

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ARRA\_Project\_18C WTDT  
**Name:** SEWRPC SWEET Water Trust ARRA 18C  
**Type:** Grant Project  
**Subtype:** ARRA Pass Through Project  
**Status:** COMPLETE  
**Start Date:** 10/01/2009  
**End Date:** 12/31/2010  
**Purpose:** SEWRPC Contract - Supplemental funds for water quality planning in designated management areas; expedite updates for additional urban service areas with intense development pressures; contract with Southeast Wisconsin Regional Planning Commission.  
**Objective:** The Southeastern Wisconsin Regional Planning Commission would pass through the 604 (b) funding to the consultant doing the Kinnickinnic River Watershed Restoration Plan for the Southeastern Wisconsin Watersheds Trust (SWWT). The consultant would also provide the information to Milwaukee Metropolitan Sewerage District to incorporate into their Kinnickinnic River Watercourse Flood Control Study.  
 1) To integrate the use of non-structural best management practices widely known as green infrastructure into the planning and implementation process of the Kinnickinnic Watershed Restoration Plan (WRP) process for two subwatershed: Villa Mann Creek and Holmes Avenue Creek.  
 2) To model using the "blanket approach" of green infrastructure for the two subwatersheds showing where implementation of practices would benefit water quality and quantity in the stream.  
 3) To integrate the use of green infrastructure practices into the Kinnickinnic Watercourse Flood Study for the two subwatersheds.  
 4) To identify areas in the two watersheds where the "blanketing" approach of green infrastructure would benefit water quality and water quantity goals.

**Comments:**

**Outcome:** 1) Completion of the green infrastructure practices "blanketing" modeling results for Villa Mann and Holmes Avenue Creek subwatersheds.  
 2) Incorporation of the green infrastructure practices "blanketing" modeling results into both the Kinnickinnic River WRP and the Kinnickinnic River Watercourse Study  
 3) Identification of green infrastructure practices by area in each of the subwatersheds that show the greatest water quality and water quantity benefit for the stream  
 4) Summarize results in a report on the effectiveness of using a blanket green infrastructure practices approach.  
 5) Recommend a green infrastructure pilot project (if benefits are found through this analysis) to the Southeastern Wisconsin Watershed Trust for implementation.

### Study Design:

### QA Measures:

### People

| Name              | Role        | Status | Start Date | End Date | Organization | Comments |
|-------------------|-------------|--------|------------|----------|--------------|----------|
| Larsen, Elizabeth | COORDINATOR | ACTIVE | 07/07/2010 |          | SEWRPC       |          |

### Project Statuses

| Date       | Reported By      | Status                    | Comments   |
|------------|------------------|---------------------------|--|
| 04/23/2010 | Lisa Helmuth     | Progress: 0-25% Complete  | Contract is signed.  |
| 04/26/2010 | Lisa Helmuth     | Progress: 0-25% Complete  | The Milwaukee Metropolitan Sewerage District (MMSD) issued the Notice to Proceed to HNTB on February 15, 2010. A kickoff discussion was held on March 5, 2010 between HNTB, Tetra Tech, and MMSD to discuss the project tasks and which stormwater best management practices (BMPs) should be used in the proposed water quantity and quality modeling of the Villa Mann Creek and the Holmes Ave Creek subwatersheds. The BMPs selected and the scenarios developed are summarized below in Task 1. The scenarios will be run for both the Holmes Ave Creek and the Villa Mann Creek subwatersheds. |
| 07/01/2010 | Elizabeth Larsen | Progress: 25-50% Complete |  |

