

Table Po 4.1 Potter Creek - Sediment

HUC 041100020201

Potter Creek (Po) Problem Statement 1: Sediment

Potter Creek is listed as partial attainment, due in part to sediment from agricultural runoff. The QHEI indicates the lack of silt-free substrate. The STEP-L model indicates that the watershed generates 2,753 tons of sediment per year, mostly from agricultural runoff but also from eroding banks and urban runoff. Alteration of at least 2,585 acres of wetland, 78% of vegetated riparian corridor, and loss of riparian features (e.g., riparian zone, floodplain access) along an estimated 31.7 miles of watercourses has reduced the sediment storage of the system. Further alteration of riparian vegetation could result in increased loading in the future.

Goals		Amount to complete, time frame	
Objectives	Lead/ cooperating Organizations	Resources needed/cost	(contingent on funding, resources, landowner willingness)
Actions			
Goal Po 1a Reduce non-point source pollution from urban runoff to reduce annual loading of sediment by 4.3 tons			
Po 1a-1 Plant 5 ac of deep-rooted riparian vegetation, reducing loading of sediment by 2.8 tons/yr Focus areas: large parcels single ownership, headwaters.			
1 Submit grant applications	WC/SWCDs/partners		
2 Targeted outreach to owners of large properties	WC**/SWCDs/ Communities	Lists of golf courses, lake associations, homeowners' associations; maps of large parcels; printed outreach materials.	Target 1 group every 3 years (3 by 2022); improvements to best management practices or riparian management at one site every 4 years(2 sites by 2020); 2 outreach contacts per year
3 Assist with plantings	SWCDs, master gardeners	native plants/trees and shrubs \$250 (\$500-1,000 per acre);	
4 Construct and install signage	communities, partners,	\$300-500/sign	
5 Follow-up outreach (individualized guide to riparian zone) and publicize		funding for handouts/brochures	
Po 1a-2 Plant 500 lf of roadside ditch with no-mow grass to reduce annual load of sediment by 0.05 tons/yr			
1 Workshop on maintaining ditches for water quality improvements	SWCD	Location, materials	
2 Plant 500 lf of roadside ditch with no-mow grass			
Po 1a-3 Retrofit developed site to treat 20 acres for water quality (e.g., bioinfiltration, green infrastructure, permeable pavement), reducing sediment load by 1.5 tons/year.			
1 Stormwater retrofit inventory		WC/NEFCO with communities	
2 Submit grant application.			
3 Design/construct retrofit for existing stormwater (volume) infra-structure to improve water quality	Communities	Varies, depending on treatment provided (e.g., \$400/acre treated to \$17,000 per acre treated)	Retrofit 3 by 2023 to treat 60 ac res., 1 every 3 years afterward
Po 1a-4 Install 2,000 square feet of rain gardens, to reducing channel loading by 87 cu ft in a 3/4 in storm			
1 Identify partners	WC, partners		
2 Submit grant application	WC/partners		
3 Workshop/installation	WC/partners		
Po 1a-5 Maintain Stream database			1 database

