Dane County Urban Water Quality Grant 2019 Annual Report



Dane County Land & Water Resources
November 18, 2019

Program Summary

Since 2005, Dane County has made funds available to municipalities for this cost-sharing program to improve the quality of urban stormwater runoff entering Dane County lakes, rivers and streams. In addition to improving water quality the program intends to increase public awareness of urban water quality issues and provide public education about urban stormwater quality through demonstration of improvement practices. Project goals are achieved through the construction of best management practices that provide cost-effective treatment of urban runoff.

Projects that treat urban runoff are generally eligible for cost-sharing up to 50% of the total cost of design and construction (with caps ranging from \$50,000 to \$500,000 through the years). Cost-share rates may vary by project and sometimes exceed 50%. To be considered for funding, practices must be scheduled to be constructed and fully functional within two years of the grant award. The full set of criteria is discussed in the project eligibility and selection criteria section.

The county's Urban Water Quality Grants have helped fund projects totaling more than \$10.7 million that are expected to remove more than 682,000 pounds of sediment and more than 1,200 pounds of phosphorus annually. A more detailed summary of efforts to date are included in Appendix 1.

Project Eligibility and Selection Criteria

Eligibility

Projects must meet a defined set of eligibility requirements to be considered for funding. The requirements may vary year to year and are announced annually. As of 2019, projects must meet the following requirements:

- Constructed and fully functional within 2 years of grant being awarded.
- Designed to improve the quality or reduce the volume of stormwater runoff from a developed drainage areas that don't meet current standards.
- Treat urban runoff draining to a lake, river, or stream.

Municipalities with projects that meet the minimum eligibility requirements can submit grant applications at any time. Applications are available on the Land and Water Resources Department web site.

Selection Criteria

Completed applications are evaluated by staff in the order they are received with respect to the following scoring criteria:

- Practice Performance [40%]
 - Annual sediment and/or phosphorus delivery
 - Sediment and/or phosphorus removal efficiency
 - Stormwater Runoff Volume Reduction
 - Contributing watershed area
- Cost [30%]
 - Total cost
 - Cost-Benefit ratio (assistance-efficiency)
 - Percent local match
- Demonstration Value [10%]
 - Location, public visibility
 - Public accessibility
 - Educational value
- Maintenance [20%]
 - Monitoring plan
 - Schedule
 - o Cost

Projects that meet minimum eligibility requirements and adequately address the scoring criteria are considered by the County Board for funding. Upon approval of the County Board, municipalities are awarded grants. To receive funds, municipalities must enter into a grant agreement, complete the project, and provide as-built certification.

A map of all projects that have been awarded grants is included in Appendix 1.

Program Benefits

Water Quality Improvements

Projects funded through this grant program trap sediment that would otherwise end up in rivers and lakes. Projects also trap phosphorus that contributes to excessive algae growth. One pound of phosphorus removed from the county's watersheds prevents 500 pounds of algae growth in area lakes.

On average, project funded through this program trap a pound of sediment each year for the life of the practice.

A comprehensive summary of water quality benefits is provided in Appendix 2.

Ecosystem Services

In addition to trapping sediment, phosphorus, litter, and other debris that pollute local waterways, stormwater management practices provide important ecosystem services. Stormwater detention basins provide habitat for pollinators with native vegetation. Stormwater infiltration basins also reduce the volume of stormwater runoff that can contribute to stream and lake flooding. Finally stormwater management facilities provide an opportunity to educate the surrounding community about stormwater runoff and its impacts when not adequately managed.

Targeted Efforts - Top Ten Outfalls

In 2013, at the direction of the County Board, staff developed a "Top Ten" list of urban outfalls. Any place that stormwater runoff from urbanized areas exits a drainage system may be considered an urban outfall. The "Top Ten" outfalls would be eligible for additional funding (75%) with no cap. The list was developed by meeting with riparian municipalities and requesting their top project locations. Input from the recreational users of the lakes and WI Department of Natural Resources staff was also taken into consideration. The DNR reviewed the list and concurred with the identified outfalls.

Projects included on the top ten list discharge large amounts of sediment and phosphorus to the lakes, have a favorable cost-benefit ratio, and are feasible to construct. Progress toward reducing sediment at these outfalls by 50% is shown in Table 1.

