

Fourmile Creek WMA 2018 Action Plan

Goal/Task	Milestone	Desired Outcome	2018 Goal	Responsible Entity	Progress Report
Goal 1: Monitor for Success					
Task 1: Monthly monitoring of 12 locations	Operational monitoring system	TSS,N,P,DO, Chloride, pH, Temperature	Continue monitoring through PCCB program	PCCB	Currently monitoring 14 sites bi-weekly
Task 2: Tri-Annual Biological Monitoring	Biological assessment completed in May, July, & Sept. at each site	Monitor biological activity	Following PCCB protocol to monitor once annually	PCCB	Biological assessment completed once annually at each monitoring site
Goal 2A: Engage Rural & Urban Partners					
Task 3: Wetland Mitigation Bank	Establish wetland banking sites	Reduce sediment and nutrient transport through wetland establishment in upstream areas	Identify sites and outreach to two potential landowners	Polk SWCD	Two meetings held with Dallas County and consultant
Task 4: Native Prairie Planting	Establish 100 ac. of native planting	Work with jurisdictions, residents, and landowners to implement native prairie	4 ac.	WMA/Jurisdictions	
Task 5: Streambank Restoration	Restore/stabilize priority areas	Reduction in sediment loading	7,000 linear ft.	WMA/Jurisdictions	2,200 linear ft. of stream stabilization completed in 2017
Task 6: Bacteria Sources	Investigate source problems throughout the watershed	Develop GIS Database, education, test for caffeine to determine human vs. animal	25 inspections, start GIS database	WMA/Jurisdictions	
Goal 2B: Engage Urban Partners					
Task 1: Stormwater Management	100% adoption	All eligible jurisdictions adopt unified sizing criteria stormwater requirements		MPO/Polk SWCD	
Task 4: Install/retrofit for green street strategies	10,000 linear ft. of permeable pavers, biocells, et.	Reduction of channel erosion and urban sediment transport	400 linear ft.	WMA/Jurisdictions	
Task 5: Prairie Pothole Preservation	100 ac-ft.	Mitigate flooding, reduce channel erosion	4 ac-ft.	WMA/Jurisdictions	
Task 6: Regional Detention	600 ac-ft.	Reduce flooding more effectively, reduce maintenance costs, recreation	8 ac-ft.	WMA/Jurisdictions	Sites identified, working with landowners and funding sources
Task 7: Implement SWMM Practices*	Increased adoption of urban conservation practices	Track implementation, increase adoption, and promote education	Incorporate 1 urban project in each jurisdiction	WMA/Jurisdictions	
Goal 2C: Engage Rural Partners					
Task 1A: Cover Crops	7,000 acres (10% watershed)	Reduction in sediment and nutrient transport	500 new acres	Polk SWCD	1500 acres planted in 2017
Task 1B: Grassed Waterways	10 stream miles	Reduction in sediment and nutrient transport	0.5 miles	Polk SWCD	
Task 1C: Stream Buffers	10 stream miles	Reduction in sediment and nutrient transport	0.5 miles	WMA/Jurisdictions	
Task 2A: Strip Tillage	2,500 acres	Reduction in sediment and nutrient transport	125 new acres	Polk SWCD	
Task 2B: No Tillage	250 acres	Reduction in sediment and nutrient transport	100 new acres	Polk SWCD	100 new acres in 2017
Task 3: Edge of Field /Tile Treatment	100 outlets	Reduction in nutrient transport	6 no.	Polk SWCD	5 installed in watershed to date
Goal 3: Adopt a Greenway System					
Task 1: Main Channel /Tributary Greenway Network	Protect 500 yr. floodplain	Stream stability, flood loss mitigation, habitat restoration	Complete MOU agreement, extend lower greenway plan across entire watershed	WMA/Jurisdictions	Lower greenway plan completed and adopted, MOU under review
Task 2: Implement Lower Greenway Plan*	Implement practices	Improve water quality, habitat, and flood resiliency	Restore 3 oxbows, construct 1 stormwater	WMA/Jurisdictions	Funding procured through WQI, local funds,
Goal 4: Promote Consistent Implementation					
Task 1: Develop Incentive Programs	Provide incentive programs at \$50k per year	Implement BMP's on private lands with an emphasis on TSS and Bacteria	Promote incentive programs to private landowners, soil health focus	WMA/Jurisdictions	Incentive funds procured through NRCS, RCPP, IDALS, and cities (Ankeny/DSM)
Task 2: Designate Outdoor Teaching Facilities	Designate outdoor teaching facilities for all 8 goals	Promote conservation through visual education and demonstration	Identify opportunities and locations	WMA/Jurisdictions	
Task 3: BMP Documentation	Develop BMP database	Better tracking of activities and accomplishments from across the watershed	Develop database and collect information	Polk SWCD	Polk SWCD implementation documented
Task 4: Habitat Assessment	Assessment of watershed habitat	Methodology meet regional/state standards	Develop habitat assessment methodology	WMA/Jurisdictions	

