helping to keep these and other waterways clean throughout the year to contact Rick Eilertson, Fitchburg's Environmental Engineer, at [Rick.Eilertson@fitchburgwi.gov](mailto:Rick.Eilertson@fitchburgwi.gov) or 270-4264 for more information.



Fitchburg's Stormwater Utility will provide extra bags and/or Refuse Tags to volunteers who clean up Fitchburg waterways and/or road ditches. Also, Stormwater Utility customers who complete and submit a Fitchburg Creek Supporter Pledge Form (available at: [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater)) may be eligible for a reduction in their stormwater utility bill for pledging to help keep Fitchburg's waterways clean.

**Fall Leaf and Lawn Cleanup – Curbside collection on weeks of Oct. 27th and Nov. 17<sup>th</sup>**

The wonderful autumn season is coming and with it the Fall leaf and lawn cleanup. Before hauling your yard waste out for collection consider the natural value of your fallen leaves. Fallen leaves and other yard waste are a valuable resource since they are high in phosphorus, an important nutrient for plant growth and a harmful pollutant for our lakes and streams.

Putting these nutrients to good use and preventing them from entering our storm drains can be done easily by mulching or composting leaves. Mulching your lawn is done by periodically mowing small amounts of leaves and yard waste, which reduces the need for raking and provides a good source of nutrients to your lawn.

Shredding the leaves with a mulching mower greatly reduces the volume of leaves and speeds up their decomposition. Raked leaves also make excellent mulch. They can be used to protect roses and other plants over the winter. Adding leaves to your vegetable or flower garden in the fall is a great source of nutrients and a soil conditioner. Any leaves which do not break down over the winter can be tilled into the soil in the spring.



**Leaf and Small Yardwaste Mulching**

1. Take leaves and yard waste from your beds and lawn and create pile of trimmings.
2. Set mowing height to maximum, and then slowly go back and forth a few times.
3. Rake into mulch for your lawn, flower beds, garden or for your compost pile.

Fall leaves can also be recycled at home by composting. Composting is a simple process and requires little time or effort on the part of homeowners. Compost provides essential nutrients for healthy plant growth. It improves soil structure and helps hold in moisture so you can save money by reducing the amount of water and commercial fertilizers you use on your lawn and garden. Leaves are rich in carbon and useful for balancing nitrogen-rich materials like fresh grass clippings and food waste when you're composting. Stocking your compost piles with leaves in the fall will give you plenty of carbon rich material to balance out your grass clippings in the spring.



**Composting Steps**

1. Purchase a compost bin at the Fall Compost bin and Rain barrel sale at the Fitchburg recycling drop off site.
2. Select a location for your compost bin.
3. Add good composting materials, such as food waste, leaf and small yard waste, and a small portion of soil.
4. Use your compost for your plants, fertilizers, lawn tops and around trees.

For information on other Leaf and Lawn Cleanup options and techniques, visit [www.myfairlakes.com](http://www.myfairlakes.com), [www.fitchburgwi.gov/solidwaste](http://www.fitchburgwi.gov/solidwaste) or scan the QR code with a smart phone device. You can also stop by Fitchburg City Hall to view the “Leaf and Lawn Cleanup” display in the main hallway. Free “Love your Lakes, Don’t Leaf Them” yard signs, beverage coasters, and “Dane Waters: A Reflection of Us All” dvds are available in the main lobby for you to use and show your love of Fitchburg’s creeks and the lakes and rivers they drain to.

If you are setting your leaves and other yardwaste out for curbside collection this fall, there are three guidelines to be aware of.

1. Keep the leaves contained in a bag or container on the terrace of your yard, not in the street.

Although some other municipalities may collect leaves this way, Fitchburg prohibits raking leaves into the street. Raking leaves into the street can clog storm sewers, contribute to water pollution in local lakes and streams, and necessitate more frequent street cleaning. Leaves, grass clippings, plastic bags, and trash in streets can clog storm sewer pipes, resulting in street flooding that can damage property and make street driving hazardous. Yardwaste debris and contaminants in the sewers also harms downstream environments. Nutrients, such as phosphorus and nitrogen found in yard waste encourage the growth of aquatic plants and algae, contributing to the unappealing smell and color of local ponds, lakes and streams while negatively affecting aquatic habitats. Leaves and other nutrients in the street this fall result in green stormwater ponds, lakes and streams next summer.

2. Know the collection dates of the curbside collection so that your leaves are on the curb for as short a time as possible.