Table 1: Top 10 Outfall 50% TSS Reduction Goal Progress

Location	Municipality	Receiving Waterbody	Annual TSS Loading (lbs.)	Goal Progress
5701 Winnequah/Squaw Court	City of Monona	Lake Monona	65,494	15%
6117 Winnequah	City of Monona	Yahara River	17,483	0%
Pheasant Branch North	City of Middleton	Lake Mendota	33,500	194%
Pheasant Branch South	City of Middleton	Lake Mendota	350,000	27%
Pirate Island Road	City of Monona	Yahara River	31,834	44%
Schluter Beach	City of Monona	Lake Monona	43,195	9%
Starkweather Creek	City of Madison	Lake Monona	2,603,129	5%
Warner Park Outfall	City of Madison	Lake Mendota	125,660	0%
Willow Creek (UW Campus)	City of Madison	Lake Mendota	486,280	28%
Winnequah Park Outfall	City of Monona	Lake Monona	13,082	0%

A detailed summary of water quality improvements at these outfalls is included in Appendix 3.

Looking Forward

Retrofitting stormwater practices in developed urban areas is complex. Simply identifying locations with adequate space is a challenge. Working around existing utilities, public infrastructure and natural resources introduces design and construction challenges not encountered in new development. Most importantly, retrofit practices must be understood and valued by the established communities where they will be constructed and maintained.

The Land and Water Resources Department believes the Urban Water Quality Grant Program has been successful in achieving its stated goals, however there are always opportunities to improve. Based upon years of experience administering this grant, a number of changes have been implemented in 2019.

Volume control, or reduction in runoff volume, is now considered along with water quality. Previously, projects that targeted volume reductions only were not eligible. This change recognizes cumulative benefits of reducing stormwater volumes.

Instead of application periods with set deadlines, a continuous application has been instituted. An on-going application will reduce uncertainty associated the timing of the application period for municipalities.

Cost sharing is no longer dependent on outfall designation. All projects will be eligible for 50% cost share up to \$500,000. This change will ensure that large scale, quality projects have an opportunity for significant funding, regardless of location.

An open application and a uniform cost-sharing formula, regardless of outfall designation will prioritize performance over location and timing.

- 1. Urban Water Quality Grant Projects Map and Index
- 2. Project Summary 2015-2018
- 3. Top Ten Outfall Water Quality Goal Progress