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Goal 5: Establish Consistent Regional Guidelines and Standards					
Task 1: Existing Policy Summary	Develop an existing policy summary	Create a baseline for consistent policy building throughout the region	Document and complete an existing policy summary	MPO/Polk SWCD	
Task 3: Natural Resources Overlay District	Create an overlay district for planning assistance	Ensure consistent implementation throughout the region	Identify priority tasks, hire consultant	Polk SWCD	
Goal 6: Employ Performance Based Measures					
Task 4: Consistent Regional Monitoring Protocol	Monitoring protocol for Fourmile Creek	Coordinate monitoring protocol with regional & state standards	Continue monitoring following protocol developed by PCCB.	PCCB	Monitoring protocol developed and participation by PCCB and jurisdictions
Goal 7: Identify and Implement Funding Alternatives					
Task 1: Pooled Resources	Enhance or provide pooled resources for WMA	Utilize pooled resources for implementing priority tasks	Host meeting in spring to provide projects/needs for pooled resources	Polk SWCD	Resources pooled to hire coordinator
Task 2: Legislative Funding	State land & water legacy funding	Develop alternate funding sources for priority projects	Provide input to statewide WMA group for representation on statewide level	WMA's of Iowa	WMA's of Iowa formed with participation by 4 mile WMA representative
Goal 8: Education and Outreach*					
City and County Officials, Staff					
Task 1: Elected Officials*	Update county and city officials on WMA activities	Education and continued WMA support by elected officials	Provide annual update to council boards for each jurisdiction, spring 2018	Polk SWCD	Last update fall of 2016
Task 2: Provide Regular Watershed Updates*	Provide regular updates to be shared with staff and key partners	Increased understanding of MWA activities, actions, and goals	Provide quarterly "take home sheet" following WMA meeting and bi-annual watershed update	Polk SWCD	
Task 3: Green Infrastructure Conference*	Educate and promote support for new stormwater policy	Educate on developing and implementing stormwater policy	Host a conference in 2018 with attendance by city staff and officials	MPO/ISWEP/Polk SWCD	
Private Landowners and Producers					
Task 4: Agricultural Field Day*	Inform on WMA plan and ways to contribute	Increased implementation of conservation practices	Complete 1 field day	Polk SWCD	3 field days held in 2017
Task 5: Direct Mailings*	Inform on WMA plan and ways to contribute	Create opportunities for on farm assessments	Complete 2 direct mailings	Polk SWCD	3 mailing completed in 2017
Task 6: Soil Testing Program*	Promote on farm testing of soils and follow up consultation	Increased adoption of soil health practices	700 acres	Polk SWCD	490 acres completed in 2017
Task 7: Haggie Cover Crop Seeding Demo Pro	Promote alternate cover crop seeding methods	Increased adoption of cover crops	1500 acres	Polk SWCD	1000 acres planted with Haggie seeder in 2017
Task 8: Website*	Awareness and education	Increase awareness and understanding of WMA plan, goals, and activities	Complete website, each jurisdiction links to websites and promotes in community	Polk SWCD	Website currently under construction

* Task developed by Polk SWCD that follows recommendations of Fourmile Creek Watershed Management Plan