This year’s fall leaf and yard waste collection will take place the **weeks of October 28<sup>th</sup> and November 11<sup>th</sup>, 2013** for residents of single family homes and apartments with up to four-units who receive City refuse & recycling collection. Pellitteri Waste Systems will begin collection on Monday of each week, and may continue through Saturday (or later depending on weather constraints). Your yard waste will not necessarily be collected on the same day as your pickup for refuse and recycling. **Please have leaves at the curb by 6:30 a.m. on the Monday that collection begins, regardless of which day your refuse and recycling is collected.**

3. Know your yardwaste collection container options.

Place leaves and yard waste at the curb in reusable containers or in bags no larger than 50 gallons or 50 lbs. each. **The non-reusable black plastic bags are to be left untied with a container for Pellitteri staff to place them in.** Loose leaves will not be collected. Although the fall cleanup is intended primarily for leaves, other non-woody yard waste will be collected, including grass clippings, weeds, flowers, garden debris, etc.

A photo is included, depicting the most sustainable options (#1) to least sustainable (#4), but still acceptable, curbside yard waste set out options:

- 1 – No Yard Waste set at curb (composted onsite or mulched on lawn – preferred)
- 2 – Reused plastic cart or container, reusable hundreds of times
  - Reusable ~ 30-50 gallon polybag w/ drawstring handles or draw cord (~\$3-10/polybag)
- 3 – Compostable ~30-50 gallon paper bag w/ folded top (~\$0.50-1/bag)
  - Compostable ~ 30-50 gallon plastic-like bags (\$0.60-1.20/bag)
- 4 – **Untied** Non-recyclable ~30 gallon black plastic bag (\$0.10-0.20/bag)



All residents may also take yard waste to the Fitchburg Recycling Drop Off Site. The site is open every day during daylight hours. In addition, Fitchburg residents may drop off yard waste at Purple Cow Organics, LLC at 2159 Range Trail in Verona at no charge. Call (608) 848-4400 for hours and yardwaste preparation requirements.

Please contact Public Works at 270-4260 or by e-mail at [publicworks@fitchburgwi.gov](mailto:publicworks@fitchburgwi.gov) if you have any questions on yard waste collection procedures.



**Wisconsin's Recycling Leader Looks to Water**

**Water Conservation Campaign**

Mayor Pfaff and Fitchburg City Staff have made water use and conservation initiatives a top priority for 2014. Located within the Yaraha Lakes Chain and the Rock River Watershed basin, Fitchburg is going above and beyond to ensure our most critical resource remains protected.

In April Fitchburg participated in the Wyland Foundation Mayor's Challenge for Water Conservation, ranking 13<sup>th</sup> amongst communities of similar size. This Challenge encouraged residents to conserve water throughout the year by pledging online. The April kick-off event included information on existing groundwater supplies in Dane County, how to fix your toilet, and outdoor water wise landscaping. The event was held at the City of Fitchburg Public Library

and featured speakers from the Wisconsin Geologic and Natural History Survey, Benjamin Plumbing, and the City of Fitchburg Department of Public Works.

### **Advanced Metering Infrastructure**

The City of Fitchburg Water Utility has also begun installation of an Advance Metering Infrastructure (AMI) system for water meter reading and residential cross connection surveys. These installations and surveys will be completed over a three year period.

As part of the installation of the AMI system, the City will be upgrading all water meters to a newer wireless technology that provides hourly water consumption data. With this upgrade, the City will no longer need to drive by each property to collect meter reads; they will be able to better track water consumption, provide timely and accurate responses to billing questions, and will be able to provide faster customer leak identification.

### **Nine Springs Creek Watershed Master Plan**

In 2011, the Wisconsin Department of Natural Resources (WDNR) created the Rock River Basin Total Maximum Daily Load (TMDL) standard. Several water ways within the Rock River Basin are listed on the state's 303(d) list, including the Yahara River and Nine Springs Creek. With financial support from the Wisconsin Urban Nonpoint



Source Water Pollution Abatement & Stormwater Management Grant Program, the City of Fitchburg has conducted stormwater planning activities to ensure the Nine Springs Creek Watershed meets standards set forth by the Rock River TMDL while also protecting public/private safety. Objectives for the Stormwater Management and Grant Program included:

1. Compile and analyze prior studies of stormwater facilities within the Nine Springs Creek Watershed, with emphasis on Dunn's Marsh;
2. Conduct public involvement meetings and generate community awareness surrounding the Nine Springs Creek Watershed;
3. Create a Nine Springs Creek Watershed Master Plan with proposed stormwater best management practices;
4. Update mapping and Geographical Information Systems (GIS) for stormwater infrastructure; and
5. Determine a long-term rate structure for the stormwater utility.
6. Complete detailed management recommendations for Dunn's Marsh.

