State of Wisconsin Department of Natural Resources Bureau of Watershed Management PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Watershed Adaptive Management Request

Form 3200-139 (1/12)

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Notice: Pursuant to s. NR 217.18, Wis. Adm. Code, this form must be completed and submitted to the Department at the time of the reissuance of an existing WPDES (Wisconsin pollutant discharge elimination system) permit to request adaptive management for phosphorus water quality based effluent limits (WQBEL). Failure to provide all requested information may result in denial of your request. Personal information collected will be used for administrative purposes and may be provided to requestors to the extent required by Wisconsin Open Records law [ss. 19.31-19.39, Wis. Stats.].

Type of Request:										
☐ This is the formal adaptive management request as required in s. NR 217.18(2) ☐ This is a preliminary adaptive management request (to be submitted as part of facility planning.)										
Facility and Permit Info	mation		E MAL							
Facility Name Village of Deerfield WWTF								DES Permit No. _ 0023744		
Facility Address 205 North Industrial Park Drive				City Deerfield					State WI	ZIP Code 53531
Receiving Water Tributary of Mud Creek										tanka ana ana ana ana ana ana ana ana ana
Owner Contact Informat	ion	限計劃								学员的 医异类病
Last Name First Name Paoli Nathan				MI				Phone No. (incl. area code) (608) 764-5820		
Street Address 205 North Industrial Park Drive FAX Number										
City Stat Deerfield \(\text{V}\)							dress Odeerfieldwi.com			
Facility Information					2000, 2413					NAME OF STREET
Provide listed information for ea				ı						
Required for AM Request	Wis. Administrative Code Reference			Conclusion				Evidence/Source of information (attach as needed)		
1. NPS contribute at least	s. NR 217.	18(2)(b))	X	NPS contributes at	least 5	0%	See attached Presto Lite Report		
50% of total P contribution				NPS DOES NOT contribute a least 50%				for Mud Creek Watershed		
2. WQBEL Requires Filtration	s. NR 217.18(2)(c)			X	Filtration required					
			☐ Filtration NOT required							
3. AM Plan	s. NR 217.18(2)(d)				Plan is Included – Page 3					
				☑ Plan is NOT Included						
				For a preliminary adaptive management request, AM						
					nlanagement reque plan not required	ot, AW				
Facility Operation and P	erforman	ce			作品自由					

1. Current P removal capability – If the facility is currently required by a WPDES permit to monitor effluent phosphorus (P) provide a summary of the influent and effluent annual average P concentrations for each of the past three (3) years. If permit required P data is not available, the applicant should provide any other P data that may be applicable and available. If no data is available, the Department may estimate the P effluent concentration by based on data from other similar facilities.

See November 2016 Compliance Alternatives Plan. Annual average effluent P concentrations have ranged from 0.34 to 0.50 in 2013-2015.

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2.	Facility Operation – Provide a summary description of ox describe storage procedures and the time periods when e		continuously d	
	See November 2016 Compliance Alternatives Plan. Trea removal.	tment is provided with activate	d sludge and bi	ological phosphorus
3.	Previous Studies – Reference or attach any facility plann	ing or evaluation study that average	aluated facility	
J,	capabilities (Note – Only include studies that are recent, we existing facility and current conditions).			
	See November 2016 Compliance Alternatives Plan.			
Ad	aptive Management Plan (s. NR 217.18(d))			
Ada	s section should summarize the Adaptive Manageme aptive Management Plan should be attached. Note: If tion is not required.			
Wa	tershed	Percent Contribution of App	licant Discharge	•
Acti	on Area (include map)		William Microsoft Control Cont	***************************************
Wa	tershed Characteristics and Timeline Justification			
Key	Proposed Actions			
Key	Goals and Measures for Determining Effectiveness		***************************************	
Part	ner(s)		No. No. of Contract of Contrac	

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Funding Sources

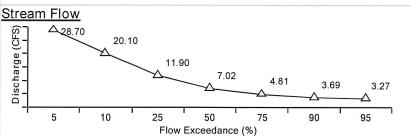
Adaptive I	Vlanac	ement	Request an	d Certification
Indiana related before the bushing	inflation distribution (Contract Con	Charles and the Control of the Contr	A IN A IN LABOR TO A LOCAL DESCRIPTION OF THE PARTY OF TH

Based on the information provided, I am requesting the Watershed Adaptive Management option to achieve compliance with phosphorus water quality standards in accordance with s. NR 217.19, Wis. Adm. Code. I certify that the information provided with this request is true, accurate and complete to the best of my knowledge.

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Print or type name of person submitting request*	Title
Elizabeth J. McCredie	Village Administrator
Signature of Official	Date Signed
Theabeth McChedie	Sept. 11, 2017
*Must be an Authorized Representative for the treatment facility	

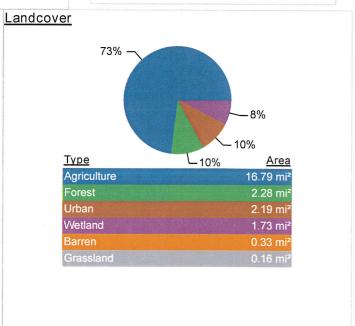
PRESTO-Lite Watershed Delineation Report







Tributary Stream Type -48% 3% 5% 24% <u>Type</u> L 11% Length Cool-Cold Headwater 27112 ft Cold Headwater 13373 ft Macroinvertebrates Coldwater 5215 ft Cool-Cold Mainstem 2839 ft **Cold Mainstem** Large River 0 ft



PRESTO Phosphorus Load Estimate

Avg. Annual Nonpoint Phosphorous Load (80% Confidence Interval)	4,396 (2,199 - 8,790) lbs
Number of Facilities (Individual Facility Information below)	1
Avg. Annual Point-source Phosphorous Load (2010 - 2012 total of all facilities)	290lbs
Most Likely Point : Nonpoint Phosphorous Ratio	6% : 94%
Low Estimate Point : Nonpoint Phosphorous Ratio (Adaptive Management)	12% : 88%

Adaptive Management Results

Facilities Discharging to the Mud Creek Watershed					Avg. Phosphorus
Facility Name	Permit #	Outfall #	Waste Type	Receiving Water	Load (lbs.) (2010 - 2012)
DEERFIELD WASTEWATER TREATMENT FACILITY	0023744	001	Municipal	Unnamed	290

Watershed Analysis Limitations

- This analysis relies on pre-defined catchments from the Wisconsin Hydrography Data-Plus and may not delineate from the
 exact location required. When assessing phosphorus loads for specific facility in support of efforts such as adaptive
 management, care should be taken to ensure that additional downstream point sources do not exist. For adaptive management
 information related to specific facilities please reference the PRESTO website http://dnr.wi.gov/topic/surfacewater/presto.html
- Delineation of watersheds is based on a topographic assessment and therefore do not account for modified drainage networks such as stormwater sewer systems and ditched agriculture.
- o If a watershed requires delineation from an exact location the user may use the desktop version of PRESTO that requires ESRI ArcGIS. The PRESTO tool and default datasets can be downloaded at http://dnr.wi.gov/topic/surfacewater/presto.html
- o Data sources for this report originate from the WDNR's Wisconsin Hydrography Data-Plus value-added dataset and the point and non-point source loading information including in the WDNR's PRESTO model.
- If you have questions about the report generated from the PRESTO-Lite application please contact: <u>DNRWATERQUALITYMODELING@wisconsin.gov</u>