

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: Cedar Creek & Milwaukee TMDL
Name: Cedar Creek & Milwaukee River TMDL
Type: TMDL/303d Projects
Subtype: Implement TMDL
Status: ACTIVE
Start Date: 09/23/2008
End Date: 12/31/2099
Purpose: Cedar Creek is a 28-mile, warm water stream that runs through Washington and Ozaukee Counties of Southeastern Wisconsin and flows into the Milwaukee River at river mile 28. The land use in the Cedar Creek Watershed is primarily rural including agriculture (49%), wetlands(16%), grasslands and forest (26%), while urban areas cover about 3.5% of the watershed (WNDR 2001). The Wisconsin Department of Natural Resources (WDNR) placed the first 5 miles of Cedar Creek upstream of the confluence with the Milwaukee River on Wisconsin's
Objective: Cedar Creek is part of the Great Lakes Basin, and ultimately the fate and transport of PCBs to the Milwaukee River and the Milwaukee River Area of Concern should be considered when exploring implementation actions for this TMDL. Despite the remediation efforts of Ruck Pond, human and ecological risks remain in effect downstream of the Ruck Dam in Cedar Creek to the Milwaukee River. Additional remediation is necessary in the Cedar Creek system to see a continual decline in sediment concentrations of PCBs, level of PCBs in fish tissue, and also exports of PCBs to the Milwaukee River¹⁷. Since Cedar Creek is a Superfund Alternative site, WDNR, EPA and the potential responsible parties are working together on a Remedial Investigation and Feasibility Study Reports (RI/FS). However, the comments from EPA, in consultation with WDNR, should be adequately addressed in the RI/FS conducted by ARCADIS BB&L for the Mercury Marine Corporation. It is important that the RI/FS proceed to completion and in a timely manner. Model projections indicate system recovery is enhanced by removing contaminants from certain impoundments (Figure 2). In addition, after the Cedar Creek remedy is implemented, significant benefits could be expected including local and watershed-wide fish and wildlife bioaccumulation rate reductions, reduced human health risks associated with fish and wildlife consumption advisories, reduced ecological risk for fish eater animals, and elimination of the potential impacts associated with significant or catastrophic loading events (e.g. high flows or possible dam failure as experience in Hamilton Pond). For example, if the Wire and Nail dam would fail, approximately 70 kg of PCB stored could be released which is greater than the PCB transport estimated from Cedar Creek in the next 25 years (Baird and Associates 1997).
Comments:
Outcome: After a full and complete review, EPA finds that the TMDLs for the Cedar Creek and Milwaukee River watershed satisfy all of the elements of approvable TMDLs. This approval is for 2 TMDLs, addressing 1 impairment each in 2 waterbody segments.
Study Design:
QA Measures:

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|---------------------|-------------|--------|------------|------------|---------------|----------|
| BURZYNSKI, MARSHA B | COORDINATOR | ACTIVE | 03/25/2007 | 12/31/2099 | Wisconsin DNR | |

Project Statuses

| Date | Reported By | Status | Comments |
|------|-------------|--------|----------|
|------|-------------|--------|----------|

Actions

| Action | Detailed Description | Start | End Date | Status |
|-----------------------|--|------------|------------|-------------|
| TMDL (USEPA) Approved | The Cedar Creek and Milwaukee River watershed was listed on the 2006 Section 303(d) list due to fish consumption advisories due to polychlorinated biphenyls (PCBs). | 09/23/2008 | 09/23/2008 | COMPLETE |
| TMDL Implementation | Cedar Creek & Milwaukee River TMDL Implementation. An Implementation Plan is needed. | 09/23/2008 | | IN_PROGRESS |

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| Action | Detailed Description | Start | End Date | Status |
|------------------|--|------------|------------|-------------|
| TMDL Development | Cedar Creek is a 28-mile, warm water stream that runs through Washington and Ozaukee Counties of Southeastern Wisconsin and flows into the Milwaukee River at river mile 28. The land use in the Cedar Creek Watershed is primarily rural including agriculture (49%), wetlands(16%), grasslands and forest (26%), while urban areas cover about 3.5% of the watershed (WDNR 2001). The Wisconsin Department of Natural Resources (WDNR) placed the first 5 miles of Cedar Creek upstream of the confluence with the Milwaukee River on Wisconsin's 2006 Impaired Waters List. | 09/23/2008 | 09/23/2008 | COMPLETE |
| TMDL Monitoring | Cedar Creek is a 28-mile, warm water stream that runs through Washington and Ozaukee Counties of Southeastern Wisconsin and flows into the Milwaukee River at river mile 28. Cedar Creek is part of the Great Lakes Basin, and ultimately the fate and transport of PCBs to the Milwaukee River and the Milwaukee River Area of Concern should be considered when exploring implementation actions for this TMDL. Despite the remediation efforts of Ruck Pond, human and ecological risks remain in effect downstream of the Ruck Dam in Cedar Creek to the Milwaukee River. | 09/23/2008 | 12/31/2099 | IN_PROGRESS |

| Details: | Parameter | Value/Amount | Units | Comments |
|----------|------------------------|--------------|-------|----------|
| | Total Phosphorus | | | |
| | Total Suspended Solids | | | |

Monitoring Stations

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

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|-------|---------|--------------------------------|-----------------|
| 15000 | 4 | Milwaukee River | Milwaukee River |
| 21300 | 1 | Cedar Creek | Cedar Creek |
| 44200 | 1 | Un. Creek (T14n R18e Nw Ne 27) | 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 |
|------------|--------|----------|------------|--------------|
|------------|--------|----------|------------|--------------|

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Documents

| Title | Description | Author | Published | Comments |
|--|---|--|------------|----------|
| Cedar Creek & Milwaukee River PCBs TMDL 2008 | Final TMDL Submitted on August 29, 2008. Polychlorinated Biphenyls (PCBs) Total Maximum Daily Load for Cedar Creek & Milwaukee River (Thiensville Segment) Ozaukee County, WI | Villeneuve, Valerie and Richmond, Nicole | 08/29/2008 | |
| Cedar Creek Watershed (MI04) Goals and Priorities Image | MI04 | | 06/22/2011 | |
| Cedar Creek at Covered Bridge Late Summer (Photo) | Late summer - foot bridge | Gennrich | 09/05/2011 | |
| Cedar Creek at Division Rd (Photo 1) | | Gennrich | 07/11/2009 | |
| Cedar Creek at Division Rd (Photo 2) | Thermister under bridge | Gennrich | 09/05/2011 | |
| Cedar creek at Division Rd (Photo 3) | Sample site | Gennrich | 09/05/2011 | |
| USEPA Decision Document for the Approval of the Cedar Creek and Milwaukee River TMDL Thiensville Segment 21300_35378 | Cedar Creek USEPA TMDL Decision Document. 'After a full and complete review, EPA finds that the TMDLs for Cedar Creek and Milwaukee River watershed satisfy all of the elements of approvable TMDLs. This approval is for 2 TMDLs, addressing 1 impairment each in 2 waterbody segments.' | USEPA | 09/23/2008 | |
| Volunteers Monitoring Cedar Creek | | River Alliance of Wisconsin | | |

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

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