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| <b>Date</b> | <b>Reported By</b> | <b>Status</b>              | <b>Comments</b>  |
|-------------|--------------------|----------------------------|--|
| 10/25/2010  | Elizabeth Larsen   | Progress: 75-100% Complete | <p>Tetra Tech and HNTB have completed the modeling of the four scenarios described in Task 1. A draft report summarizing these results was completed on June 4, 2010, and submitted to MMSD for review. MMSD provided initial comments in July 2010 and HNTB incorporated these comments into a final draft report that was submitted on August 20, 2010. This final draft report is currently being reviewed by MMSD.</p> <p><b>Task 1. Develop Scenarios to Evaluate Flood Flow and/or Water Quality Impacts</b><br/>           Scenarios that include low impact development (LID) stormwater management practices were developed for the area east of S. 13 Street in the Holmes Ave Creek subwatershed and for the entire Villa Mann Creek subwatershed. Water quantity and quality impacts were evaluated in the Holmes Avenue Creek subwatershed and water quality impacts were evaluated in the Villa Mann Creek subwatershed. In summary, the following scenarios were developed:</p> <ol style="list-style-type: none"> <li>1. 25% of parking lot areas with storage –apply to 50% of parking lots and use 50% of the area in each for storage. A depth of 4 inch was considered acceptable for the parking lot storage</li> <li>2. 25% of commercial/industrial roofs with storage. A 6 inch depth is used for the roof storage based on the 2020 Facilities Plan State of the Art Report.</li> <li>3. Combine 1 and 2.</li> </ol> <p>In addition, a fourth scenario was developed which replaced parking lot storage with porous pavement in scenario No. 3. All four scenarios built off of the Extreme Measures run from the Southeastern Wisconsin Regional Planning Commission's (SEWRPC) Regional Water Quality Management Plan Update (RWQMUP).</p> <p>This task was completed in the first quarter of 2010.</p> <p><b>Task 2. Run Scenarios</b><br/>           The scenarios described in Task 1 were modeled by Tetra Tech in the second quarter of 2010. The results of these model runs were summarized under Task 3 and are currently being reviewed by MMSD.</p> <p><b>Task 3. Process and Interpret Results</b><br/>           The results from the model runs were summarized in a draft report prepared by Tetra Tech and HNTB and submitted to MMSD. MMSD provided comments to HNTB which they incorporated into the final draft report which was submitted to MMSD on August 20, 2010. This final draft report is currently being reviewed by MMSD. It is anticipated that MMSD's review will be completed and the final draft report will be submitted to SEWRPC by November 1, 2010.</p> <p><b>Project Issues</b><br/>           No issues to date.</p> |
| 10/26/2010  | Elizabeth Larsen   | Progress: 75-100% Complete | <p>Tetra Tech and HNTB have completed the modeling of the four scenarios described in Task 1. A draft report summarizing these results was completed on June 4, 2010, and submitted to MMSD for review. MMSD provided initial comments in July 2010 and HNTB incorporated these comments into a final draft report that was submitted on August 20, 2010. This final draft report is</p>   |

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| Date       | Reported By     | Status   | Comments  |
|------------|-----------------|----------|---|
| 07/08/2011 | MOLLI MACDONALD | Complete | <p>currently being reviewed by MMSD.</p> <p><b>Task 1. Develop Scenarios to Evaluate Flood Flow and/or Water Quality Impacts</b><br/>                     Scenarios that include low impact development (LID) stormwater management practices were developed for the area east of S. 13 Street in the Holmes Ave Creek subwatershed and for the entire Villa Mann Creek subwatershed. Water quantity and quality impacts were evaluated in the Holmes Avenue Creek subwatershed and water quality impacts were evaluated in the Villa Mann Creek subwatershed. In summary, the following scenarios were developed:<br/>                     1. 25% of parking lot areas with storage –apply to 50% of parking lots and use 50% of the area in each for storage. A depth of 4 inch was considered acceptable for the parking lot storage<br/>                     2. 25% of commercial/industrial roofs with storage. A 6 inch depth is used for the roof storage based on the 2020 Facilities Plan State of the Art Report.<br/>                     3. Combine 1 and 2.<br/>                     In addition, a fourth scenario was developed which replaced parking lot storage with porous pavement in scenario No. 3. All four scenarios built off of the Extreme Measures run from the Southeastern Wisconsin Regional Planning Commission's (SEWRPC) Regional Water Quality Management Plan Update (RWQMUPU).<br/>                     This task was completed in the first quarter of 2010.</p> <p><b>Task 2. Run Scenarios</b><br/>                     The scenarios described in Task 1 were modeled by Tetra Tech in the second quarter of 2010. The results of these model runs were summarized under Task 3 and are currently being reviewed by MMSD.</p> <p><b>Task 3. Process and Interpret Results</b><br/>                     The results from the model runs were summarized in a draft report prepared by Tetra Tech and HNTB and submitted to MMSD. MMSD provided comments to HNTB which they incorporated into the final draft report which was submitted to MMSD on August 20, 2010. This final draft report is currently being reviewed by MMSD. It is anticipated that MMSD's review will be completed and the final draft report will be submitted to SEWRPC by November 1, 2010.</p> <p><b>Project Issues</b><br/>                     No issues to date.</p> <p>Final Report finished</p> |