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Goals			Amount to complete, time frame (contingent on funding, resources, landowner willingness)
Objectives	Lead/ cooperating Organizations	Resources needed/cost	
Actions			
Po 1a-6 Conduct public outreach by providing information and studies electronically or in print.			
1 Continue to compile, centralize, and make available studies, data, information sources on the watershed, including recreational opportunities, volunteer needs, permitting or regulatory issues; green infrastructure information sources, etc.	WC	Website, technical information and outreach materials	Update and develop pages for website by Dec. 2013, then on-going
2 e-newsletter or article issued 3 times per year	wc	website, share with partners	
3 Develop/reproduce informational brochure or website article concerning topics of interest, including reducing runoff, recreational opportunities, private wells, septic systems etc.	WC, health depts, SWCDs	technical/outreach materials, possibly printing costs	4 by 2022
Po 1a-7 Increase/sponsor 11 outreach/stewardship activities related to non-point source pollution and watershed issues.			
1 Establish clean-up/monitoring/planting efforts at additional tributaries and lakes	WC, communities, parks, residents, home-owners' associations, lake assoc.	Funding or donation of trash disposal, refreshments, monitoring supplies, crew leaders, volunteers; training for monitoring/planting	1 new tributary or lake monitoring, clean-up, or other stewardship program by 2018
2 Distribute 50 rain barrels through workshops	SWCDs/ Communities	Space for workshop; rain barrel kits	2 workshops/50 rain barrels distributed
4 Develop/reproduce informational brochure or website article concerning topics of interest, including reducing runoff, recreational opportunities, private wells, septic systems etc.	WC, health depts, SWCDs	technical/outreach materials, possibly printing costs	4 by 2022
5 Educational outreach workshops on topics of importance, including LID/green infrastructure, restoration, field trips for examples	Partners, WC, communities	Location, speaker, supplies	3 workshops by 2022
8 Watershed "brand," logo, art project	WC, Kent State/ Standing Rock Gallery/River Day	Host for project, graphic design capabilities	1 logo or art project by 2015, then 1 every 3 years;
9 Create social network or google presence	WC		1 by 2014
Goal Po 1b Reduce bank erosion to reduce sediment loading by 110 tons/year.			
Po 1b-1 Stabilize 1600 l.f. of eroding stream bank, reducing sediment loading by 110 tons/yr			
<i>Focus areas - eroding channels, some with livestock access e.g., Randolph Ditch, eroding Congress Lake Outlet headwaters</i>			
1 Map target areas to investigate for wetland, floodplain, riparian, habitat, or stream corridor restoration/protection/ enhancement	WC, partners	available mapping - compile and build on previous efforts	1 map by 2014, revisit and update if necessary every 3 years
2 Hold meetings with landowners to determine interest	WC, partners		
4 Submit grant applications	WC, partners		
5 Restore floodplain access/flood storage		design-build consultant	

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Goals				Amount to complete, time frame (contingent on funding, resources, landowner willingness)
Objectives	Lead/ cooperating Organizations	Resources needed/cost		
Actions				
6 Public outreach				
Po 1b-2 Restore 10 acre-ft of floodplain access/storage, reducing channel loading by 435,600 cu ft. Focus areas - areas with modified floodplain access.				
1 Map target areas to investigate for wetland, floodplain, riparian, habitat, or stream corridor restoration/protection/ enhancement	WC, partners	available mapping - compile and build on previous efforts	1 map by 2014, revisit and update if necessary every 3 years	
2 Hold meetings to determine landowner interest	WC, partners			
4 Submit grant application				
5 Restore floodplain access/flood storage	design-build consultant	funding for design-build consultant		
6 Public outreach				
Po1b-3 Restore 50 acres of wetland thereby increasing storage by 48,500 cubic feet of water in a 3/4 inch storm. Target areas headwaters with altered wetlands.				
1 Map target areas to investigate for wetland, floodplain, riparian, habitat, or stream corridor restoration/protection/ enhancement	WC, partners	available mapping - compile and build on previous efforts	1 map by 2014, revisit and update if necessary every 3 years	
2 Hold meetings to determine landowner interest	WC, partners			
3 Identify wetland restoration site for clearinghouse	WC, Communities, other partners	meetings with landowners; readily available mapping, outside assistance from consultant, possible assistance from Kent State University wetland ecology class	5 concept plans by 2020; 1 every 2 years afterward.	
4 Submit grant application				
5 Restore/protect/enhance wetlands	Partners	\$5,000-\$100,000 per acre, design/build consultant, sites -protection by easements would be at the low end of the range	20 ac by 2022; 10 ac every 5 years afterward	
Goal Po 1c Reduce agricultural runoff to reduce annual loading of sediment by 729 tons				
Po 1c-1 Conduct survey of practices to target application of BMPs				
1 Develop survey of existing practices				
2 Administer survey of existing practices				
3 Outreach with property owners based on survey				
4 Apply for external funding for BMP incentives				
5 Work with landowners and operators to increase use of BMPs based on survey results				
Po 1c-2 Install 3,000 lf of livestock exclusion and accompanying measures (e.g., watering, stream crossing) to reduce sediment loading by 140 tons per year				
1 Contact landowners to determine willingness				
2 Submit proposal for grant funds				
3 Work with landowners to install measures				
4 Outreach				

