

Engineering Department
205 South Lincoln Avenue
Beaver Dam, Wisconsin 53916

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rpiltz@cityofbeaverdam.com

September 21, 2015

WDNR Fitchburg Service Center
Attn: Mike Gilbertson
3911 Fish Hatchery Road
Fitchburg, WI 53711

Re: Grant Number USC-UR03-14220-14

Dear Mr. Gilbertson:

This correspondence is in reference to a Wisconsin Urban Nonpoint Source Water Pollution Abatement & Stormwater Management Grant awarded to the City of Beaver Dam dated December 11, 2013.

Starting in early 2014, the City has diligently pursued the various details of land acquisition, cost and liability allocations plus other items relating to the eventual construction of the water quality pond that was proposed under the terms of the grant application and award. The water quality pond as per the grant award was originally proposed to be located near Rechek's Grocery Store on a portion of the former Monarch Range property, now called the "Monarch Development". This property was transferred to the current owner (Dodge County) in 1988 through a property tax foreclosure after the former owner (Malleable Iron Range Company) abandoned the property and filed for bankruptcy in 1985. In the years following there were extensive environmental remediation activities undertaken on the site and even today the site has residual environmental concerns that would need to be addressed with any type of substantial soil disturbance, including pond construction.

A cooperative effort between the City and County to evaluate the construction impacts of the proposed pond has been ongoing since the grant inception. Thru this process the City has come to better understand a number of issues that ultimately affect the location and construction of the pond. With this understanding came a desire to take a second look at viable alternatives that might be less disruptive to the environment, more cost effective, and offer better water quality performance characteristics. We believe that we have found such an alternative and therefore we are asking for two amendments to the original grant award as follows:

1. **We request an extension to the end of the grant period from the current termination date of December 31, 2015 to December 31, 2016.** This would be an extension of one year. If these amendments are granted, the City is ready to start the final design immediately with the intent to open construction bids this winter and construct the facility during the 2016 construction season.
2. **We request that a change of location for the new facility be considered, as supported by the enclosed "Substitution Request for TRM and UNPS Construction Grants" and related documents.** This relocation would be from the "Monarch Development" site to a nearby property that is currently owned by the City of Beaver Dam. The site has sometimes been referred to as the "Former Senior Center Site" but is heretofore referred to as the "Beaver Dam Library Water Quality Pond" site. The beneficial attributes of this site is further discussed below.

The newly proposed "Beaver Dam Library Water Quality Pond" site has the following positive attributes for construction of a water quality feature.

- The site is large enough to construct a water quality pond with performance characteristics that exceed the original site proposed on the "Monarch Development".
- This site is strategically located approximately 500 feet downstream and adjacent to the same major storm sewer trunk line that follows the old railroad corridor to the Beaver Dam River. Both pond locations are in the same watershed for the Beaver Dam River.
- The property is currently owned by the City of Beaver Dam so there are no ownership transition issues.
- The property has no known environmental issues or use restrictions.

The "Beaver Dam Library Water Quality Pond" site was reviewed in 2010 as a possible location for a water quality pond but at that time the useable area on the site not already dedicated to parking was too small to construct an efficient pond feature and therefore the site was quickly eliminated. At the time of this initial review, the available parking was being shared between the Senior Center and the Community Library which were in close proximity to one another. Since that time, the shared parking arrangement has changed because the City has undertaken a project to relocate the Senior Center to a different location.

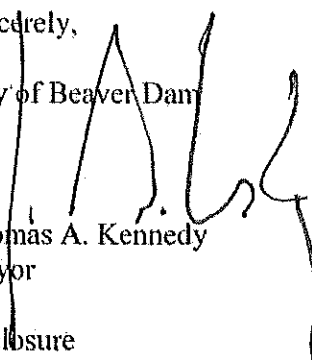
With the Senior Center move, the opportunity now exists to redevelop the site with a revised parking scheme for the Community Library which allocates enough space for a new water quality pond. This redevelopment will require the demolition and removal of the existing Senior Center building, parking lot reconfiguration and more importantly, the construction of a water quality pond. Preliminary pond performance computations show that the newly proposed "Beaver Dam Library Water Quality Pond" will have improved performance over the former "Monarch" site.

In summary, the City of Beaver Dam is still committed to make improvements in local water quality and would very much like to continue along the path proposed, but continue

with an alternate location that offers improved water quality performance characteristics. In order to accomplish this goal, we are seeking amendments to the original grant award that extend the term of the funding assistance to December 31, 2016 and also authorize construction expenditures as shown herein at the alternate site. We anxiously await confirmation of these requests by the Department. Thank you for these considerations.

Sincerely,

City of Beaver Dam


Thomas A. Kennedy
Mayor

Enclosure

cc: Michael J. Laue, PE - MSA Professional Service - Consulting City Engineer

Substitution Request for Targeted Runoff Management, and Urban Nonpoint Source & Storm Water Management-Construction Grants

Form 8700-308 (R 5/10)

Page 1 of 5

Notice: Complete this application if you want to change the location where practices were to be installed after grant assistance has been awarded by the Dept of Natural Resources, as required under ss. 281.65 and 281.66, Wis. Stats., and Chapters NR 153 and 155, Wis. Adm. Code. Information collected will be used for program budget analysis and project evaluation. Personally identifiable information will be used for program administration and may be made available to requesters under Wisconsin's Open Records Law [ss.19.31-19.39, Wis. Stats.]

Instructions:

A grantee selected for funding through either the Targeted Runoff Management (TRM) or the Urban Nonpoint Source & Storm Water Management (UNPS&SW) Grant Program may propose substitutions to the original project proposal. Completion of this form is required for substitutions to the initial grant, including alternative locations for installing practices and, in some cases, revisions to best management practices (BMPs). The grantee must certify that the substitution will achieve results comparable to those anticipated through the original project proposal. All project substitutions must comply with federal and state laws for the protection of cultural and historical resources, and for detecting and managing contaminated soils or solid waste encountered during installation of the BMPs. If such materials are encountered, the grantee shall immediately contact the Department's Regional Nonpoint Source (NPS) Coordinator. The Department may terminate this proposed grant substitution if it determines that installation and operation of the best management practices may facilitate movement of hazardous substances to waters of the state.

Please answer the following questions and sign the form. Submit a signed printed copy of the request, including any attachments, to the Department's Regional NPS Coordinator for your area. If an alternative BMP location is being proposed, include a photocopy of a topographic map showing the location of the proposed location.

The most current grant application, found at: <http://dnr.wi.gov/runoff/grants/applications/> will be used by the Department in making decisions concerning this substitution request.

The Department's Surface Water Data Viewer (http://dnr.wi.gov/org/water/data_viewer.htm) may be helpful in answering some of the following questions.

Grantee Information			
Governmental Unit Name City of Beaver Dam		Grant Number USC-UR03-14206-14	
Former Project Name Rehek Water Quality Pond a/k/a Monarch Water Quality Pond		Watershed in Which Project Was To Be Located (Must be in the same Watershed as original grant) UR03	
Legislative District: (find at: http://www.legis.state.wi.us/) Senate 13 Assembly 39			
Proposed Project Name Beaver Dam Library Water Quality Pond		Watershed in Which Proposed Project Is to be Located (Must be in the same Watershed as original grant) UR03	
Proposed Watershed Name Beaver Dam River	Proposed Waterbody Code UR03	Proposed Primary Waterbody Name Beaver Dam River	Proposed Nearest Waterbody Name Beaver Dam River
Proposed 12-digit federal Hydrologic Unit Code: 070900010908		Does the waterbody appear on the State of WI list of impaired waters submitted to the USEPA in compliance with sec. 303(d) of the Clean Water Act (33 USC § 1251, et seq.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name of s. 303(d) Listed Waterbody: Beaver Dam River	

Pollutants to be addressed by the project: (Note: To remain eligible for federal funding, the pollutants to be controlled by the proposed project must be those responsible for the waterbody impairment as shown by the federally-approved 303(d) List of Impaired Waters. To determine the waterbody's impairment, refer to the list found at: <http://dnr.wi.gov/org/water/wm/watersummary/Waterqualityassessment.html>)

☒ Nutrients ☒ Sediment Other:

Questions**1. Reason for Request:**

State the rationale for requesting this substitution. If requesting new or replacement BMPs, you must identify the BMP. Also include a revised budget sheet for Part I, Question 1.B of the application.