### Project Status Detail

Answer Set: DEFAULT

| Question   | Answer  |
|--|---|
| 1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-June), Q4 (July-Sept): | Q4 ( July - Sept)   |
| 2. Amount expended this time period:   | No request for funding at this time.  |
| 3. Subcontracts or subgrants awarded this period:                                  | Yes, Subcontract was signed and is moving forward.  |
| 4. Number work hours created or maintained to date:                                | NA  |
| 5. Work accomplished this reporting period:  | Tetra Tech and HNTB have completed the modeling of the four scenarios described in Task 1. A draft report summarizing these results was |

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**Question**

**Answer**

completed on June 4, 2010, and submitted to MMSD for review. MMSD provided initial comments in July 2010 and HNTB incorporated these comments into a final draft report that was submitted on August 20, 2010. This final draft report is currently being reviewed by MMSD.

**Task 1. Develop Scenarios to Evaluate Flood Flow and/or Water Quality Impacts**

Scenarios that include low impact development (LID) stormwater management practices were developed for the area east of S. 13 Street in the Holmes Ave Creek subwatershed and for the entire Villa Mann Creek subwatershed. Water quantity and quality impacts were evaluated in the Holmes Avenue Creek subwatershed and water quality impacts were evaluated in the Villa Mann Creek subwatershed. In summary, the following scenarios were developed:

1. 25% of parking lot areas with storage ?apply to 50% of parking lots and use 50% of the area in each for storage. A depth of 4 inch was considered acceptable for the parking lot storage
2. 25% of commercial/industrial roofs with storage. A 6 inch depth is used for the roof storage based on the 2020 Facilities Plan State of the Art Report.
3. Combine 1 and 2.

In addition, a fourth scenario was developed which replaced parking lot storage with porous pavement in scenario No. 3. All four scenarios built off of the Extreme Measures run from the Southeastern Wisconsin Regional Planning Commission?s (SEWRPC) Regional Water Quality Management Plan Update (RWQMPU).

This task was completed in the first quarter of 2010

6. Work goals for coming reporting period:

The scenarios described in Task 1 were modeled by Tetra Tech in the second quarter of 2010. The results of these model runs were summarized under Task 3 and are currently being reviewed by MMSD.

**Task 3. Process and Interpret Results**

The results from the model runs were summarized in a draft report prepared by Tetra Tech and HNTB and submitted to MMSD. MMSD provided comments to HNTB which they incorporated into the final draft report which was submitted to MMSD on August 20, 2010. This final draft report is currently being reviewed by MMSD. It is anticipated that MMSD?s review will be completed and the final draft report will be submitted to SEWRPC by November 1, 2010.

7. Overall project status:

The Milwaukee Metropolitan Sewerage District (MMSD) issued the Notice to Proceed to HNTB on February 15, 2010. A kickoff discussion was held on March 5, 2010 between HNTB, Tetra Tech, and MMSD to discuss the project tasks and which stormwater best management practices (BMPs) should be used in the proposed water quantity and quality modeling of the Villa Mann Creek and the Holmes Ave Creek subwatersheds. The BMPs selected and the scenarios developed are summarized below in Task 1. The scenarios will be run for both the Holmes Ave Creek and the Villa Mann Creek subwatersheds.

8. WDNR Question: Job equivalent Created

**Actions**

| Action | Detailed Description | Start | End Date | Status |
|--------|----------------------|-------|----------|--------|
|--------|----------------------|-------|----------|--------|

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| Action                 | Detailed Description  | Start      | End Date   | Status      |
|------------------------|---|------------|------------|-------------|
| Informational Meetings | Kinnickinnic River Watershed Restoration Plan for the Southeastern Wisconsin Watersheds Trust (SWWT). The consultant would also provide the information to Milwaukee Metropolitan Sewerage District to incorporate into their Kinnickinnic River Watercourse Flood Control Study. | 10/01/2009 | 12/31/2010 | COMPLETE    |
| Rivers Planning Grant  | Kinnickinnic River Watershed Restoration Plan for the Southeastern Wisconsin Watersheds Trust (SWWT). The consultant would also provide the information to Milwaukee Metropolitan Sewerage District to incorporate into their Kinnickinnic River Watercourse Flood Control Study. | 10/01/2009 | 12/31/2010 | IN_PROGRESS |

| Details: | Parameter                    | Value/Amount | Units | Comments |
|----------|------------------------------|--------------|-------|----------|
|          | BMP Implementation           |              |       |          |
|          | I & E Activities             |              |       |          |
|          | PCBs                         |              |       |          |
|          | Permit Modification          |              |       |          |
|          | Report Writeup               |              |       |          |
|          | Total Nitrogen               |              |       |          |
|          | Total Phosphorus             |              |       |          |
|          | Total Suspended Solids       |              |       |          |
|          | Watershed Outreach, Planning |              |       |          |

