

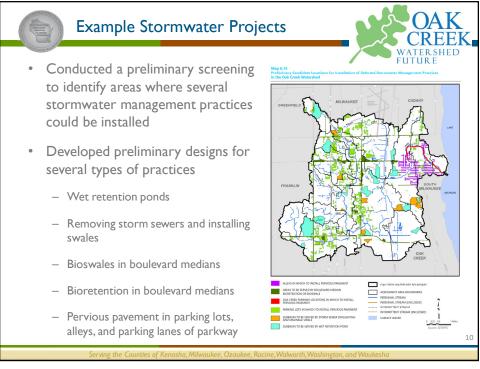


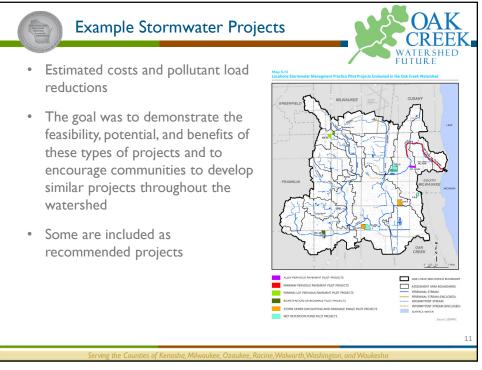


Table 6.1														FUT	TIR	SHEI F	
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Site Spee	ific Manag	gement Measures for	the Oak C	creek Wat	ershed												
			Site Ir	formation					Annual	Pollutant Red Fecal	actions			Costs (dollars)*		
	Focus Areas		Latoute	Longitude	Municipality	Owner	Management Action	TSS	Total Phosphorus (pounds)	Coliform Bacteria (trition cells)	Total Nitrogen (pounds)	BOD (pounds)	Key Project Partners	Capital	Annual O874	Potential Funding Sources ⁴	Prio
					manapping	0 mil	Oak Creek Watersheel. Wide Projec		(Jetomory)	(011111111111)	grown,	(2001103)		cap.a.	0.001		
OCW-01	WQ	Watershed-wide	n/a	n/a	City of South Milwaukee	n/a	Review and audit municipal code and ordinances to assess barriers to implementing green infrastructure	-	-				City of South Milwaukee	10,500		2, 10, , 27, 47, 52, 57, 65, 67	Med
OCW-02	wq	Watershed-wide	n/a	1/4	Municipalities, Milwaukee County	Municipalities, Milwaukee County	Develop and implement written dry- weather screening procedures for MS4 outfalls					120	Municipalities, Milmaukee County			57, 65, 66, 67	н
OCW-03	WQ	Watershed-wide	n/a	n/a	Municipalities, Milwaukee County	Municipalities, Milwaukee County	Develop and implement written procedures for investigating and responding to suspected or known illicit discharges into MS4s	-					Municipalities, Milwaukee County	141		57, 65, 66, 67	Hig
OCW-04	wq	Watershed-wide	n/a	n/a	Municipalities. Milwaukee County	Municipalities, Milwaukee County	Davelop and implement a system for					1.22	Municipalities, Miniaukee County			50, 57, 67	нқ
OCW-05	wo	Watershed-wide	n/a	n/a	Municipalities, Milwaukee	Municipalities, Milwaukee	post-construction stormwater BMPs Develop and implement a written salt						Municipalities, Milwaukee			27, 52, 57,	н
0CW-06	wo	Watershed-wide	n/a	n/a	County Municipalities, Milwaukee	County Municipalities, Milwaukee	application or salt reduction strategy Annually calibrate deicing and anti-icing						County Municipalities, Milwaukee			65, 67	н
OCW-07	wo	Watershed-wide	n/a	n/a	County, MMIA Municipalities, Milwaukee	County, MMIA Municipalities Milwaukee	Develop action benchmarks for bacteria						County, MMIA Municipalities. Milwaukee			10, 22, 52,	H
OCW-07	wo	Watershed-wide	n/a	n/a	County Municipalities, Milwaukee	County Municipalities, Milwaukee	for IDDE screening Develop an inventory and map of potential sources of fecal indicator						County Municipalities, Milwaukee			57, 65, 67	н
OCW-08	wq	Watershed-wide			County Municipalities, Milwaukee	County Municipalities,	bacteria for MS4 Develop a fecal indicator bacteria						County Municipalities, Milwaukee			57, 65, 67	His
OCM-09	wų	watersned-wide	n/a	n/a	County	Milwaukee County	elimination plan for MS4 Develop and execute a pilot project that		-				County			57, 65, 67	нқ
OCW-10	WQ, SWF	Watershed-wide	n/a	n/a	Municipalities, Milwaukee County	Mitwaukee County	evaluates an innovate BMP design or contracting mechanism for stormwater- related services	~	-				County			31, 44, 45, 57, 67	Med
							Grant Park Ravine Assessment An	ea (GPR)								3.4.5.6.7.	
						Milwaukee	Consider restoration of estuary area to						Milwaukee			8, 9, 10, 11, 15, 16, 20,	