Urban Water Quality Grant Projects Map and Index

Project Summary 2015-2018

Top Ten Outfall Water Quality Goal Progress

Map Id	Fund Year	Project Name	Grantee	Construction Status
1	2005	Pheasant Branch Sediment Basin	City of Middleton	Completed
2	2006	Farwell Street Sediment Basin	Village of McFarland	Completed
3	2006	Lake Edge Sediment Basin	City of Monona	Completed
4	2006	Parr Street Proprietary Device	City of Madison	Completed
5	2006	Bioretention Basin Near Kipp Corporation	City of Madison	Completed
6	2007	Acewood Pond Proprietary Device	City of Madison	Completed
7	2007	Erin Street Proprietary Device	City of Madison	Completed
8	2007	Dunn's Marsh Sediment Basin	City of Madison	Completed
9	2007	Linnerud Drive Inlet Filter Installation	City of Sun Prairie	Completed
10	2008	Shorewood Boulevard Bioretention Basin	Village of Shorewood Hills	Completed
11	2008	Nesbitt Road Sediment Basin	City of Fitchburg	Completed
12 13	2008 2008	Marsh/Siggelkow Rd Sediment Basin Commerce Park Sediment Basin 2	Village of McFarland	Completed
14	2008	Eton Ridge Raingardens	Village of McFarland City of Madison	Completed Completed
15	2008		Village of Shorewood Hills	Completed
16	2008	Topping Road Bioretention Basin Circle Close Bioretention Basin	Village of Shorewood Hills	Completed
17	2008	Commerce Park Sediment Basin 1		Completed
18	2008	Lakeview Park Sediment Basin	Village of McFarland City of Middleton	Completed
19	2009		Town of Middleton	· ·
20	2009	Sauk Point Estates Basin Western Green Park Bioretention Basins	Village of DeForest	Completed
20	2009	Westwynde Outlot 1 Basin Retrofit	City of Sun Prairie	Completed Completed
22	2009	Tennis Court Wet Detention Basin	Village of Maple Bluff	Completed
23	2009	Lake Mendota Drive Raingarden	City of Madison	Completed
24	2003	Apache Drive Wet Pond	City of Nadison City of Fitchburg	Completed
25	2011	Charlotte's Walk Pond	Town of Burke	Completed
26	2011	Osborn Drive Detention Basin	Village of McFarland	Completed
27	2011	Spring Harbor Bioretention	City of Madison	Completed
28	2011	Indian Hills Park Bioretention	City of Madison	Completed
29	2012	UW-Arboretum Pond 3	City of Madison	Completed
30	2012	Cherokee Park Ponds	City of Madison	Completed
31	2012	Valley Drive Detention Basin 2	Village of McFarland	Completed
32	2012	Lake Edge Basin Repair	City of Madison	Completed
33	2012	Railroad Ditch Basin	Village of Shorewood Hills	Completed
34	2012	McCoy Road Stormwater Basin	City of Sun Prairie	Completed
35	2012	Blackhawk Bioretention Basin	Village of Shorewood Hills	Completed
36	2013	Parmenter Street Stormwater Basin	City of Middleton	Completed
37	2013	Red Arrow Wet Pond	City of Fitchburg	Completed
38	2013	Firemen's Park Wet Detention Basin	City of Monona	Completed
39	2013	Starkweather Creek Phosphorus Treatment	City of Madison	Canceled
40	2013	Willow Creek Outfall	City of Madison	Completed
41	2013	Pine Ridge Bioretention	City of Fitchburg	Completed
42	2013	Cove Stormwater Treatment Structure	City of Monona	Completed
43	2014	Schluter Beach	City of Monona	Completed
44	2014	Downtown Square Stormwater Improvements	Village of DeForest	Completed
45	2014	Orchid Heights	City of Middleton	Completed
46	2015	McKee Farms Pond Improvement	City of Fitchburg	Completed
47	2015	Cherokee Pond at Wheeler Road & Bonner Lane	City of Madison	Completed
48	2015	Lacy Heights Bioretention	City of Fitchburg	Completed
49	2015	Liberty Square Stormwater Facility Improvements	City of Sun Prairie	Completed
50	2015	Graham Park, Pirate Island, Winnequah Park	City of Monona	Completed
51	2016	Hickory Woods Basin	Town of Middleton	Completed
52	2016	Byrne Pond Bioretention	City of Fitchburg	Pending
53	2017	Rimrock Greenway Wet Pond Conversion	City of Madison	Pending
54	2017	Wingra Park Screen Structure	City of Madison	Under construction
55	2017	Jacobson - Furey Pond	City of Madison	Under construction
56	2017	Nautilus Pond Retrofit	City of Madison	Pending
57	2017	Prairie Home Estates - Stormwater Facility	Town of Middleton	Pending
58	2017	Sauk Creek Greenway Iron Enhanced Biofilter	City of Madison	Pending
59	2017	East Towne Pond Reconstruction	City of Madison	Pending
60	2018	Edgehill Bioretention	Village of Shorewood Hills	Pending
61	2018	Bruce St Stormwater Pond Retrofit	City of Verona	Pending
62	2018	American Way Pond	City of Verona	Pending
63	2018	Ultra Low Dose Alum Pilot	City of Madison	Pending
64	2018	Industrial Park Bioswale Wet Basin Conversion	City of Stoughton	Pending
65	2018	Northwest Koshkonong Creek Regional Basin	City of Sun Prairie	Pending
66	2018	Oregon Ice Arena Stormwater Facility Rehabilitation	Village of Oregon	Under construction
67	2018	Stonebrook Estates Stormwater Facilities	Town of Middleton	Pending

UWQG Projects Completed 113 **Under Construction** Pending 20 44 51 (113) 151 73 25 21 113 (65) [14] [14] **59** 22 55 39 94 36 (18) (60) 14 78 (63) (58) 43 38 42 50 19 (13) 53 73 12 <u>[12]</u> [18] 48 (31 51 **61** 62 14 90 92 66 64 73 78 138 92