For reference, please view the attached map entitled "Alternative Storm Water Pond Locations", which was originally published in a study conducted by MSA Professional Services for the City of Beaver Dam in 2010. This study considered five different locations in the North Central Drainage Area for feasibility of pond construction.

A UNPS grant application was submitted in April 2013 for the purpose of constructing the Rechek Pond (Location 4 on "Alternative Storm Water Pond Locations" map). This was the preferred alternative from the report, and while the property was not owned by the City, the owner at the time had indicated a willingness to negotiate sale. In early 2014, however, the property was sold and the new owner was unwilling to negotiate sale.

A substitution request was submitted to WDNR in April of 2014, proposing to relocate the facility. Renamed the Monarch Pond (Location 3 on "Alternative Storm Water Pond Locations" map), this alternate was situated on Lots 7 and 8 of the former Monarch Range site; both lots are owned by Dodge County who has previously indicated willingness to negotiate a sale. However, this location revealed contaminated soil concerns that made excavation of a pond cost-prohibitive.

This substitution request (September 2015) proposes to once again relocate the facility, this time to Location 5 on the "Alternative Storm Water Pond Locations" map. This location is owned by the City as shown on the attached tax map. (Tax Key Nos. 206-1214-3334-079, 206-1214-3334-080, and 206-1214-0421-148). It is free of any known environmental concerns (see attached Form 1800-001 and BRRTS data viewer map) or waterway/wetland features (see attached WDNR Surface Water Data Viewer map). *→ see attached DNR email regarding wetland and review of the site* MLG
9-24-15

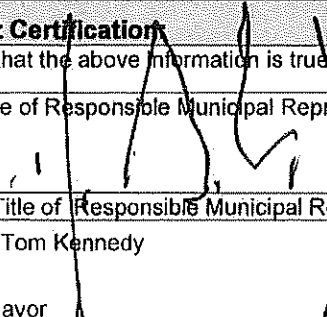
The BMP will remain a wet detention basin, as was proposed in the original application. The extents of excavation and storm sewer relocation is shown in the attached conceptual site plan. An opinion of probable construction costs with commentary on unit prices and a revision of the original grant application budget sheet (Part I Question 1.B) is attached. It should be noted that site items apart from the pond are included in the request for funds, such as building demolition, parking lot construction, etc. These site items are a necessary part of the project and are directly related to pond construction because the pond will eliminate some parking areas that are used by the library; the building demolition and parking lot reconstruction will replace the loss of parking.

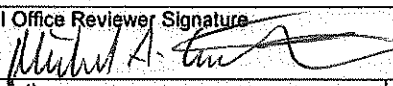
2. Analysis of Request for Substitution:

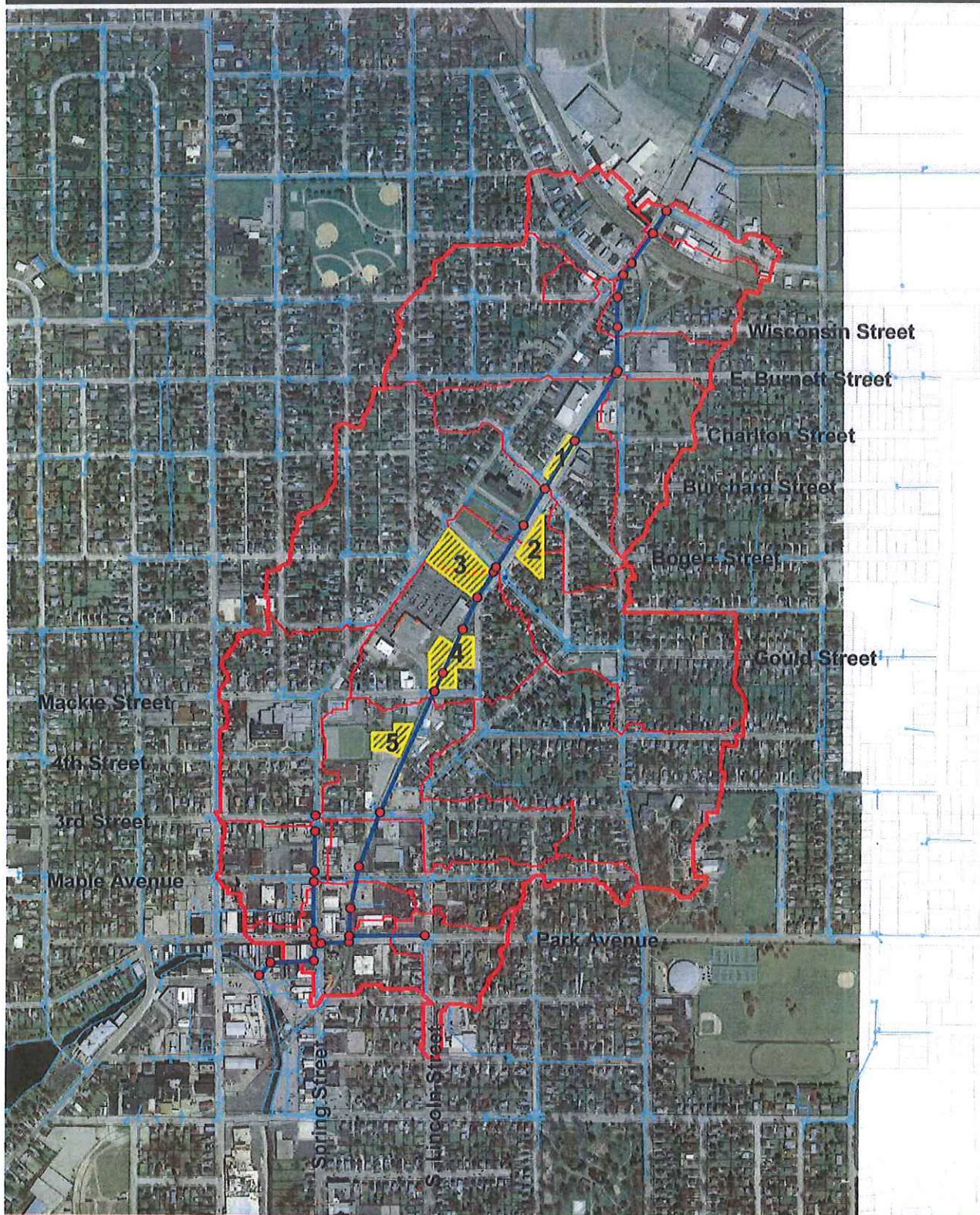
Yes	No	NA																																					
<input checked="" type="checkbox"/>	<input type="checkbox"/>		a. The proposed substitution is in the same hydrological unit (the federally-assigned numeric code for a subdivision of a watershed, used to organize hydrologic data,) and affects the same water resources identified in the original application. Identify the location of the proposed BMP(s) below.																																				
			<table border="1"> <thead> <tr> <th>MCD (Minor Civil Division)</th> <th>Township</th> <th>Range</th> <th>E or W (identify)</th> <th>Section</th> <th>Quarter</th> <th>Quarter/Quarter</th> <th>Latitude (degrees, minutes and seconds, only, North of the Equator)</th> <th>Longitude (degrees, minutes, and seconds, only, West of the Prime Meridian, in Greenwich, England)</th> </tr> </thead> <tbody> <tr> <td>Beaver Dam, City of</td> <td>12</td> <td>14</td> <td>E</td> <td>33</td> <td>SE</td> <td>SW</td> <td>43.4596</td> <td>-88.8352</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MCD (Minor Civil Division)	Township	Range	E or W (identify)	Section	Quarter	Quarter/Quarter	Latitude (degrees, minutes and seconds, only, North of the Equator)	Longitude (degrees, minutes, and seconds, only, West of the Prime Meridian, in Greenwich, England)	Beaver Dam, City of	12	14	E	33	SE	SW	43.4596	-88.8352																		
MCD (Minor Civil Division)	Township	Range	E or W (identify)	Section	Quarter	Quarter/Quarter	Latitude (degrees, minutes and seconds, only, North of the Equator)	Longitude (degrees, minutes, and seconds, only, West of the Prime Meridian, in Greenwich, England)																															
Beaver Dam, City of	12	14	E	33	SE	SW	43.4596	-88.8352																															
			b. Navigable Waters and Wetland Determinations																																				