### Monitoring Stations

| Station ID | Name | Comments |
|------------|------|----------|
|------------|------|----------|

### Assessment Units

| WBIC | Segment | Local Name                                | Official Name        |
|------|---------|---|----------------------|
| 20   | 1       | South Shore Beach, Lake Michigan          | Lake Michigan        |
| 20   | 2       | Bradford Beach, Lake Michigan             | Lake Michigan        |
| 20   | 3       | Mckinley Beach, Lake Michigan             | Lake Michigan        |
| 20   | 4       | Tietjen Beach-Doctors Park, Lake Michigan | Lake Michigan        |
| 20   | 12      | Lake Michigan                             | Lake Michigan        |
| 20   | 13      | Atwater Beach, Lake Michigan              | Lake Michigan        |
| 20   | 14      | Bender Beach, Lake Michigan               | Lake Michigan        |
| 20   | 22      | Grant Park Beach, Lake Michigan           | Lake Michigan        |
| 20   | 40      | Bayview Park Beach, Lake Michigan         | Lake Michigan        |
| 20   | 83      | Klode Park Beach, Lake Michigan           | Lake Michigan        |
| 20   | 84      | Watercraft Beach, Lake Michigan           | Lake Michigan        |
| 28   | 1       | Milwaukee Harbor                          | Milwaukee Harbor     |
| 200  | 1       | Greenfield Park Pond                      | Greenfield Park Pond |
| 390  | 1       | Un Lake                                   | Unnamed              |
| 2900 | 2       | Root River                                | Root River           |
| 2900 | 3       | Root River                                | Root River           |
| 2900 | 4       | Root River                                | Root River           |
| 3385 | 1       | Unnamed                                   | Unnamed              |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>              | <b>Official Name</b>            |
|-------------|----------------|--------------------------------|---------------------------------|
| 3510        | 1              | Local Water                    | Unnamed                         |
| 3800        | 1              | Mid. Oakwood Golf Course P     | Mid. Oakwood Golf Course P      |
| 4000        | 1              | South Oakwood Golf Course Pond | South Oakwood Golf Course Pond  |
| 4200        | 1              | North Oakwood Golf Course Pond | North Oakwood Golf Course Pond  |
| 4300        | 1              | Root River Canal               | Root River Canal                |
| 5100        | 1              | Ryan Creek                     | Ryan Creek                      |
| 5200        | 1              | Dumkes Lake                    | Dumkes Lake                     |
| 5300        | 1              | Franklin Trib                  | Unnamed                         |
| 5350        | 1              | Un Lake                        | Unnamed                         |
| 5500        | 1              | Mud Lake                       | Mud Lake                        |
| 5550        | 1              | Legend Creek                   | Legend Creek                    |
| 5700        | 1              | Root River Parkway Pond        | Root River Parkway Pond         |
| 5900        | 1              | Koepmier Lake                  | Koepmier Lake                   |
| 6000        | 1              | Dale Creek                     | Dale Creek                      |
| 6100        | 1              | Scout Lake                     | Scout Lake                      |
| 6200        | 1              | Tess Corners Creek             | Unnamed                         |
| 6300        | 1              | Local Water                    | Unnamed                         |
| 6500        | 1              | Boerner Bot. Garden Pond No.1  | Boerner Bot Gdn Pond No. 1      |
| 6700        | 1              | Boerner Bot. Garden Pond No.2  | Boerner Bot Gdn Pond No. 2      |
| 7100        | 1              | Upper Kelly Lake               | Upper Kelly Lake                |
| 7300        | 1              | Whitnall Park Pond             | Whitnall Park Pond              |
| 7500        | 1              | Monastery Lake                 | Monastery Lake                  |
| 7600        | 1              | Un Lake                        | Unnamed                         |
| 7635        | 1              | Wildcat Creek                  | Unnamed                         |
| 8600        | 1              | Dineen Park Pond               | Dineen Park Pond                |
| 8800        | 1              | Estabrook Park                 | Estabrook Park Lagoon           |
| 9400        | 1              | Holler Park Pond               | Holler Park Pond                |
| 9700        | 1              | Humboldt Park Pond             | Humboldt Park Pond              |
| 9800        | 1              | Jacobus Park Pond              | Jacobus Park Pond               |
| 10000       | 1              | Bradley Lake (Little)          | Kosciuszko Park Pond            |
| 10100       | 1              | Linden Pond                    | Linden Pond                     |
| 10300       | 1              | Mcgovrn Park Pond              | McGovern Park Pond              |
| 10450       | 1              | Un Lake                        | Unnamed                         |
| 10500       | 1              | Mitchell Park Pond             | Mitchell Park Pond              |
| 10700       | 1              | North Golf Course Ponds        | North Golf Course Pond Number 1 |
| 10800       | 1              | North Golf Course Pond # 2     | North Golf Course Pond Number 2 |