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Dane County Urban Water Quality Grant Project Summary 2005 - 2018

50 Completed Projects		Total Cost	Cost Share Grant Actual Cos Awarded Distrib		l l			Expected F Reduction	Phosphorus (lbs/year)	
		Projects \$10,733,148		\$3,7	72,848	682,3	73	1,2	269	
3 Und	er Construction	\$839,055	\$457,027			22,29	22,296		50	
13 Pe	nding Projects	\$6,225,028	\$1,884,253			302,063		902		
66 Total		\$17,797,231	\$6,344,430	\$3,772,848		1,006,732		2,221		
Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)	
omp	oleted Projects by Ye	ear (50)								
2005	Pheasant Branch Sediment Basin	City of Middleton	Lake Mendota	\$15,462	\$10,497	\$7,731	20%	557	,	
2005	Total			\$15,462	\$10,497	\$7,731	_	557	1	
2006	Bioretention Basin Near Kipp Corporation	City of Madison	Starkweather Creek/Lake Monona	\$18,620	\$15,414	\$9,310	80%	300	(
2006	Parr Street Proprietary Device	City of Madison	Lake Monona	\$57,850	\$28,925	\$28,925	20%	1,090		

Dane County Land & Water Resources Department

Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2006	Lake Edge Sediment Basin	City of Monona	Lake Monona	\$70,000	\$35,000	\$35,000	39%	31,775	37
2006	Farwell Street Sediment Basin	Village of McFarland	Lake Waubesa	\$94,780	\$35,000	\$35,000	40%	44,000	51
2006	Total			\$241,250	\$114,339	\$108,235		77,165	89
2007	Linnerud Drive Inlet Filter Installation	City of Sun Prairie	Koshkonong Creek	\$8,500	\$4,000	\$4,000	20%	990	1
2007	Acewood Pond Proprietary Device	City of Madison	Acewood Pond	\$39,250	\$19,625	\$19,625	20%	1,480	2
2007	Erin Street Proprietary Device	City of Madison	Lake Monona	\$60,150	\$30,075	\$30,075	20%	240	0
2007	Dunn's Marsh Sediment Basin	City of Madison	Dunn's Marsh	\$199,074	\$35,000	\$35,000	48%	12,240	14
2007	Total			\$306,974	\$88,700	\$88,700	_	14,950	17
2008	Circle Close Bioretention Basin	Village of Shorewood Hills	Lake Mendota	\$11,058	\$6,080	\$5,529	81%	354	0
2008	Topping Road Bioretention Basin	Village of Shorewood Hills	Lake Mendota	\$14,046	\$7,305	\$7,023	69%	226	0
2008	Shorewood Boulevard Bioretention Basin	Village of Shorewood Hills	Lake Mendota	\$20,092	\$9,445	\$10,046	36%	990	1
2008	Nesbitt Road Sediment Basin	City of Fitchburg	Goose Lake/Badger Mill Creek	\$28,490	\$15,625	\$14,245	80%	40,000	46
2008	Eton Ridge Raingardens	City of Madison	Lake Wingra	\$48,800	\$24,400	\$24,400	23%	7,870	9

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Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2008	Commerce Park	Village of McFarland	Lake Waubesa	\$77,000	\$35,000	\$35,000	80%	32,000	37
2000	Sediment Basin 1	Village of McFanand	Lake Waupesa	Φ77,000	φ35,000	φ35,000	0070	32,000	31
2008	Commerce Park Sediment Basin 2	Village of McFarland	Lake Waubesa	\$104,000	\$35,000	\$35,000	80%	5,600	6
2008	Marsh/Siggelkow Rd Sediment Basin	Village of McFarland	Lake Waubesa	\$110,000	\$35,000	\$35,000	70%	5,400	6
2008	Total			\$413,486	\$167,855	\$166,243	-	92,440	105
2009	Lake Mendota Drive Raingarden	City of Madison	Lake Mendota	\$11,574	\$6,000	\$5,787	27%	1,943	2
2009	Westwynde Outlot 1 Basin Retrofit	City of Sun Prairie	Token Creek	\$82,071	\$50,000	\$41,036	44%	9,371	11
2009	Western Green Park Bioretention Basins	Village of DeForest	Yahara River	\$93,301	\$50,000	\$46,650	73%	8,800	10
2009	Sauk Point Estates Basin	Town of Middleton	Badger Mill Creek	\$102,800	\$50,000	\$50,000	68%	23,180	27
2009	Lakeview Park Sediment Basin	City of Middleton	Lake Mendota	\$189,559	\$50,000	\$50,000	70%	24,820	29
2009	Tennis Court Wet Detention Basin	Village of Maple Bluff	Lake Mendota	\$390,840	\$50,000	\$50,000	90%	9,840	11
2009	Total			\$870,145	\$256,000	\$243,473		77,954	90
2011	Spring Harbor Bioretention	City of Madison	Lake Mendota	\$43,080	\$21,540	\$21,540	34%	2,048	2
2011	Indian Hills Park Bioretention	City of Madison	Lake Mendota	\$43,980	\$21,990	\$21,990	40%	2,372	3