<input checked="checked" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>i. <u>Navigable Waters</u>: If this project will install an urban storm water treatment practice, the applicant has determined that the practice will not be located in any intermittent or perennial waterway as shown on a map from the Department's Surface Water Data Viewer identified below. Check to indicate the map has been consulted.</p> <p><input checked="checked" type="checkbox"/> Surface Water Data Viewer Map, 24K Hydro Layer at: http://dnr.wi.gov/org/water/data_viewer.htm</p>
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Yes	No	NA	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ii. <u>Wetlands</u> : If this project will install an urban storm water treatment practice, the applicant has determined that the practice will not be located in any wetland, based upon consulting both of the following: <input checked="" type="checkbox"/> Wisconsin Wetland Inventory at: http://dnr.wi.gov/wetlands/inventory.html <input checked="" type="checkbox"/> Wetland Indicator Toolkit at: http://dnr.wi.gov/wetlands/locating.html
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. If this is a proposed urban project to be funded under ch. NR 155, Wis. Adm. Code, the proposed project area is an urban area as defined by s. NR 155.12(31), Wis. Adm. Code...
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	d. If this is a proposed urban project which requires that the applicant have control of the property, the applicant currently owns the property or has control of the property through an easement or construction/maintenance agreement.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	e. If this application proposes excavation in an urban area, or the purchase of land or an easement, the applicant has completed and attached the Environmental Hazards Assessment form (1800-001), available at: http://dnr.wi.gov/org/caer/cfa/Grants/Forms/1800001_fillPrint.pdf Also, complete the following:
			i. If this is a project which includes excavation or the purchase of land or an easement, consult the Bureau of Remediation and Redevelopment (R&R) Site Map (at: Error! Bookmark not defined. and answer the following questions using a map scale of 1:8529 or larger:
<input type="checkbox"/>	<input checked="" type="checkbox"/>		1. There is one or more <u>open</u> (ongoing cleanup) R&R sites on the <u>same property</u> where the excavation is planned.
<input type="checkbox"/>	<input checked="" type="checkbox"/>		2. There is one or more <u>closed</u> (completed cleanup) R&R sites on the <u>same property</u> where the excavation is planned.
<input type="checkbox"/>	<input checked="" type="checkbox"/>		3. There is one or more <u>open</u> (ongoing cleanup) R&R sites on an <u>adjacent property</u> .
<input type="checkbox"/>	<input checked="" type="checkbox"/>		4. There is one or more <u>closed</u> (completed cleanup) R&R sites on an <u>adjacent property</u> .
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	f. If this is a proposed project for the University Board of Regents, the project meets the criteria under s. 281.66 (6), Wis. Stats.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	g. If this is a proposed urban project, then one of the following is true: 1) local governmental unit has jurisdiction over the project area; or 2) the municipal storm water discharge is covered by a municipal storm water permit <u>and</u> the appropriate intergovernmental agreement is in place to install, operate and maintain the BMP.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		h. Installation of the proposed BMPs will be completed within the grant period. If an extension of the grant period is needed, include a revised project timeline using the table from Part I., Question 1.A .of the grant application.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		i. Staff or contractual services, in addition to those funded by this grant, will be provided as needed.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		j. Staff and/or contractors have adequate training, knowledge, and experience to implement the proposed project.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		k. Best management practices constructed under this grant are consistent with performance standards under ch. NR 151, Wis. Adm. Code.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		l. The substitution will not increase the amount of the grant request.
<input type="checkbox"/>	<input checked="" type="checkbox"/>		m. The applicant is requesting the addition of one or best management practices (BMPs) that are not on the current grant.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		n. The BMP you are requesting in this proposed substitution is a cost-effective means of controlling the pollutant source that is targeted to be controlled. Attach a revised cost-effectiveness assessment using Part I., Question 1.C. from the grant application.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	o. If this application is for livestock operation controls (e.g., barnyard runoff or manure storage), the applicant has attached the Animal Unit Calculation worksheet, available at: http://dnr.wi.gov/runoff/pdf/ag/cafo/form340025A.doc
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	p. If this proposed substitution will result in a change in the project evaluation strategy, identify which of the following components the revised strategy will include: <i>(check all that apply)</i>
			<input type="checkbox"/> i. Modeling or other changes in pollution potential - <i>specify the method (required)</i>
			Method:
			<input type="checkbox"/> ii. Monitoring <i>(Requires a pre-approved monitoring plan that must be attached.)</i>
Yes	No	NA	

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	q. If this is an agricultural project, the landowners who are essential to successful implementation are involved in and committed to the project, or the Department or grantee has agreed in writing to issue a regulatory notice as needed.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	r. If this is an urban project, attach documentation that the local share is approved and available.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		s. The extent of pollutant control for the revised project is comparable to the extent of pollutant control in the original application. If "No," explain:
Applicant Certification			
I certify that the above information is true and correct.			
Signature of Responsible Municipal Representative			Date
			9.21.15
Name and Title of Responsible Municipal Representative (please print legibly or type)			
Name: Tom Kennedy			
Title: Mayor			

For DNR Use Only	
Regional Office Reviewer Signature	
	
Name (print)	Date
Mike Gilbertson	9/24/15
Recommendation (check one): <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Disapprove	
Rationale: This is the third option the grantee and consultant have found to implement the project after the first two were challenge sites. This site removes all of the challenges that existed at the other sites, and turns out to be a better option overall.	
Transmittal	
From Regional Office to Runoff Management Section <input type="checkbox"/>	Date Sent:
From Runoff Management Section to Community Financial Assistance Section <input type="checkbox"/>	Date Sent:



Alternative Stormwater Pond Locations

MAP-5

City of Beaver Dam

Dodge County, Wisconsin

Legend

- Study Area Limits
- Watershed Divides
- Alternative Pond Locations





44-3334
City of BEAVER DAM
SE1/4-SW1/4 SECTION 33
T12N-R14E

206-12-14-	TRINITY CHURCH-UNITED METHODIST	3334-000	DEBORAH R HICKS
3334-001	TRINITY UNITED METHODIST CHURCH	3334-001	KYLE STEBB
3334-002	TRINITY UNITED METHODIST CHURCH	3334-002	WILLIAM D WIEDENHOEFF +
3334-003	TRINITY CHURCH-UNITED METHODIST OF BEAVER DAM	3334-003	AMY J WACHOW
3334-004	TRINITY CHURCH-UNITED METHODIST OF BEAVER DAM	3334-004	SCOTT R NEUBORF +
3334-005	TRINITY CHURCH-UNITED METHODIST OF BEAVER DAM	3334-005	WILLIAM G HEMERL +
3334-006	TRINITY CHURCH-UNITED METHODIST OF BEAVER DAM	3334-006	WILCOAT PROPERTIES OF IRON RIDGE
3334-007	TRINITY CHURCH-UNITED METHODIST OF BEAVER DAM	3334-007	WILCOAT PROPERTIES OF IRON RIDGE L.L.C.
3334-008	JESSICA NOWICKI	3334-008	MARY B STARRY
3334-009	TYLER T WELCH +	3334-009	STANLEY P KIRSCHBAUM +
3334-010	WILLIAM G MALECK	3334-010	JOHN R HACK +
3334-011	NATASHA TUSEVICH-SCHMIDT	3334-011	LEON T KLINGER
3334-012	PRISCILLA TREVINO	3334-012	DEAN E SLOSSER
3334-013	ZAGHARAH P ZOPP +	3334-013	ROBERTO HERNANDEZ +
3334-014	DANIEL J DOYLE +	3334-014	CITY OF BEAVER DAM
3334-015	ROBERT J MALY +	3334-015	ALICIA K SCHULT
3334-016	KEN M KASPER	3334-016	CYNTHIA M LINDEMAN (BRYER)
3334-017	KELLY BLAKE +	3334-017	BEAVER DAM UNIFIED SCHOOL DISTRICT +
3334-018	LINDY L LUEBELER	3334-018	BEAVER DAM UNIFIED SCHOOL DISTRICT +
3334-019	JERRY'S LAMARATHON AUTO CTR INC	3334-019	BEAVER DAM UNIFIED SCHOOL DISTRICT +
3334-020	JERRY'S LAMARATHON AUTO CTR INC	3334-020	BEAVER DAM UNIFIED SCHOOL DISTRICT
3334-021	CELINE C BRZEZINSKI	3334-021	WILLIAM H SNOOK +
3334-022	CELINE C BRZEZINSKI	3334-022	KENNETH STANGE +
3334-023	BEAVER GUNITE CO INC	3334-023	STEPHEN J BADGE
3334-024	ANN MESSENGER	3334-024	BRIAN D APRLE
3334-025	EUGENE G MOLL	3334-025	J LEONARD SPOOK +
3334-026	JOVE A SOLDER (HOLDEN)	3334-026	ROBERT L LABEL
3334-027	CHARLES E CRUZ TRUST	3334-027	JOANNE TYBESKI LLC
3334-028	BEV ANDERSON	3334-028	KIT M ULMAN +
3334-029	DAVID A SCHULTZ +	3334-029	BEAVER GUNITE CO INC
3334-030	MARYANN KRUEGER TRUST	3334-030	CITY OF BEAVER DAM
3334-031	STANLEY P KIRSCHBAUM +	3334-031	CITY OF BEAVER DAM
3334-032	DENNIS MIDTHUN	3334-032	BEAVER DAM UNIFIED SCHOOL DISTRICT
3334-033	GENO LLC	3334-033	SCHOOL DISTRICT
3334-034	OSCAR J GONZALEZ +	3334-034	ALBERT J GILLINCHAM
3334-035	KENNETH A ZIEGLER JR +	3334-035	RONALD J FARNSWORTH +
3334-036	KELIE M N KUDAS	3334-036	DANIEL J MAROLA 1/2 INT +
3334-037	VINCENT IWENGER LE +	3334-037	JEFFREY W ZASTROW +
3334-038	KRIG G BOUTHER +	3334-038	117 4TH STREET LLC
3334-039	MARLAND SHERMAN +	3334-039	JOSEPH J SRES +
3334-040	JOHN MCLEOD +	3334-040	MAVILLE SAVINGS BANK
3334-041	RICHARD L LESTKOW +	3334-041	JUSTIN L STORFLET
3334-042	RICHARD J SCHMITT TRUST +	3334-042	JUSTIN L STORFLET
3334-043	PARKHURST TRUST	3334-043	INVESTMENTS LLC
3334-044	ROBERT M BEL +	3334-044	MAVILLE SAVINGS BANK
3334-045	216 WYACKE LLC	3334-045	STANLEY P KIRSCHBAUM +
3334-046	DR BEET C CALLIHAN +	3334-046	JULIO B MOLINA
3334-047	REABE PROPERTIES LLC	3334-047	

1" = 160'

021-148 ALSO BY CITY OF B.D.

Notice: This form must be completed and approved by the DNR before grant funds can be expended for land acquisition. Please complete all sections. Use additional page if necessary. Collection of this information is authorized under ss. 23.0915 - 23.0917, Wis. Stats. Failure to provide this information may result in denial or repayment of grant awards. Personal information collected on this form will be used for management of DNR programs and grants. Information may be made available to requesters under Wisconsin's Open Records laws (ss. 19.31-19.39, Wis. Stats.).

1. General Information

Applicant Name	Project / Parcel	County
City of Beaver Dam	Beaver Dam Library Water Quality Pond	Dodge
Property Owner Name	Property Street Address	
City of Beaver Dam	114 E. Third Street, Beaver Dam, WI 53916	
Close / Intersecting Roads		
N Spring Street and E Third Street		

Legal Description:	1/4 / 1/4	1/4	Section(s)	Township	Range	E / W
	SW	SE	33	12 N	14E	

2. Environmental Condition Statement of Property

Complete the checklist to the best of your knowledge through inspection of the site. Indicate if any of the following conditions currently exist on site:

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Known spills, release of chemicals, hazardous substances or fuels
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dumps, debris piles, stockpiles of waste, containers, barrels or drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sludge
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Discolored or odorous soil
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Areas of stressed vegetation, absence of vegetation, areas previously burned
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unusual or noxious odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Discolored, polluted, foul water (in standing water, wells, or wetlands)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is an existing well located on site? If yes, where is it located? _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Old pipes, electrical equipment
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unusual or irregular depressions or mounds on surface
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other evidence of possible contamination - If yes, describe: _____

If the answer to any question above is yes:

- Attach description or explanation and site map showing location of item(s) checked.
- The property may require a Phase I or further investigation/inspection. Talk to your regional grant specialist listed in the application form.

3. Land Use History

A. Current Uses of the Property:

- ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Orchards ☐ Railroads and Railroad Spurs ☐ Landfills
- ☒ Other - Explain: Parking areas for public library and senior center

B. Historical Uses of the Property (for the past 20 years):

- ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Orchards ☒ Railroads and Railroad Spurs
- ☐ Suspected Former Landfills ☒ Other - Explain: Parking areas for public library and senior center

C. To the best of your knowledge does the property have evidence of the following?

- | Yes | No | |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the site been used for the storage or warehousing of commercial or industrial materials? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there areas with a history or likelihood of underground storage tanks? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there monitoring wells on site? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Is there any history of contamination on the property? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Is there any history of contamination on any adjacent properties? |

If you checked any boxes in Sections 3A or 3B above, or answered yes to any question in Section 3C, the property may require a Phase I or further investigation/inspection. Talk to your regional grant specialist listed in the application form.

Environmental Hazards Assessment

Form 1800-001 (R 10/08)

Page 2 of 2

4. Site Investigation DocumentationHas a Phase I or Phase II Site Investigation been completed on the property? ☐ Yes ☒ No

If yes, attach a copy of the conclusions.