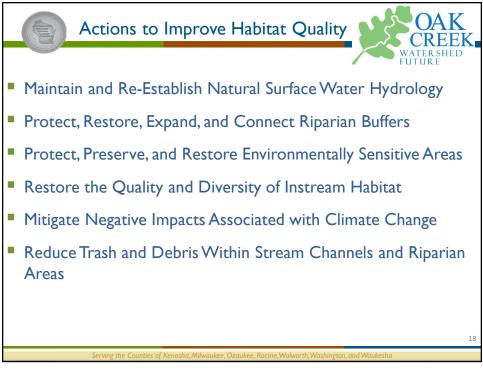




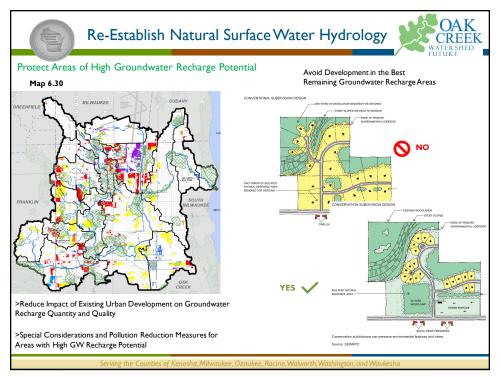


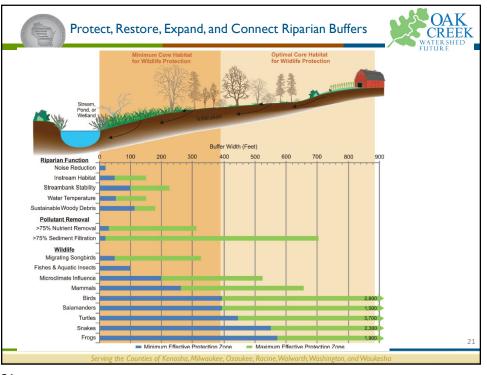


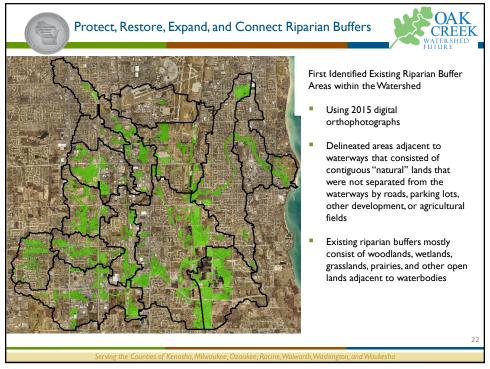


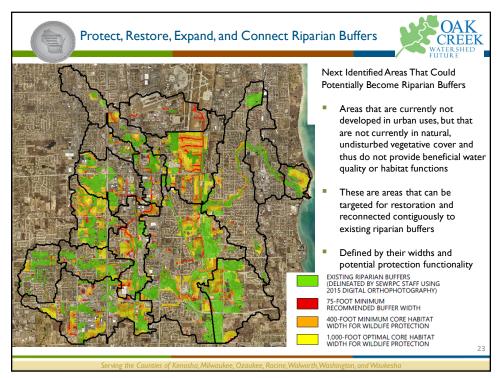


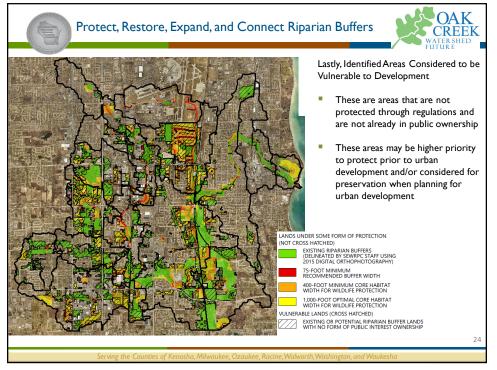


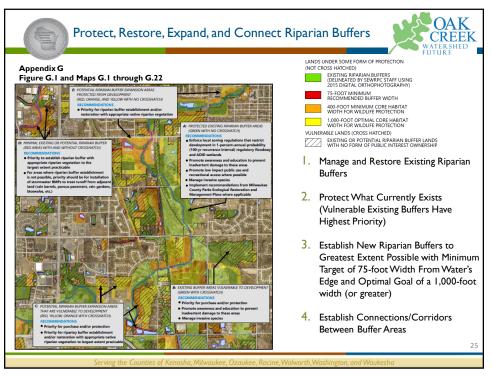


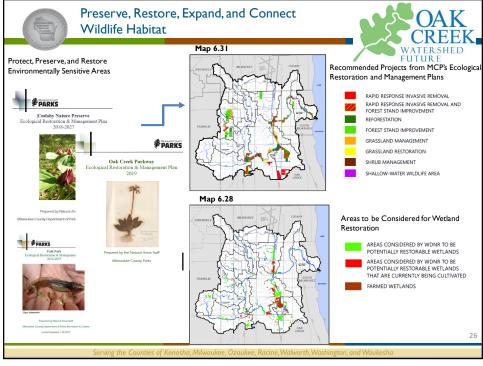




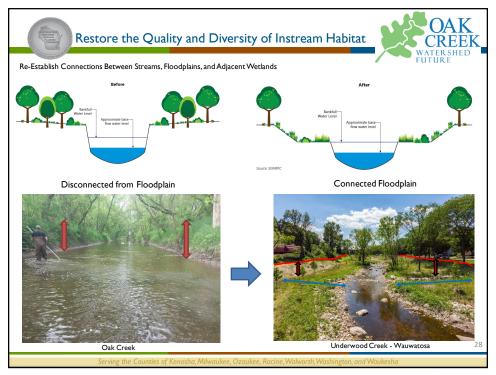
















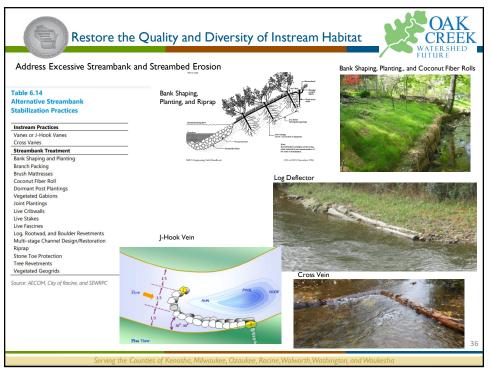




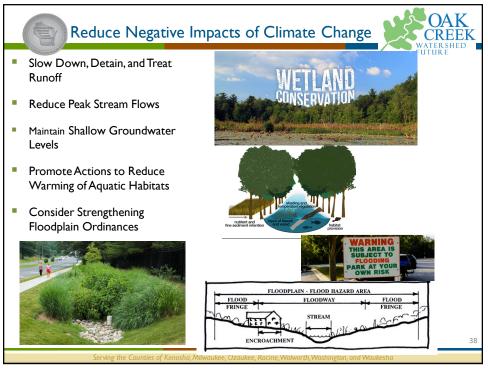






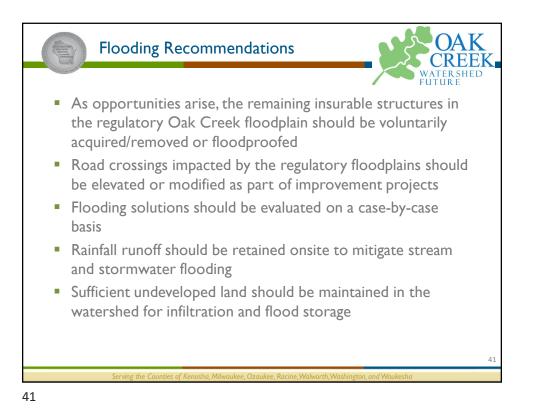


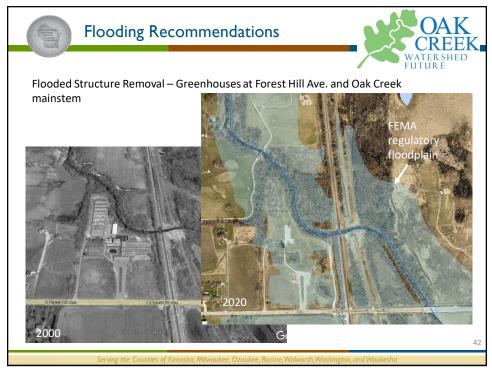
































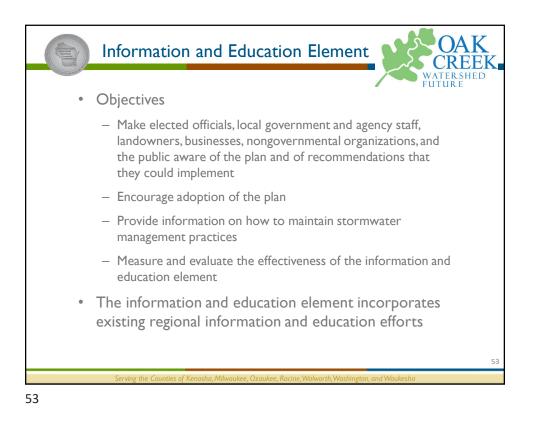
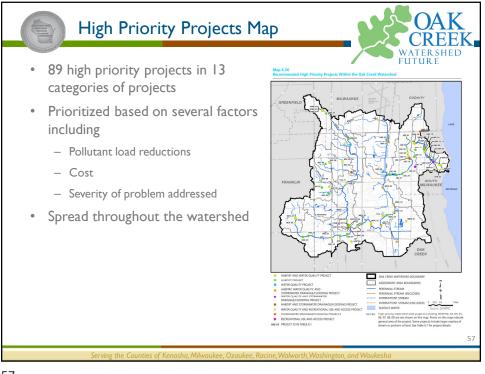


Table 6.20 Information and Education (I&E) E	ilement Matrix	for the Oak Creek Watersh	ed Restoration	Plan		CRE ATERSI ITURE
Education Action* (A) Educate elected officials about the completed plan and encourage them to: 1. Adopt the plan 2. Armed municipal, codes, ordinances, and comprehensive plants to recognize recommendations in the plan	Target Audience Elected officials	Communication Vehicles Distribute copies of the plan and the borchure summiting the plan Scheduk meetings and presentations on the plan and its recommendations as requested Include elected officials in presentations or summatic best management practices	Schedule