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Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2011	Charlotte's Walk Pond	Town of Burke	Token Creek	\$128,753	\$50,000	\$50,000	91%	7,805	9
2011	Osborn Drive Detention Basin	Village of McFarland	Lake Waubesa	\$143,000	\$50,000	\$50,000	60%	31,422	36
2011	Apache Drive Wet Pond	City of Fitchburg	Nine Springs Creek	\$213,000	\$50,000	\$50,000	68%	5,627	6
2011	Total			\$571,813	\$193,530	\$193,530	-	49,274	56
2012	Lake Edge Basin Repair	City of Madison	Lake Monona	\$79,069	\$32,904	\$39,534	0%	0	0
2012	Blackhawk Bioretention Basin	Village of Shorewood Hills	Lake Mendota	\$89,940	\$44,969	\$44,969	100%	860	0
2012	Railroad Ditch Basin	Village of Shorewood	Lake Mendota	\$106,400	\$21,990	\$53,200	40%	14,940	19
2012	Valley Drive Detention Basin 2	Village of McFarland	Lake Waubesa	\$169,400	\$84,700	\$84,700	60%	23,000	62
2012	Cherokee Park Ponds	City of Madison	Yahara River (Lake Mendota)	\$700,000	\$100,000	\$100,000	72%	47,288	158
2012	McCoy Road Stormwater Basin	City of Sun Prairie	Koshkonong Creek	\$775,601	\$100,000	\$100,000	82%	8,000	16
2012	UW-Arboretum Pond 3	City of Madison	Wingra Creek (Lake Monona)	\$1,400,00 0	\$100,000	\$100,000	67%	33,536	120
2012	Total			\$3,320,410	\$484,563	\$522,403	_	127,624	375
2013	Pine Ridge Bioretention	City of Fitchburg	Nine Springs Creek	\$25,515	\$10,500	\$10,500	77%	1,215	4

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Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2013	Red Arrow Wet Pond	City of Fitchburg	Dunn's Marsh	\$67,487	\$25,525	\$25,525	41%	4,230	11
2013	Cove Stormwater Treatment Structure	City of Monona	Lake Monona	\$152,156	\$130,799	\$114,117	78%	4,847	6
2013	Firemen's Park Wet Detention Basin	City of Monona	Lake Monona	\$161,816	\$70,694	\$70,694	56%	3,778	4
2013	Parmenter Street Stormwater Basin	City of Middleton	Lake Mendota	\$355,000	\$266,250	\$266,250	66%	13,824	39
2013	Willow Creek Outfall	City of Madison	Lake Mendota	\$1,214,470	\$750,000	\$750,000	24%	63,442	45
2013	Total			\$1,976,443	\$1,253,768	\$1,237,086	-	91,336	109
2014	Orchid Heights	City of Middleton	Lake Mendota	\$167,459	\$229,337	\$125,594	80%	32,473	97
2014	Downtown Square Stormwater Improvements	Village of DeForest	Yahara River	\$383,782	\$100,000	\$100,000	80%	22,502	35
2014	Schluter Beach	City of Monona	Lake Monona	\$401,316	\$271,267	\$247,028	14%	1,888	2
2014	Total			\$952,557	\$600,604	\$472,622	-	56,863	134
2015	Lacy Heights Bioretention	City of Fitchburg		\$93,729	\$34,145	\$34,145	92%	5,836	26
2015	McKee Farms Pond Improvement	City of Fitchburg		\$214,131	\$100,000	\$100,000	46%	32,704	105
2015	Liberty Square Stormwater Facility Improvements	City of Sun Prairie		\$309,266	\$50,000	\$50,000	85%	19,899	48