5. Certification

I hereby certify that I have inspected the property and contacted the current owner regarding environmental contamination. The information provided is a full disclosure of my findings and is true and complete to the best of my knowledge.

Printed Name of Preparer

Uriah P. Monday, PE, CFM

Title

Senior Project Engineer, MSA Professional Services

Signature of Preparer

Date Signed

14 September 2015

If you are submitting this form as a condition of a Nonpoint Targeted Runoff Management or Nonpoint Urban Storm Water-Construction grant, please also indicate the following:

Printed Name of Authorized Representative

Tom Kennedy

Title

Mayor

Signature of Authorized Representative

Date Signed

9.21.15

Leave Blank – DNR Use Only**6. Search of DNR Records**

A. Does the property appear on the most recent version of the Bureau of Remediation and Redevelopment Tracking System (BRRTS)?

☐ Yes ☒ No

If Yes, Site Name: _____ BRRTS Activity #: _____

B. Does the property appear on the most recent version of the DNR Registry of Waste Disposal Sites in Wisconsin?

☐ Yes ☒ No

If Yes, Site Name: _____

C. Does the property appear on the most recent version of the Solid and Hazardous Waste Information Management System (SHWIMS)?

☐ Yes ☒ No

If Yes, Site Name: _____

7. Conclusions☒ Based on the information available in DNR's Regional files at this time, no additional investigation recommended.☐ Further Investigation Needed; Consult with Region R&R Program for Recommendation

Printed Name of DNR Reviewer

Denise Nettesheim

Title

Hydrogeologist

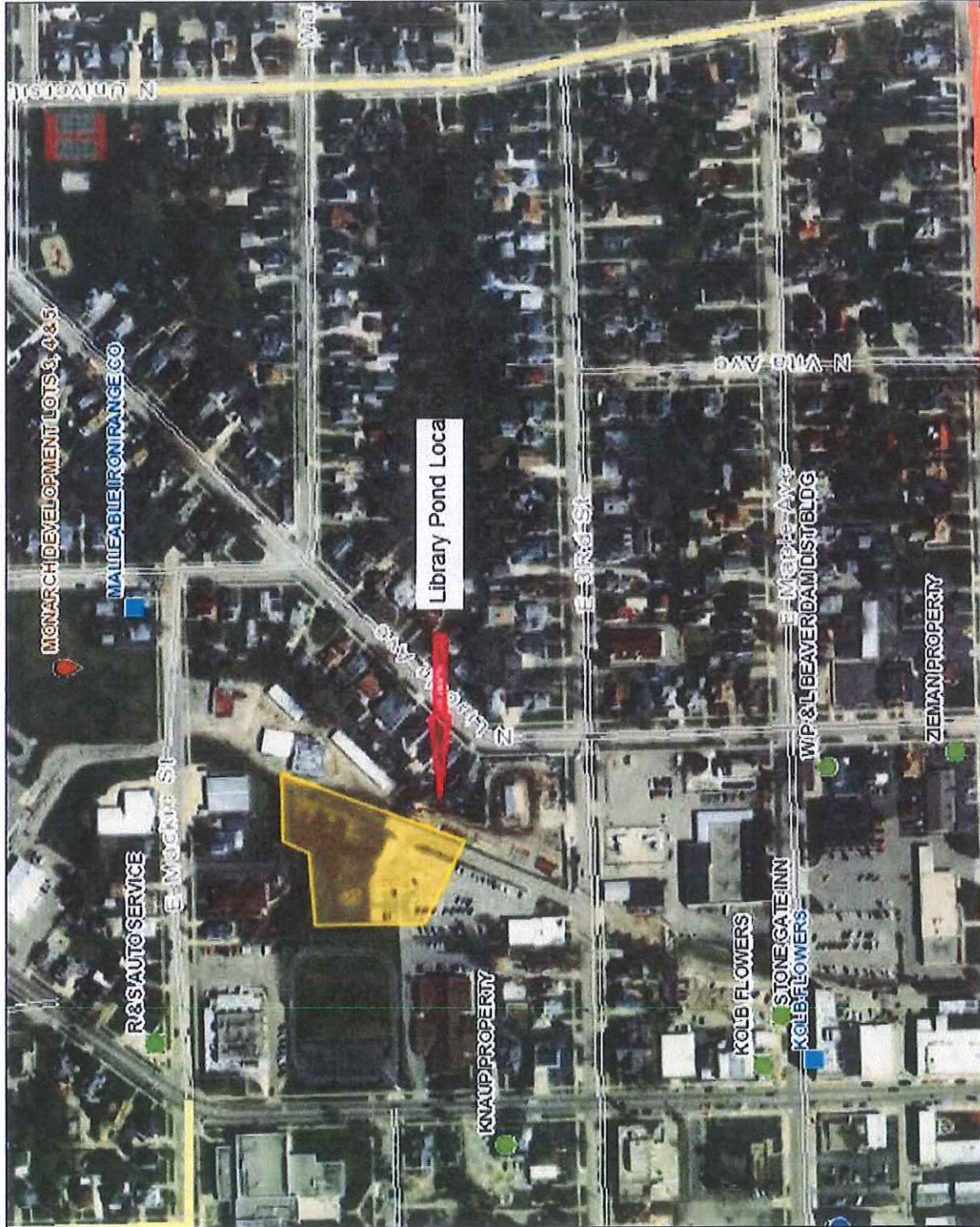
Signature of DNR Reviewer

Date Signed

9/24/15



Beaver Dam Library Pond - BRRTS Sites Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (SUDZ)
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water

Notes

DISCLAIMER: The information shown on these maps has been obtained from various sources, and is of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are they maps, in the traditional sense, of information about legal land ownership or public access. No warranty, expressed or implied, is made as to the accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR's Legal Notices web page: <http://dnr.wis.gov/legalnotices>

Note: Not all sites are mapped.

0.1 Miles

0.06

0

0.1

NAD_1983_HARN_Wisconsin_TM

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1:3,600





Beaver Dam Library Pond - SWDV Wetland/Wetland Indicators



Legend

- Wetland Class Points
 - Dammed pond
 - Excavated pond
 - Filled excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
 - Wetland
 - Upland
- Filled Areas
- NRCS Wetspots
- Wetland Indicators
- Rivers and Streams
- Open Water
- 2010 Air Photos (WROC)

Notes

DISCLAIMER: The information shown on these maps has been obtained from various sources and is of varying age, reliability, and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or liability of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wisconsin.gov/legal/>

0.1 Miles

0.06

0

0.1

NAD_1983_HARN_Wisconsin_TM
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Gilbertson, Mike - DNR

From: Uriah Monday <umonday@msa-ps.com>
Sent: Thursday, September 24, 2015 11:41 AM
To: Nedland, Thomas S - DNR
Cc: Gilbertson, Mike - DNR
Subject: RE: Monarch Site Stormwater Pond, Beaver Dam
Attachments: 00218085 Pond Site Substitution Request 092115.pdf

Hey Tom, you are probably out on sites on such a nice day as today, but Mike Gilbertson called me with a further question on this project.

We've filed for yet another change-of-site request for this project, this time about a block south of where it was previously planned for. The paperwork filed with Mike is attached – there is a SWDV map on page 14. Mike's office needs to be assured that wetlands are not an issue on this site location. Would you be able to give an opinion? I can have site photos provided if that will help.

Let me know – thanks.