| 10900       | 1              | North Golf Course Pond # 3     | North Golf Course Pond Number 3 |
| 11000       | 1              | New Zoo Pond                   | New Zoo Pond                    |
| 11100       | 1              | Noyes Park Pond                | Noyes Pond                      |
| 11500       | 1              | Saveland Park Pond             | Saveland Park Pond              |
| 11700       | 1              | Sheridan Park Pond             | Sheridan Park Pond              |
| 14400       | 1              | Washington Park                | Washington Park Pond            |
| 14500       | 1              | Oak Creek                      | Oak Creek                       |
| 14700       | 1              | Oak Creek Parkway Pond         | Oak Creek Parkway Pond          |
| 14800       | 1              | Mitchell Field Ditch           | Unnamed                         |
| 14800       | 2              | Mitchell Field Ditch           | Unnamed                         |
| 14900       | 2              | North Branch Oak Creek         | Unnamed                         |
| 15000       | 1              | Milwaukee River                | Milwaukee River                 |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>                                | <b>Official Name</b>           |
|-------------|----------------|--|--------------------------------|
| 15000       | 2              | Milwaukee River                                  | Milwaukee River                |
| 15100       | 1              | Kinnickinnic River                               | Kinnickinnic River             |
| 15100       | 2              | Kinnickinnic River                               | Kinnickinnic River             |
| 15100       | 3              | Kinnickinnic River                               | Kinnickinnic River             |
| 15200       | 1              | Wilson Park Creek                                | Wilson Park Creek              |
| 15200       | 2              | Wilson Park Creek                                | Wilson Park Creek              |
| 15250       | 1              | Cherokee Creek                                   | Unnamed                        |
| 15500       | 1              | Wilson Park Pond                                 | Wilson Park Pond               |
| 15550       | 1              | Holmes Avenue Creek                              | Unnamed                        |
| 15575       | 1              | Un. Creek (Edgerton Ditch)(T06n R22e Sw Ne 28)   | Unnamed                        |
| 15800       | 1              | Jackson Park Pond                                | Jackson Park Pond              |
| 15900       | 1              | South 43rd Street Ditch                          | Unnamed                        |
| 16000       | 1              | Menomonee River                                  | Menomonee River                |
| 16000       | 2              | Menomonee River                                  | Menomonee River                |
| 16000       | 3              | Menomonee River                                  | Menomonee River                |
| 16000       | 5              | Menomonee River                                  | Menomonee River                |
| 16100       | 1              | Wood Creek                                       | Wood Creek                     |
| 16200       | 1              | Wood Hospital Pond                               | Wood Hospital Pond             |
| 16300       | 2              | Honey Creek                                      | Honey Creek                    |
| 16600       | 1              | Mccarty Park Pond                                | McCarty Park Pond              |
| 16700       | 1              | Underwood Creek                                  | Underwood Creek                |
| 16700       | 2              | Underwood Creek                                  | Underwood Creek                |
| 16800       | 1              | South Branch Of Underwood Creek                  | Unnamed                        |
| 17400       | 1              | Menomonee Parkway Pond                           | Menomonee Parkway Pond         |
| 17600       | 2              | Little Menomonee                                 | Little Menomonee River         |
| 17700       | 1              | Noyes Creek                                      | Unnamed                        |
| 18300       | 1              | Schroedel Pond                                   | Schroedel Pond                 |
| 18350       | 1              | Unnamed Stream (R21e S18                         | Unnamed                        |
| 19300       | 1              | Milwaukee River Lincoln Park Lagoon              | Mil River -Lincoln Park Lagoon |
| 19400       | 1              | Lincoln Creek                                    | Lincoln Creek                  |
| 19450       | 1              | Crestwood Creek                                  | Unnamed                        |
| 19600       | 1              | Indian Creek                                     | Indian Creek                   |
| 19700       | 1              | Un. Creek (Brown Deer Creek)(T08n R22e Sw Nw 07) | Unnamed                        |
| 19900       | 1              | Brown Deer Park                                  | Brown Deer Park Pond           |
| 20000       | 1              | Beaver Creek                                     | Unnamed                        |