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Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2015	Cherokee Pond at Wheeler Road & Bonner Lane	City of Madison		\$596,940	\$100,000	\$100,000	56%	17,912	53
2015	Graham Park, Pirate Island, Winnequah Park	City of Monona		\$675,504	\$317,400	\$317,400	10%	7,055	18
2015	Total			\$1,889,569	\$601,545	\$601,545	_	83,406	250
2016	Hickory Woods Basin	Town of Middleton		\$175,039	\$231,750	\$131,280	86%	10,804	43
2016	Total			\$175,039	\$231,750	\$131,280	-	10,804	43
Pendi	ing Projects by Year (1	3)							
2016	Byrne Pond Bioretention	City of Fitchburg		\$165,000	\$82,500		50%	10,800	40
2016	Total			\$165,000	\$82,500		-	10,800	40
2017	Sauk Creek Greenway Iron Enhanced Biofilter Conversion	City of Madison		\$170,000	\$85,000		2%	2,370	91
2017	Rimrock Greenway Wet Pond Conversion	City of Madison		\$212,000	\$100,000		80%	24,119	46
2017	Prairie Home Estates - Stormwater Management Facility	Town of Middleton		\$252,098	\$189,074		88%	11,622	52
2017	Nautilus Pond Retrofit	City of Madison		\$450,000	\$100,000		58%	22,176	91

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Year	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2017	East Towne Pond Reconstruction	City of Madison		\$820,000	\$615,000		66%	53,000	101
2017	Total			\$1,904,098	\$1,089,074		_	113,287	381
2018	American Way Pond	City of Verona		\$50,000	\$25,000		73%	40	38
2018	Ultra Low Dose Alum Pilot	City of Madison		\$50,000	\$25,000		0%	0	62
2018	Bruce St Stormwater Pond Retrofit	City of Verona		\$60,000	\$30,000		61%	6,145	13
2018	Edgehill Bioretention	Village of Shorewood		\$79,357	\$39,679		72%	6,864	29
2018	Industrial Park Bioswale Wet Basin Conversion	City of Stoughton		\$392,573	\$100,000		26%	8,259	11
2018	Stonebrook Estates Stormwater Facilities	Town of Middleton		\$524,000	\$393,000		56%	11,373	53
2018	Northwest Koshkonong Creek Regional Basin	City of Sun Prairie		\$3,000,00 0	\$100,000		81%	145,295	275
2018	Total			\$4,155,930	\$712,679		_	177,976	481
Unde	r construction Projects	by Year (3)							
2017	Wingra Park Screen Structure	City of Madison		\$350,000	\$100,000		40%	14,144	36
2017	Jacobson - Furey Pond	City of Madison		\$450,000	\$337,500		63%	7,745	13

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Year 	Project	Municipality	Receiving Water Body	Total Cost	County Cost Share Awarded	County Actual Cost Share	Expected Sediment Removal Efficiency	Expected Sediment Reduction (lbs/year)	Expected Phosphorus Reduction (lbs/year)
2017	Total		-	\$800,000	\$437,500			21,889	49
2018	Oregon Ice Arena Stormwater Facility Rehabilitation	Village of Oregon		\$39,055	\$19,527		40%	407	1
2018	Total		-	\$39,055	\$19,527		-	407	1

Urban Water Quality Grant Top Ten Outfall Progress

Goal: Reduce Sediment Delivery by 50%

Pollutant Reduction at Top Ten Outfalls as of Monday, November 18, 2019 7,737,847 lbs/yr Baseline Load: Reduce by 50% to 3,868,924 lbs/yr 12 Projects Trap 218,073 lbs/yr of Sediment and 469 lbs/yr of Phosphorus Goal Progress: 6%

5701 Winnequah/Squaw Court - Lake Monona

15% of Goal Achieved. 4,847 of 65,494 lbs. of sediment trapped annually. \$130,799 awarded to 1 project with costs totaling \$174,399

City of Monona - Cove Stormwater Treatment Structure (2013 - Completed) Sediment Reduction: 4,847 lbs., Phosphorus Reduction: 6 lbs.