U

From: Nedland, Thomas S - DNR [mailto:Thomas.Nedland@wisconsin.gov]
Sent: Monday, January 26, 2015 3:04 PM
To: Hunt, Daniel E - DNR; Uriah Monday; Gilbertson, Mike - DNR
Subject: RE: Monarch Site Stormwater Pond, Beaver Dam

Hi Uriah,

Dan Hunt is familiar with the site (see below). DNR does not have any wetland concerns.

Please let Dan or I know if there is anything else we can do to help with your project.

Sincerely,

Tom

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Thomas S Nedland, P.W.S.
Wetland Identification Coordinator
Wisconsin Department of Natural Resources
625 E. County Road Y, Suite 700, Oshkosh, WI 54901
Phone: 920-303-5439
Cell Phone: 920-420-5996
Email: Thomas.Nedland@Wisconsin.gov



dnr.wi.gov



From: Hunt, Daniel E - DNR
Sent: Monday, January 26, 2015 2:52 PM
To: Nedland, Thomas S - DNR
Subject: RE: Monarch Site Stormwater Pond, Beaver Dam

I don't think I'd be too concerned about a pond in that location. That area used to be a superfund site. It was all heavy industrial.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Dan Hunt
Waterway and Wetland Regulation Specialist
Wisconsin Department of Natural Resources
Horicon Service Center
N7725 Highway 28
Horicon, WI, 53032
Phone: (920) 387-7878
Fax: (920) 387-7888
DanielE.Hunt@wisconsin.gov



dnr.wi.gov



From: Nedland, Thomas S - DNR
Sent: Monday, January 26, 2015 2:43 PM
To: Hunt, Daniel E - DNR
Subject: RE: Monarch Site Stormwater Pond, Beaver Dam

I don't have a map, but I think it is the large open field I show on the attached figure.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Thomas S Nedland, P.W.S.
Wetland Identification Coordinator
Wisconsin Department of Natural Resources
625 E. County Road Y, Suite 700, Oshkosh, WI 54901
Phone: 920-303-5439
Cell Phone: 920-420-5996
Email: Thomas.Nedland@Wisconsin.gov



dnr.wi.gov



From: Hunt, Daniel E - DNR
Sent: Monday, January 26, 2015 1:48 PM
To: Nedland, Thomas S - DNR
Subject: RE: Monarch Site Stormwater Pond, Beaver Dam

Tom,

Where exactly are they looking at putting the storm water pond? Do you have a map?

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Dan Hunt

Waterway and Wetland Regulation Specialist

Wisconsin Department of Natural Resources

Horicon Service Center

N7725 Highway 28

Horicon, WI, 53032

Phone: (920) 387-7878

Fax: (920) 387-7888

DanielE.Hunt@wisconsin.gov



dnr.wi.gov



From: Nedland, Thomas S - DNR

Sent: Monday, January 26, 2015 1:29 PM

To: Hunt, Daniel E - DNR

Subject: FW: Monarch Site Stormwater Pond, Beaver Dam

What do you know about this site (see link below)?

Think it's clear of wetlands?

Thanks,

Tom

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Thomas S Nedland, P.W.S.

Wetland Identification Coordinator

Wisconsin Department of Natural Resources

625 E. County Road Y, Suite 700, Oshkosh, WI 54901

Phone: 920-303-5439

Cell Phone: 920-420-5996

Email: Thomas.Nedland@Wisconsin.gov



dnr.wi.gov



From: Uriah Monday [<mailto:umonday@msa-ps.com>]

Sent: Monday, January 26, 2015 1:11 PM

To: Nedland, Thomas S - DNR

Cc: Gilbertson, Mike - DNR

Subject: Monarch Site Stormwater Pond, Beaver Dam

Hi Tom,

I have been communicating with Mike Gilbertson in the Fish Hatchery Road office, regarding a UNPS construction grant in the City of Beaver Dam for construction of a stormwater management pond. The site is located at the following lat/long:

43.4627,-88.8331

The SWDV shows wetland indicator soils. However, this site has a long history of having been altered – it used to be the site of a heavy industry that was torn down and cleaned up about 25 years ago. If you have historic aerial photos available to you, something of 1990 vintage or before should show you how it once looked.

Mike's program needs to be provided assurance that the work we are proposing will not be located in a wetland.

I'd like to speak to you about the site, and determine what steps need to be taken. I am hoping that a phone conversation between the two of us while viewing the site on Google Street View will suffice. If you still have questions, I am then hoping that Dan Hunt at the Horicon office can give you additional insight (I believe Dan is quite familiar with the location) and/or using the Wetland ID program to provide the necessary documentation will bring the issue to a close.

The site is southwest of the corner of Main and Jackson in Beaver Dam, and can be viewed on Google maps here:

<https://www.google.com/maps/place/Beaver+Dam,+WI+53916/@43.4626466,-88.8336631,134m/data=!3m1!1e3!4m2!3m1!1s0x88069f0a5ec13473:0x114bb8ae5ad308f9>

And on Street View here:

<https://www.google.com/maps/place/Beaver+Dam,+WI+53916/@43.462938,-88.832788,3a,75y,180h,90t/data=!3m4!1e1!3m2!1sDSVZRDC37EfWjcxwwMrG8A!2e0!4m2!3m1!1s0x88069f0a5ec13473:0x114bb8ae5ad308f9>

Is there a time in the next few days we could discuss?



Uriah Monday, PE, CFM | Senior Project Engineer

MSA Professional Services, Inc.

Desk: (608) 242-6623

Mobile: (608) 575-1720

**ESTIMATE OF PROBABLE CONSTRUCTION COST
BEAVER DAM LIBRARY WATER QUALITY POND**

Item	Description	Unit	Unit Price	Quantity	Extension
1	Mobilization, Bonds, Insurance, & Permits	LS	\$24,000.00	1	\$24,000
2	Erosion Control	LS	\$2,500	1	\$2,500
3	Unclassified Excavation	CY	\$6	20,630	\$123,780
4	Truck Excess Material Off-Site	CY	\$3	18,020	\$54,060
5	Pond Liner	SY	\$5	7,040	\$35,200
6	Inlet & Outlet Piping Reconfiguration	LF	\$80	140	\$11,200
7	Storm Manhole Structures	EA	\$4,000	2	\$8,000
8	Pond Outlet Structure	EA	\$3,000	1	\$3,000
9	Topsoiling & Re-Stabilization w/Grass Turf	SY	\$4	5,210	\$20,840
10	Erosion Matting	SY	\$2	5,210	\$10,420
11	Building Demo & Removal (Former Senior Center)	LS	\$95,000	1	\$95,000
12	Crushed Aggregate Base Course	TON	\$9	2,030	\$18,270
13	Asphalt Pavement	SY	\$15	4,017	\$60,255
14	Re-stripe Parking Lines & Misc.	LS	\$5,000	1	\$5,000
	DIRECT COST SUBTOTAL				\$471,525
	Design Engineering Costs ¹		10%		\$47,150
	Construction Services Costs ²		5%		\$23,580
	PROBABLE CONSTRUCTION COST ESTIMATE				\$542,255

Notes:

1. Design Engineering Cost to include Geotechnical, Survey, Design, Plans & Specs, and Bidding.
2. Construction Services Cost to include Construction Mgmt. & Construction Observation.
3. The quantities and prices are the best estimate at this time and should be re-computed after a more detailed engineering study is performed and plans are prepared.
4. The costs associated with administration, financing, and inflation (due to delayed project phasing) are not included. All costs are assumed to be 2016 construction costs unless noted otherwise.
5. Costs are based upon "normal" construction conditions. There is no allowance for rock excavation, wet soil conditions, contaminated soils, environmental concerns, endangered species issues, or any other un-foreseen conditions that would require extra effort from the contractor.