Late 2021-2023	Lead (Supporting) Organizations Milwaukee County, watershed municipalities, RPW, SWWT, (SEWRPC), (WDNR), (MMSD)	Outcomes, Implementation Gosts, Behavior Changes 5 meetings, presentations, and workshops between late 2021 and mid: 2022 Knowledge of the components and recommendations in the plan Adoption of plan by the County and Immit/public by 2022 Revisions to municipal codes and ordnances	Estimated Cos 1&E to elected officials and municipal staffs \$10,000 (200 hours) Printed copies of plan and brochure \$1,000
(B) Provide the waterhed plan to the general public and news media, inform and educate them about water pollution; the hazards of and management of yater, and yourd defines in the state fertilizers, and yourd chemicalis as they relate to stromwater nuclei and groundwater to instruction and and groundwater sciencies, and research of groundwater waterhed Forevasps the public to include appropriate plan recommendations in their activities and to request assistance	General public News media	hubith and distribute & brochure summarizing the plan. Make copies of the plan, summary brochure and neterien materials available on the SEWRPC website Post links to the plan and related materials on the Root Pike WIN. SWWT, WONR, municipal and other website network on the plan and activities related to plan implementation. Pike WIN, and SWWT websites, scolar media, newaletters, and multimedia. Update the websites on an ongoing basis loss news releases announcing the plan, its recommendations, and implementation activities. Provide media interviews, photo opportunities and community Maintain and expand the Respect Our Vaters multimedia and community ediates in Caccast Resource Center and website	hell 2021 and at intervals marking implementation progress. major initiatives, photo opportunities, met everywowthy the developments Beginning 2021 and rontauing through 2031, present periodically at the Clean Rivers. Clean Lake Conference Beginning 2022 and continuing through 2022, and continuing through 2023, and continuing through 2024 and continuing through 20	Watershed municipalities, MMSD, RPW, SWWT, (Milwaukee County), (SEWWSC) (SEWWSC)	I en news releases issued between fail al 2021 and 2031 Ten news stories aired between fail 2021 end 2031 200 brochures distributed by email or downicade between fail 2021 and 2027 I gresentations and workshops from 2022 through 2031	Cost includes items 8 through second which would be accomplished through a coordinated, multi-purpose program which would include th communication titems, and which share outcomes, except where additional order for an action item \$25,000 (500 hours)