Note: Select practices will be monitored for effectiveness

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Goals		Amount to complete, time frame (contingent on funding, resources, landowner willingness)	
Objectives	Lead/ cooperating Organizations	Resources needed/cost	
Actions			
Po 1c-3 Install grassed waterway/buffer strips to treat 150 ac and reduce sediment by 236 tons/yr.			
Po 1c-4 Install cover crops on 150 ac and reduce sediment by 151 tons/yr			
Po 1c-5 Increase use of residue on ag fields by an additional 200 acres, reducing sediment loading by 202 tons/yr			
Goal Po 1d Increase sediment uptake in wetlands and floodplains by 54.4 tons/yr.			
Po 1d-1. Restore 50 ac of wetland, increasing storage of sediment by 50 tons/yr. Focus areas -altered riparian wetlands			
Target areas: altered riparian wetlands, Cranberry Creek, Potter Creek, headwater tribs, Congress Lake Outlet			
Actions: See Po 1b-3			
Po 1d-2 Restore 10 acre-ft of floodplain access/storage, reducing sediment loading by 4.4 tons/yr. Focus areas - areas with modified floodplain access.			
Actions: See Po 1b-2			
Goal Po 1e Protect 75 ac wetlands and riparian corridors to prevent future sediment loading by 64 tons/yr.			
Po 1e-1 Protect 25 ac of riparian buffer by increasing the number of communities using riparian setbacks by 1, reducing annual sediment load by 14 tons/yr			
1 Workshops for community officials on developing/enforcing riparian setbacks	Portage County Regional Planning Commission	Workshops would occur during regularly scheduled zoning inspector meetings, etc.	2 workshops by 2015; additional workshops - included in general workshop series
2 Provide written comment on wetland alteration permit applications concerning impacts to watershed functions/riparian setbacks	WC and partners		on-going
3 Increase the number of communities using riparian setbacks	WC, communities, Counties	Outreach	1 additional community with riparian setbacks by 2022
4 Install signage for riparian areas in publicly visible places	Partners	\$200-\$500 per sign. Outside funding or community sign facility	Signs at 2 locations by 2022; signs at 1 additional location every 5 years afterward
5 Continued outreach	Partners	funding for outreach	brochure, workshops on enforcement, outreach to homeowners etc.
Po 1e-2 Protect 50 ac. of riparian buffer/wetland through acquisition of land/easements, preventing increased loading of sediment by 50 tons/yr.			
1 Identify key areas for protection	Partners		
2 Contact landowners/partner land trusts			
3 Submit grant proposal			
4 Acquire wetlands/easements			

Table Po 4.2 Potter Creek - Nitrogen

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Potter Creek (Po) Problem Statement 2: Nitrogen

Limited data suggest that Potter Creek is enriched in nutrients relative to state criteria, with nitrate+nitrogen values ranging from 0.473 to 7.32 mg/l in 2000. Downstream, Breakneck Creek and the Cuyahoga River are enriched in nitrogen. Lake Hodgson, downstream in the Breakneck Creek subwatershed, occasionally draws water from the Congro due to excessive nutrients. Congress Lake has experienced nuisance algal blooms. The STEP-L model indicates that the watershed generates 63,796 lb/yr of nitrogen from eroding banks, agricultural runoff, and failing septic systems. Alteration of at least 2,585 acres of wetland, 78% of vegetated riparian corridor, and loss of riparian features (e.g., riparian zone, floodplain access) along an estimated 31.7 miles of watercourses has reduced the nitrogen uptake of the system. Further alteration of riparian vegetation could result in increased loading in the future.