Project Name: Recheck Water Quality Pond

- ☒ ☐ <http://dnrm.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer>
- ☒ ☐ b. Wetlands: If this project will install an urban storm water treatment practice, the applicant has determined that the practice will not be located in any wetland based on consulting both the Wisconsin Wetland Inventory and Wetland Indicators maps. Check the box to indicate both map layers have been consulted.
- ☒ Wisconsin Wetland Inventory and Wetland Indicators at:
<http://dnrm.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer.wetlands>.
- or
- ☐ A wetland delineation completed by a qualified person shows the BMP will not encroach upon a wetland.
- ☒ ☐ 10. This is a proposed urban project which requires that the applicant have control of the property. If "Yes," please check the applicable statement below:
- ☐ a. The applicant is stating that it currently owns the property or has control of the property through an easement or a construction and maintenance agreement.
- ☐ b. The applicant has attached documentation to this application that states that the current owner of the property is willing to enter into a construction and maintenance agreement with the grant applicant prior to the award of the grant.
- ☒ c. The applicant proposes purchasing the property (fee title) or an interest in the property (easement), and the applicant has attached documentation (e.g., option to purchase or offer to purchase) that the sale will be completed prior to the award of the grant.
- ☒ 11. Applicant declares that *at least one* of the two statements below is **TRUE**. Please check the "Yes" box to indicate that the statement is true.
- ☒ a. The applicant is not the University of Wisconsin Board of Regents.
- ☐ b. The applicant is the University of Wisconsin Board of Regents and the project will develop recommendations for a UW Campus area located in a municipality that meets **both** of the following criteria:
- ☐ i. The applicant is required to obtain a permit under subchapter I. of ch. NR 216; and
- ☐ ii. The municipality is located either in a priority watershed or lake area identified under s. 281.65, Wis. Stats., or in an area of concern as identified by the International Joint Commission under the Great Lakes Water Quality Agreement.
- Yes N/A 12. This application is:
- ☐ ☒ a. a joint application among local units of government, and
- ☐ b. a DRAFT Inter-Governmental Agreement is attached (see Attachment I).
13. This applicant currently has:
- ☐ ☒ a. existing Runoff Management grants,
- ☐ b. and the applicant hereby certifies that all such grant projects shall be completed within the applicable grant period for each.

Part II. Competitive Elements

Question 1. Fiscal Accountability

A. Timeline and Source of Staff

For each applicable milestone listed below, fill in the appropriate data:

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	1/2014 1/2016	City's engineering consultant
Obtaining required permits	2/2014 1/2016	City's engineering consultant
Landowner contacts	10/2013 N/A	City Public Works Dept. OWNED BY CITY

COPY OF ORIGINAL
GRANT APPLICATION

REVISED FOR SUBSTITUTION
REQUEST, SEPT. 2015

Project Name: Recheck Water Quality Pond

UNPS&SW Program – Construction Grant
Application

Form 8700-299 (R 1/13)

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Bidding	3/2014 4/2016	City's engineering consultant
DNR approvals	3/2014 4/2016	City's engineering consultant
Contract signing	4/2014 5/2016	City Public Works Dept.
BMP construction	8/2014 9/2016	Contractor chosen by public bid
Site inspection and certification	10/2014 10/2016	City's engineering consultant
Project evaluation	12/2014 12/2016	City's engineering consultant
Purchase street sweeper	N/A	N/A
Other (specify)		

B.1. Adequate Financial Budget

Provide the following information for the project. The state share may not exceed 50% of eligible costs. The grant amount is capped at \$150,000 for the installation of eligible BMPs and a maximum of \$50,000 for property acquisition.

FINANCIAL BUDGET TABLE

A	B	C
Project Activity for Which DNR Funding is Requested	Estimated Total Cost (\$)	Amount from Column B Eligible for DNR Cost Sharing (\$)
Construction Components:		
Mobilization/Bonds/Insurance/Permits	\$24,000 \$28,300	\$24,000 \$28,300
Perimeter Erosion Control	\$2,500 \$2,175	\$2,500 \$2,175
Excavation/Hauling/Disposal (non-contaminated soil)	\$177,840 \$93,280	\$177,840 \$93,280
Excavation/Hauling/Disposal (contaminated soil)	\$0 \$385,000	\$0 \$385,000
Pond Liner	\$35,200 \$28,160	\$35,200 \$28,160
Outlet Structure	✓\$3,000	✓\$3,000
Site Restoration (STABILIZATION/LANDSCAPING)	\$31,260 \$14,040	\$31,260 \$14,040
Street Restoration PARKING LOT RECONSTRUCT.	\$83,525 \$6,370	\$83,525 \$6,370
SEE ATTACHED CONCEPT PLAN & DETAILED ENGINEER'S ESTIMATE		
1. Construction Subtotal	\$357,325 \$560,325	\$357,325 \$560,325
2. Design, Construction Management and Inspection	\$70,730 \$35,000	\$70,730 \$35,000
3. Storm Sewer Reroute	\$19,200 \$34,800	\$19,200 \$34,800
4. Structure Removal - FORMER SENIOR CENTER	\$95,000 \$0	\$95,000 \$0
5. Subtotal (add Rows 1 through 4)	\$542,255 \$630,125	\$542,255 \$630,125
6. Property Acquisition (Fee Title and Easement)	✓\$0	✓\$0
7. Grand Total (add Rows 5 and 6)	\$542,255 \$630,125	\$542,255 \$630,125

B.1. (continued) Cost Sharing Worksheet

Eligible Costs:

- Construction and Design
- Property Acquisition, Fee Title, and Easement

Prorate %	Cost-Share %
100% ✓	50% ✓
100% ✓	50% ✓

\$	\$271,127.50
\$	\$15,002.50
\$	0

Cap Test:

Project Name: Recheck Water Quality Pond

UNPS&SW Program – Construction Grant
Application

Form 8700-299 (R 1/13)

Page 7 of 58

10. Construction and Design (Row 8 or \$150,000, whichever is less)	\$	150,000	✓
11. Property Acquisition (Row 9 or \$50,000, whichever is less)	\$	0	✓
12. Maximum State Share (sum of Rows 10. + 11.)	\$	150,000	✓
State and Local Share:			
13. Requested State-Share Amount + Requested Grant Amount	\$	150,000	✓
14. Local-Share Amount (Row 7, Column B, less Row 13)]	\$	292,255 - 150,000	✓
Local-Share Source(s)			
Storm Water Utility Funds ✓			

B. 2. Method used to Calculate Cost Estimates: Check the appropriate box.

- ☐ 1. Project costs are based on completed design and competitive bid on the project. Construction components and costs above should be detailed. Provide documentation attached to this application.
- ☐ 2. Project costs are based on completed design with materials and labor costs based on similar, recently bid projects. Construction components above should be detailed. Provide documentation in this application.
- ☒ 3. Project design is not complete; however, the proposed project and costs are based on similar and recent projects and costs. Provide as much construction detail above as possible. Provide documentation for this method in this application.
- ☐ 4. Project design is not complete and the cost estimate is based on an average or a range of projects and costs. Provide as much construction detail above as possible. Provide documentation for this method in this application.
- ☐ 5. Project and costs are less specific than choices above.

C. Cost-Effectiveness. Please provide narrative answers to Parts C.1. and C.2. You are advised to answer Part C.3., though you are not required to do so.

1. Describe the environmental benefits this project will achieve.
- ✓ This project will reduce the total suspended solids, nutrient and heavy metals loading to the Beaver Dam River and ultimately the Rock River, by routing runoff through the proposed wet detention basin.

2. Describe why the proposed management measures are a reasonable means to attain the project benefits based upon such factors as cost, effectiveness, site feasibility, available technical standards, and practicality.