ligh Priority I	Debris Jam Modification Pro	jects for the Oak Creek Watershed	Restoratio	n Plan ^{a.b}		1
Number (see			Areas		Capital Cost	Key Project
Maps 6.1-6.13) LMP-09	Location Oak Creek upstream of Mill Pond between the third and fourth Parkway crossing	Management Action Remove debris jam and sediment accumulations from main channel of Oak Creek and elevate channel invert of newly formed channel that is in close proximity to the Parkway road ⁶	Addressed Habitat	Potential Benefits Removes passage impediment, increases connectivity within Oak Creek; eliminates threat to Parkway road	(dollars) ^d	Partners Milwaukee Count
LMP-16	Oak Creek in Oak Creek Parkway north of Cherry Street (extended)	Remove or modify large woody debris jam	Habitat	Removes passage impediment, increases connectivity within Oak Creek	d	Milwaukee Count
LMP-18	Oak Creek in Oak Creek Parkway upstream of Chicago Avenue and south of Walnut Street (extended)	Remove or modify large woody debris jam	Habitat	Removes passage impediment, increases connectivity within Oak Creek	d	Milwaukee Count and City of South Milwaukee
LOC-29	Oak Creek about 630 feet downstream of S. Pennsylvania Avenue	Remove or modify large woody debris jam	Habitat	Removes passage impediment, increases connectivity within Oak Creek	d	Milwaukee Count and City of South Milwaukee
LOC-37	Oak Creek about 520 feet upstream from S. Pennsylvania Avenue	Remove or modify large woody debris jam	Habitat	Removes passage impediment, increases connectivity within Oak Creek	^d	Milwaukee County City of Oak Creek and MMSD ^e
LOC-48	Oak Creek about 650 feet downstream of the confluence with the Mitchell Field Drainage Ditch	Remove or modify large woody debris jam	Habitat	Removes passage impediment, increases connectivity within Oak Creek	d	Milwaukee County City of Oak Creek and MMSD ^o



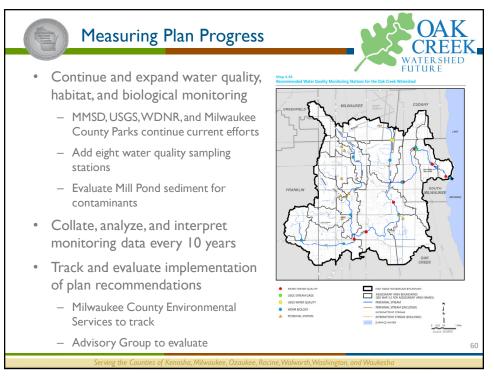
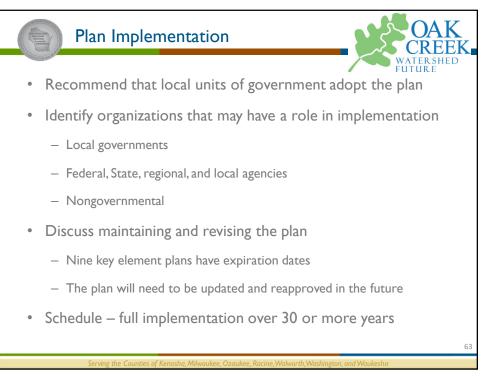


Table 6.38		FIITI
mplementation Mileston	es for the Oak Creek Watershe	ed Restoration Plan
Category	Action	Milestones
Specific Projects Listed in Table 6.1	High Priority Projects (90 projects)	35 percent of projects initiated by the end of 2026 50 percent of projects completed by the end of 2031 65 percent of projects completed by the end of 2036 75 percent of projects completed by the end of 2041 90 percent of projects completed by the end of 2046 100 percent of projects completed by the end of 2054
	Medium and Low Priority Projects (316 projects)	S percent of projects initiated by the end of 2026 15 percent of projects completed by the end of 2031 30 percent of projects completed by the end of 2036 40 percent of projects completed by the end of 2041 50 percent of projects completed by the end of 2046 65 percent of projects completed by the end of 2051 100 percent of projects completed after 2051
Water Quality: Urban Nonpoint Source Pollution Control	MS4 Illicit Discharge Detection and Elimination Program Modifications Z. Development and Implementation of BMP Maintenance Tracking Systems 3. Iron-Enhanced BMP Pilot Projects	Modifications completed by all seven MS4s by the end of 2026 Systems implemented by all seven MS4s by the end of 2026 1 project installed by the end of 2026 3 projects installed by the end of 2031