| 20400       | 1              | Un. Creek (Trinity Creek)(T09n R21e Se Ne 35)    | Unnamed                        |
| 20400       | 2              | Local Water                                      | Unnamed                        |
| 44600       | 1              | Juneau Park Lagoon                               | Juneau Park Lagoon             |
| 44700       | 1              | Fish Creek                                       | Fish Creek                     |
| 3000042     | 1              | Local Water                                      | Unnamed                        |
| 3000073     | 1              | South Branch Creek                               | Unnamed                        |
| 3000341     | 1              | Local Water                                      | Unnamed                        |
| 5034070     | 1              | Local Water                                      | Unnamed                        |
| 5034132     | 1              | Local Water                                      | Unnamed                        |
| 5034171     | 1              | Unnamed Stream                                   | Unnamed                        |
| 5034191     | 1              | Unnamed Stream                                   | Unnamed                        |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>            | <b>Official Name</b> |
|-------------|----------------|------------------------------|----------------------|
| 5034235     | 1              | Local Water                  | Unnamed              |
| 5034304     | 1              | Unnamed Stream               | Unnamed              |
| 5034362     | 1              | Local Water                  | Unnamed              |
| 5034457     | 1              | Unnamed Stream               | Unnamed              |
| 5034465     | 1              | Local Water                  | Unnamed              |
| 5034662     | 1              | Unnamed Stream               | Unnamed              |
| 5034771     | 1              | Local Water                  | Unnamed              |
| 5035100     | 1              | Local Water                  | Unnamed              |
| 5035175     | 1              | Grantosa Creek               | Unnamed              |
| 5035175     | 2              | DUPLICATE                    | Unnamed              |
| 5035401     | 1              | Local Water                  | Unnamed              |
| 5035805     | 1              | Local Water                  | Unnamed              |
| 5036024     | 1              | Local Water                  | Unnamed              |
| 5036088     | 1              | SOUTH BRANCH UNDERWOOD CREEK | Unnamed              |
| 5036265     | 1              | Hale Creek                   | Unnamed              |
| 5036372     | 1              | Local Water                  | Unnamed              |
| 5036509     | 1              | Local Water                  | Unnamed              |
| 5036633     | 1              | Zablocki Park Creek          | Unnamed              |
| 5036990     | 1              | Local Water                  | Unnamed              |
| 5037118     | 1              | Local Water                  | Unnamed              |
| 5037240     | 1              | Local Water                  | Unnamed              |
| 5037305     | 1              | Local Water                  | Unnamed              |
| 5037407     | 1              | Local Water                  | Unnamed              |
| 5037597     | 1              | Local Water                  | Unnamed              |
| 5037655     | 1              | Local Water                  | Unnamed              |
| 5037694     | 1              | Local Water                  | Unnamed              |
| 5037792     | 1              | Local Water                  | Unnamed              |
| 5037797     | 1              | Unnamed Stream               | Unnamed              |
| 5037833     | 1              | Local Water                  | Unnamed              |
| 5038138     | 1              | Unnamed Stream               | Unnamed              |
| 5038183     | 1              | Unnamed Stream               | Unnamed              |
| 5038451     | 1              | Local Water                  | Unnamed              |
| 5573818     | 1              | Local Water                  | Unnamed              |
| 5573892     | 1              | Local Water                  | Unnamed              |
| 5573998     | 1              | Unnamed                      | Unnamed              |
| 5574026     | 1              | Local Water                  | Unnamed              |
| 5574079     | 1              | Local Water                  | Unnamed              |
| 5574091     | 1              | Local Water                  | Unnamed              |
| 5575643     | 1              | Unnamed Lake                 | Unnamed              |
| 5575706     | 1              | Unnamed Lake                 | Unnamed              |
| 5575745     | 1              | Unnamed Lake                 | Unnamed              |
| 5575751     | 1              | Unnamed Lake                 | Unnamed              |
| 5575899     | 1              | Unnamed Lake                 | Unnamed              |
| 5576237     | 1              | Local Water                  | Unnamed              |
| 5576428     | 1              | Unnamed Lake                 | Unnamed              |
| 5576479     | 1              | Local Water                  | Unnamed              |
| 5576495     | 1              | Local Water                  | Unnamed              |
| 5576523     | 1              | Unnamed Lake                 | Unnamed              |