- ✓ 1. The detention pond will be designed in accordance with DNR Conservation Practice Standard 1001, Wet Detention. Wet detention is accepted as a cost effective method to control suspended solids and attached pollutants.
- ✓ 2. The proposed project is located along an established City storm sewer trunk line within a vacant property. This limits the amount of storm sewer reroutes required.
3. A citywide study (MSA Professional Services, March 2011) of possible locations for siting wet detention ponds for TSS reduction found the Recheck Pond to be the #1 ranked alternative of 8 alternative locations recommended for BMP construction.

3. If you evaluated one or more alternative management measures, describe why the alternative(s) is not being recommended.
- The City's Stormwater Quality Improvement Plan conducted an evaluation of possible sites for construction of stormwater management practices to reduce TSS in runoff. After review eight sites were proposed and then ranked by cost-effectiveness. The Recheck Pond was ranked number one, due to it's location, general availability of land for purchase, cost effectiveness, and storm sewer relief capabilities. While the City eventually plans on having all of the sites constructed, at this time the Recheck Pond is the top priority.

Question 2. Project Evaluation Strategy

SEE
ATTACHED
COMMENT-
ARY

**Commentary on Cost Effectiveness for proposed Beaver Dam Library Water Quality Pond
(Item "n" of Substitution Form 8700-308):**

A copy of Part I Question 1.C from the original UNPS Grant Application is attached.

Item C.2 references the Rechek Pond as the #1 ranked alternative from the March 2011 Citywide study. The original application Pages 48 through 52 (of 58) is an excerpt from the "Recommendations" section of that March 2011 plan, showing summary tables of pond pollutant removal efficiency (varies based on street sweeping practices).

As part of the City's annual reporting for 2012 water quality activities required under their WPDES permit, these tables were updated to reflect ponds constructed in 2011 and 2012 (i.e. after the 2011 report was written) and the adoption of a street-sweeping regimen. No other ponds have been constructed in the City since then for existing urban areas. The table from the 2012 Annual Report is therefore attached.

A markup has been added to this table, comparing the proposed "Library Pond" pollutant reduction capabilities and cost to that of the original "Rechek Pond". It can be seen that the Library Pond has the ability to accommodate more pollutants due to its location further down in the watershed ("Direct Watershed Load") and while the "Pond Removal Efficiency" is not as great, the net result of "TSS Load Trapped" is significantly larger. The "Pond Construction Cost" for the Library Pond is marginally larger, and therefore the "Cost Effectiveness" measured in dollars per ton is significantly improved.

Not GERMANE TO
COMPARISON

Table 11 - UPDATED 3/21/13 FOR 2012 ANNUAL REPORT

Minimum Structural Improvements Needed to Achieve 40% TSS Reduction with the Current Mechanical Street Sweeping Program

BMP ID	BMP Location	BMP Type	Direct Watershed Load (tons/yr)	Upstream Load (tons/yr)	Total Load (tons/yr)	Net TSS Load (tons/yr)	Pond Removal Efficiency	Street Sweeping Efficiency	Net BMP Removal Efficiency	TSS Load Trapped (tons/yr)	Citywide TSS Reduction	Cumulative Citywide TSS Reduction	Pond Construction Cost	Cost Effectiveness (\$/ton)	Rank
SS	Citywide	Street Sweeping	426.10	0.00	426.10	426.10	0.0%	3.8%	3.8%	16.2	3.80%	3.80%			
2P	Northwest Lakeside Pond	Wet Basin	0.21	0.00	0.21	0.21	88.5%	3.8%	84.7%	0.18	0.04%	3.84%			
3P	South Lakeside Pond	Wet Basin	0.11	0.00	0.11	0.11	88.5%	3.8%	84.7%	0.09	0.02%	3.86%			
4P	General Lakeside Pond	Wet Basin	2.52	0.00	2.52	2.52	88.4%	3.8%	85.6%	2.16	0.51%	4.37%			
74P	West Business Park Pond	Wet Basin	5.50	0.00	5.50	5.50	92.9%	3.8%	89.1%	4.90	1.15%	5.52%			
75P	East Business Park Pond	Wet Basin	2.46	0.33	2.79	2.79	88.3%	3.8%	84.5%	2.35	0.55%	6.07%			
300P	City A Business Park Pond	Wet Basin	2.18	0.00	2.18	2.18	90.5%	3.8%	86.7%	1.89	0.44%	6.51%			
1P	West Lakeside Pond	Wet Basin	1.19	21.06	22.25	22.25	83.9%	3.8%	80.1%	17.62	4.18%	10.6%			
81P	South Business Park Pond	Wet Basin	5.97	0.45	6.42	6.42	78.1%	3.8%	75.3%	4.84	1.14%	11.8%			
85P	Beech Pond USA 151	Wet Basin	48.91	0.00	48.91	48.91	83.5%	3.8%	79.7%	39.89	9.15%	20.9%			
76P	Judson Pond	Wet Basin	1.97	0.00	1.97	1.97	92.1%	3.8%	88.3%	1.74	0.41%	23.38%			
65P	Cherry Street Pond	Infiltration	3.57	0.00	3.57	3.57	72.6%	3.8%	68.5%	2.45	0.55%	24.97%			
70P	Merrill Pond	Semi Wet Basin	0.13	0.00	0.13	0.13	59.8%	3.8%	56.0%	0.08	0.02%	25.98%			
200P	Family Center Pond	Wet Basin	7.46	0.00	7.46	7.46	92.4%	3.8%	89.6%	6.6	1.55%	33.54%			
Prop 007c*	Maple Street - Recheck Pond	Wet Basin	6.43	0.98	7.41	7.41	74.6%	3.8%	71.5%	5.23	1.26%	44.77%	\$ 328,385	\$ 62,016	1
Prop 77P	Reynolds School Pond	Wet Basin	23.44	0.00	23.44	23.44	72.3%	3.8%	68.5%	16.1	3.77%	28.54%	\$ 66,007	\$ 4,277	2
Prop 78P	Reynolds School Pond	Wet Basin	2.80	0.00	2.80	2.80	84.0%	3.8%	80.2%	2.2	0.53%	29.06%	\$ 30,423	\$ 14,889	3
Prop 851a	SE of Liberty and Center St. - Adj to School	Wet Basin	18.29	2.77	21.06	21.06	59.9%	3.8%	56.1%	11.8	2.77%	31.84%	\$ 176,898	\$ 15,143	4
Prop 84a	Pearl Street Pond	Wet Basin	10.11	0.00	10.11	10.11	72.2%	3.8%	68.4%	6.9	1.52%	33.48%	\$ 150,537	\$ 21,794	5
Prop 84b	Pearl Street Pond	Wet Basin	8.94	0.00	8.94	8.94	81.1%	3.8%	77.3%	6.9	1.52%	35.00%	\$ 185,130	\$ 26,791	6
Prop 84g	Pearl Street Pond	Wet Basin	11.44	0.00	11.44	11.44	68.3%	3.8%	64.5%	9.8	2.22%	37.4%	\$ 350,794	\$ 55,873	7
TOTAL \$													\$ 1,293,839		

* Proposed Pond 087c is recommended in all alternatives due to its flood control capacity. As determined in a study previously completed by the City, results do not include the existing pond 80P, since it achieves no TSS reduction due to being a dry basin. The cost effectiveness of converting 80P to a wet pond didn't rank high enough to warrant inclusion as a recommendation.

LIBRARY POND

WET BASIN

28.4

28.4

63.6%

3.8%

59.8%

17.0

3.99%

\$31,897