			WAT FUT
able 6.39 mplementation Schedule for Ge	eneral Recommend	ations of	- Tur
he Oak Creek Watershed Resto			
	Level of	Date to Complete	
Recommendation	Implementation	Implementation	Comments
	ality: Urban Nonpoint So		
General Recommendations		Ongoing	There are also specific project recommendations that address these
	Full	2026	Because implementation of this
MS4 IDDE Program Modifications ^a	- Cur	2020	recommendation will require changes to
			the communities' MS4 discharge permits
			it is anticipated that implementation will
			occur as part of the regular reissuance of the permits
Development of BMP maintenance	Full	2026	the permits
tracking systems			
Iron-enhanced BMP Pilot Projects	1 project	2026	
	3 projects	2031	
	Water Quality: Green Infr		
Implementation of MMSD Green	48 percent	2026	Implementation schedule for MMSD
Infrastructure Plan	77 percent	2031	green infrastructure plan is given in Table 6.10
	100 percent	2035	Table 6.10
Municipal Code Audit for City of South Milwaukee		2026	
Implementation of South Milwaukee	400 removals, 1,250	2031	
Urban Forestry Plan	plantings		
Develop and Implement Green	Full	2026	
Infrastructure Tracking System			



Table 6.40 Summary of Estimated Capital Costs for the Oak Creek Watershed Restoration Plan Title Cost (dollars)* MMSD Green Infrastructure Plan through 2031 ⁶ 131,260,000 City of South Milwaukee Urban Forestry Plan through 2031 131,260,000 Specific Projects in Table 6.1 65,828,300 Recreational Access and Use Recommendations 3,120,000 Monitoring Recommendations through 2031 2,012,700 Information and Education Element through 2031 106,000 Mill Pond and Dam Element* 542,000-12,410,000 * All costs are given in 2019 dollars. * * The capital cost of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service area through 2035 is estimated as \$170,241,000. * The capital costs related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation. Source: Milwaukee Metropolitan Severage District, City of South Milwaukee, SEWRPC	Plan Costs	OA CRE WATERSH FUTURE
MMSD Green Infrastructure Plan through 2031 ^b 131,260,000 City of South Milwaukee Urban Forestry Plan through 2031 917,000 Specific Projects in Table 6.1 65,828,300 Recreational Access and Use Recommendations 3,120,000 Monitoring Recommendation through 2031 06,000 Monitoring Recommendation and Education Element through 2031 106,000 Mill Pond and Dam Element* 542,000-12,410,000 * All costs are given in 2019 dalars. * * To capital cost of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service area through 2035 is estimated as \$170,241,000. * The capital cost related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation.	Summary of Estimated Capital Costs for the Oak Creek W	
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Recreational Access and Use Recommendations 3,120,000 Monitoring Recommendations through 2031 2,012,700 Information and Education Element through 2031 106,000 Mill Pond and Dam Element* 542,000-12,410,000 * All costs are given in 2019 dallars. * * Total 203,739,000-215,537,000		
Monitoring Recommendations through 2031 2,012,700 Information and Education Element through 2031 106,000 Mill Pond and Dam Element* 542,000-12,410,000 * All costs are given in 2019 dollars. * * Trotal costs of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service area through 2035 is estimated as \$170,241,000. * The capital costs related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation.		
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Mill Pond and Dam Element* 542,000-12,410,000 Total 203,739,000-215,537,000 * All costs are given in 2019 dollars. * * Tre capital cost of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service meat through 2035 Is estimated as \$170,241,000. * The capital costs related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation.		
 ⁶ All costs are given in 2019 dollars. ¹⁶ The capital cost of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service area through 2035 is estimated as \$170,241,000. ⁶ The capital costs related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation. 		
^b The capital cost of full implementation of the MMSD green infrastructure plan for the portions of the Oak Creek watershed that are located within the MMSD service area through 2035 is estimated as \$170,241,000. ^c The capital costs related to the Mill Pond and Dam are dependent upon the management alternative selected by Milwaukee County for implementation.	Total	
Commentation and Advance Manager District City of Comments and Advance SDUDDC	^b The capital cost of full implementation of the MMSD green infrastructure plan within the MMSD service area through 2035 is estimated as \$170,241,000. ^c The capital costs related to the Mill Pond and Dam are dependent upon the	

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