6117 Winnequah - Lake Monona

0% of Goal Achieved. Baseline Sediment Load: 17,486 lbs.

Pheasant Branch North - Lake Mendota

194% of Goal Achieved. 32,473 of 33,500 lbs. of sediment trapped annually. \$229,337 awarded to 1 project with costs totaling \$394,607

City of Middleton - Orchid Heights (2014 - Completed)
Sediment Reduction: 32,473 lbs., Phosphorus Reduction: 97 lbs.

Pheasant Branch South - Lake Mendota

27% of Goal Achieved. 47,623 of 350,000 lbs. of sediment trapped annually. \$266,250 awarded to 5 projects with costs totaling \$355,000

City of Middleton - Parmenter Street Stormwater Basin (2013 - Completed)

Sediment Reduction: 13,824 lbs., Phosphorus Reduction: 39 lbs.

City of Middleton - Hickory Woods Basin (2016 - Completed)

Sediment Reduction: 10,804 lbs., Phosphorus Reduction: 43 lbs.

City of Middleton - Prairie Home Estates - Stormwater Management Facility (2017 - Pending)

Sediment Reduction: 11,622 lbs., Phosphorus Reduction: 52 lbs.

City of Middleton - Stonebrook Estates Stormwater Facilities (2018 - Pending)

Sediment Reduction: 11,373 lbs., Phosphorus Reduction: 53 lbs.

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Pollutant Reduction at Top Ten Outfalls as of Monday, November 18, 2019 7,737,847 lbs/yr Baseline Load: Reduce by 50% to 3,868,924 lbs/yr 12 Projects Trap 218,073 lbs/yr of Sediment and 469 lbs/yr of Phosphorus Goal Progress: 6%

City of Middleton - Donna Drive Basin Expansion (2019 - Pending Award)
Sediment Reduction: 0 lbs., Phosphorus Reduction: 0 lbs.

Pirate Island Road - Lake Monona

44% of Goal Achieved. 7,055 of 31,834 lbs. of sediment trapped annually. \$317,400 awarded to 1 project with costs totaling \$423,200

City of Monona - Graham Park, Pirate Island, Winnequah Park (2015 - Completed)
Sediment Reduction: 7,055 lbs., Phosphorus Reduction: 18 lbs.

Schluter Beach - Lake Monona

9% of Goal Achieved. 1,888 of 43,195 lbs. of sediment trapped annually. \$271,267 awarded to 1 project with costs totaling \$361,690

City of Monona - Schluter Beach (2014 - Completed)
Sediment Reduction: 1,888 lbs., Phosphorus Reduction: 2 lbs.

Starkweather Creek East Branch - Lake Monona

5% of Goal Achieved. 60,745 of 2,603,129 lbs. of sediment trapped annually. \$615,000 awarded to 2 projects with costs totaling \$820,000

City of Madison - East Towne Pond Reconstruction (2017 - Pending) Sediment Reduction: 53,000 lbs., Phosphorus Reduction: 101 lbs.

City of Madison - Jacobson - Furey Pond (2017 - Under construction)
Sediment Reduction: 7,745 lbs., Phosphorus Reduction: 13 lbs.

Warner Park - Lake Mendota

0% of Goal Achieved. Baseline Sediment Load: 125,660 lbs.

Willow Creek (UW Campus) - Lake Mendota

28% of Goal Achieved. 63,442 of 451,338 lbs. of sediment trapped annually. \$750,000 awarded to 1 project with costs totaling \$1,230,808

City of Madison - Willow Creek Outfall (2013 - Completed)
Sediment Reduction: 63,442 lbs., Phosphorus Reduction: 45 lbs.

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Pollutant Reduction at Top Ten Outfalls as of Monday, November 18, 2019 7,737,847 lbs/yr Baseline Load: Reduce by 50% to 3,868,924 lbs/yr 12 Projects Trap 218,073 lbs/yr of Sediment and 469 lbs/yr of Phosphorus Goal Progress: 6%

Winnequah Park - Lake Monona

0% of Goal Achieved. Baseline Sediment Load: 13,082 lbs.

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