### **A Forward Fitchburg**

Fitchburg recognizes the importance water plays in our own individual health, environmental systems, and Wisconsin's economy. As a community, we have committed ourselves to protecting our water resources and supporting the vision of a Forward Fitchburg.

### **Save Money – Use Less Salt this Winter**

Salt and sand contribute greatly to lake and stream pollution. Once it's spread on parking lots, streets, sidewalks and driveways, it's on its way to the nearest lake or stream and cannot be recovered. Fifty pounds of salt (one large bag) can pollute 10,000 gallons of water—which is equivalent to one teaspoon in a five-gallon bucket of water. Municipalities are working to cut salt use while still keeping streets safe. So, let's all save money this winter with these helpful tips and help the lakes and streams at the same time.

- Always use a shovel first, especially if the pavement temperature is 32°F or more—don't waste money on deicers.
- Reserve deicers for ice, not snow. Shovel as soon as possible so that wet, heavy snow doesn't have the opportunity to turn to ice.
- All salt is not created equal. Various types of deicers perform differently at different temperature ranges. The most common and cheapest is sodium chloride ("rock salt"), but doesn't work when the pavement is colder than 15°F. Magnesium chloride and calcium chloride cost more, but you'll use less and it works in colder temps.
- Consider getting a pavement thermometer (~\$30) to help determine pavement temperatures, which can vary widely depending on how much sun shines on your driveway. (Plus, they're kind of fun to play with.)
- Measure your sidewalk and driveway so you know how much you need. A general guideline is to use 1-3 cups of salt per 1,000 square feet. Save money by using only what is needed.
- Apply liquid salt to the pavement before the storm and shovel a little while it's snowing. After the storm, shovel before using any salt. Most times, you won't need any. Use deicers on ice, don't waste it on snow.
- You can use 30% less deicer if you wet your salt with some water before applying it.
- While salt is sometimes mixed with sand to keep the sand from freezing into a solid block, it's not a good idea to use both at the same time on your sidewalk. The salt will melt the ice, but when it refreezes, the sand will be frozen below the surface where it can't do any good. Choose one or the other. Try removing the ice by hand first before using either sand or salt.
- If you have an area that tends to ice up, consider making it a priority to remedy next summer so you won't need to deice in the future.

#### **Be a "Label Reader"!**

Read the label on the ice melt product so that you know exactly what you are spending your hard-earned cash on. If the bag doesn't say otherwise, it's probably sodium chloride, but you're better off using something that says exactly what's in the bag. Some products claiming to be "green" or "pet safe" are simply chloride compounds. You can always ask for the Material Safety Data Sheet (MSDS) for the product—it will show percentages so that you can see if you are paying for pretty packaging of rock salt. And while you're reading, be sure to follow the application rates. You need much less of some products than others, so be sure not to waste money by over applying.

**2013 - 2014 Biennial Report**  
 Group Municipal Storm Water Discharge Permit  
 WPDES Permit No. WI S058416-3  
**Appendix B – Stormwater Management Program**

Labeled as:	Works Down to:	Approximate Cost	Pros/Concerns
Calcium Chloride	-25°F	\$35 for 50 pounds	Use much less than rock salt, chloride impacts; may damage concrete
Magnesium Chloride	5°F	\$30-\$35 for 50 pounds; \$15-\$20 for 20 pounds	less toxic than calcium chloride and less damaging to concrete and pavement, but may corrode metals over time
Sodium Chloride (“rock salt”)	15°F	\$6 for 25 pound bag	Chloride impacts
Calcium Magnesium Acetate (CMA)	25 °F	\$20 for 50 pounds	No chlorides; less toxic
Potassium Chloride	25°F		need to use more than rock salt; works slower than calcium chloride, safer on concrete
Sand	No melting effect	\$5 for a 20 lb bag	Not a deicer; for traction only; do not use with salt; accumulates in streets, lakes and streams; needs to be swept up, easily tracked into buildings

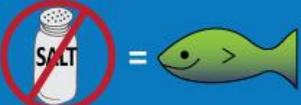
**Love Your Lakes,  
Don't Salt Them**



Using less salt on your sidewalk and driveway this winter shows your love for the lakes.