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| WBIC    | Segment | Local Name      | Official Name |
|---------|---------|-----------------|---------------|
| 5576584 | 1       | Unnamed         | Unnamed       |
| 5576636 | 1       | Local Water     | Unnamed       |
| 5576672 | 1       | Local Water     | Unnamed       |
| 5576707 | 1       | Local Water     | Unnamed       |
| 5576877 | 1       | Local Water     | Unnamed       |
| 5576946 | 1       | Local Water     | Unnamed       |
| 5576991 | 1       | Unnamed Lake    | Unnamed       |
| 5577024 | 1       | Local Water     | Unnamed       |
| 5577038 | 1       | Local Water     | Unnamed       |
| 5577146 | 1       | Local Water     | Unnamed       |
| 5577409 | 1       | Local Water     | Unnamed       |
| 5588787 | 1       | Local Water     | Unnamed       |
| 5588789 | 1       | Local Water     | Unnamed       |
| 5590457 | 1       | Northridge Lake | Unnamed       |

### Lab Account Codes

| Account Code | Description | Start Date | End Date |
|--------------|-------------|------------|----------|
|--------------|-------------|------------|----------|

### Forms

| Form Code | Form Name |
|-----------|-----------|
|-----------|-----------|

### Methods

| Method Code | Description |
|-------------|-------------|
|-------------|-------------|

### Fieldwork Events

| Start Date | Status | Field ID | Station ID | Station Name |
|------------|--------|----------|------------|--------------|
|------------|--------|----------|------------|--------------|

### Documents

| Title  | Description  | Author                 | Published  | Comments |
|--|--------------|------------------------|------------|----------|
| ARRA_18C_FinalQuarterlyReport  | Grant Report |                        | 12/01/2011 |          |
| ARRA_18C_Q2FFY10_Report  |              | Wdnr                   | 04/28/2010 |          |
| ARRA_18C_Q3FFY10_Report  | Grant Report |                        | 07/30/2010 |          |
| ARRA_18c_Q4FFY10_Report  | Grant Report |                        | 11/01/2010 |          |
| Final Report Evaluation of Potential Impacts from Implementing Stormwater Management Practices in Holmes Avenue Creek and Villa Mann Creem on Wilson Creek |              | MMSD, Terta Tech, HNTB | 07/08/2011 |          |
| MMSD LETTER AGREEMENT ARRA PROJECT - VMC & HAC   |              | Hahn, Michael          | 04/26/2010 |          |
| MMSD LETTER AGREEMENT ARRA PROJECT - VMC & HAC Exhibit A   |              | Hahn, Michael          | 04/26/2010 |          |
| MMSD Letter Agreement ARRA Project - VMC & HAC   |              | Hahn, Michael          | 04/26/2010 |          |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Title   | Description   | Author          | Published  | Comments |
|---|---|-----------------|------------|----------|
| Exhibit B   |   |                 |            |          |
| SEWRPC ARRA 18C SWEET Water Trust Grant Modification  | SEWRPC ARRA 18C SEWRPC SWEET Water Trust              | Michael G. Hahn | 10/29/2009 |          |
| SEWRPC SWEET Water Trust ARRA 18C Project Description | SEWRPC SWEET Water Trust ARRA 18C Project Description | Michael G. Hahn | 04/01/2009 |          |
| WPC Modeling task_quarterly report 032310 ARRA 18C    |   | Hahn, Michael   | 04/26/2010 |          |

### Budget

**Combined Budgets:**  
**Combined SLOH:**  
**Combined Total:**

### Funding

| Organization | Source | Type | Amount | Start Date | End Date |
|--------------|--------|------|--------|------------|----------|
|--------------|--------|------|--------|------------|----------|