If you must use a deicer, use it sparingly and make sure you read the label for application rates & environmental effects.

**Don't use salt when you can use a shovel.**



Learn more at  
[myfairlakes.com](http://myfairlakes.com)

*Urea and Amide/Glycol are other deicing products that are chloride free and touted as pet/kid/environmentally friendly, but generally are not as effective as chlorides. However, when combined with shoveling first, can be a useful alternative.*

The Madison Area Municipal Storm Water Partnership is working with the Rock River Stormwater Group to reduce the amount of pollution making its way to our lakes and streams. The Yahara chain of lakes and the Yahara River both ultimately drain to the Rock River. Both groups thank you for helping to Renew the Rock by reducing stormwater pollution throughout the Rock River area. Learn more at [www.myfairlakes.com](http://www.myfairlakes.com) and [www.renewtherock.com](http://www.renewtherock.com).

## **Appendix C**

### **Storm Sewer System Map**

Fitchburg staff submitted revisions to its storm sewer system map to the City of Madison. The City of Madison includes a copy of the updated storm sewer system map in its Biennial Report for compliance with WPDES Permit No. WI S058416-3.

## **Appendix D**

### **Water Quality Concerns**

**VI.b. Impaired Waterbody:** Nine Springs Creek. The following practices were used to improve the water quality discharging into the creek: detention ponds, street sweeping, and public education and outreach for the Nine Springs Creek watershed. A Stormwater Master Plan for Nine Springs Creek was being created until grant funding was removed by the DNR in 2009. A new grant for the Stormwater Master Plan was awarded by DNR in 2010 and subsequently defunded. This grant was awarded again in 2012 and work proceeded on the following tasks:

1. Compile historical information on stormwater facilities in the Nine Springs Creek Watershed,
2. Hold public involvement meetings,
3. Create the Nine Springs Creek Watershed Master Plan,
4. Updating the stormwater system mapping,
5. Prepare financial recommendations for the Fitchburg Stormwater Utility, and
6. Create the Dunn's Marsh Stormwater Management Plan.

Initial recommended stormwater concept plans were sent to DNR in Summer 2013. As meetings progressed with DNR, several issues such as navigability determinations and wetland determinations came up which delayed the final release of the Nine Springs Watershed Master Plan. DNR submitted a letter on January 13, 2015 with their final analysis of navigability and wetland determinations for the various recommended stormwater improvements. Fitchburg staff is in the process of reviewing this letter prior to finalizing the Nine Springs Watershed Master Plan.

**VI.c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period:** Red Arrow Pond was constructed in 2013 (~0% TSS reduction to ~50% TSS reduction in that subwatershed). Pine Ridge Pond was retrofitted from a dry pond to a bioretention pond in 2014 (~0% TSS reduction to ~75% TSS reduction in that subwatershed). The City of Madison also constructed the Renaissance Stormwater Treatment Structure upstream of Dunn's Marsh during December 2014; however, screens weren't installed until 2015 so the actual treatment efficiency won't be reached until the 2015-2016 Biennial Report.

**VI.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:** The City's Stormwater Utility Credit and Rebate program, municipal stormwater facility retrofits (Red Arrow Pond, Pine Ridge Pond conversion), Nine Springs Creek Watershed Master Plan, and improved public education and outreach are actions being taken to improve water quality for receiving waters within and downstream of Fitchburg.

## **Appendix E**

### **Additional Information**

**VII.a. Description of any revisions or proposed revisions to any element of the municipality's storm water management program.** The City is finalizing the Nine Springs Creek Watershed Master Plan to guide future improvements to water quality and hopes to conduct a similar planning process in other urban stormwatersheds.

**VII.b. Updated listing and contact information for any new industrial facilities that may be regulated under Subchapter II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period.** Public Works staff is not aware of any new facilities that would pertain to this section.

**VII.c. Summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of:** The City created a Stormwater Utility in 2002 to fund stormwater activities. The Stormwater Utility is responsible for maintaining and upgrading the City stormwater management facilities. Services include street sweeping, stormwater pond and streambank improvements, and public education and outreach.

Property owners within the Fitchburg with impervious areas >3,700 sf are charged a quarterly or annual fee (depending on whether they're in the urban service area or rural service area). The amount of the fee is based on the total impervious area of the property. Credits and Rebates to this stormwater utility fee are available to property owners. The fees, as well as the available credits, are made available to the public at: [www.fitchburgwi.gov/stormwater](http://www.fitchburgwi.gov/stormwater).