Goals		Amount to complete, time frame (contingent on funding, resources, landowner willingness)	
Objectives	Lead/ cooperating Organizations	Resources needed/cost	
Actions			
Goal Po 2a Reduce non-point source pollution from urban runoff to reduce annual loading of nitrogen by 44.5 lb			
Po 2a-1 Plant 5 ac of deep-rooted riparian vegetation, reducing loading of nitrogen by 40 lb/yr Focus areas: large parcels single ownership, headwaters.			
Actions: See Po 1a-1	WC/SWCDs/partners		
Po 2a-2 Plant 500 lf of roadside ditch with no-mow grass to reduce nitrogen loading by 0.4 lb/yr.			
Actions: See Po 1a-2	WC/SWCDs/partners		
Po 2a-3 Retrofit developed site to treat water quality from 20 acres (e.g., stormwater retrofit/green infrastructure), reducing nitrogen loading by 4 lb/yr.			
Actions: See Po 1a-3			
Po 2a-4 Install 2,000 square feet of rain garden, reducing annual nitrogen loading by 0.08 lb/yr.			
Actions: See Po 1a-4	WC/SWCDs/partners		
Po 2a-5 Maintain Stream database			1 database
Po 2a-6 Conduct public outreach by providing information and studies electronically or in print.			
Actions: See Po 1a-6	WC/SWCDs/partners		
Po 2a-7 Increase/sponsor 11 outreach/stewardship activities related to non-point source pollution and watershed issues.			
Actions: See Po 1a-7			
Goal Po 2b Reduce bank erosion to reduce nitrogen loading by 160 lb/year.			
Po 2b-1 Stabilize 1600 l.f. of eroding bank, to reduce nitrogen loading by 160 lb/yr			
<i>Focus areas, e.g., eroding streams with livestock access, headwaters, Brimfield Ditch, other ditches</i>			
Actions: See Po 1b-1			
Po 2b-2 Restore 10 acre-ft of floodplain access/storage, reducing channel loading by 435,600 cu ft. Focus areas - areas with modified floodplain access.			
Actions: See Po 1b-2			
Po 2b-3 Restore 50 acres of wetland thereby increasing storage by 48,500 cubic feet of water in a 3/4 inch storm. Target areas headwaters with altered wetlands.			
Actions: See Po 1b-3			

Table Po 4.2 Potter Creek - Nitrogen
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Goals		Amount to complete, time frame (contingent on funding, resources, landowner willingness)	
Objectives	Lead/ cooperating Organizations	Resources needed/cost	
Actions			
Goal Po 2c Reduce septic system failure to reduce annual loading of nitrogen by 470 lb			
<i>Po 2c-1 Correct 3 failing HSDS every 2 years, reducing nitrogen loading by 470 lb/yr Focus areas: vicinity of water courses</i>			
1 Inspect systems	PCHD		
2 Correct failing/discharging home sewage treatment systems	Portage County Health District, Stark Co. Health Dist. landowners	Continued inspection and enforcement of illicit discharge regulations. Remedies depend on cause of failure and proximity of sewer service.	10 by 2022; 1 per year afterward
3 Continue to investigate funding sources	PCRPC, PCHD, wc		
4 Outreach:			
Goal Po 2d Reduce agricultural runoff to reduce annual loading of nitrogen by 1,819 lb			
<i>Po 2d-1 Conduct 1 approximately year-long nutrient survey along Breakneck Creek, Feeder Canal, Lake Hodgson, Congress Lake Outlet, and Potter Creek.</i>			
1 Arrange internship with KSU			
2 Determine sampling sites, frequencies			
3 Coordinate lab analysis with Ravenna utilities			
4 Monitor throughout the year			
<i>Po 2d-2 Conduct survey of practices to target application of BMPs</i>			
Actions: See Po 1c-1			
<i>Po 2d-3 Install 3,000 lf of livestock exclusion and accompanying measures (e.g., watering, stream crossing) to reduce nitrogen loading by 280 lb per year</i>			
Actions: See Po 1c-2			
<i>Po 2d-4 Install grassed waterway/buffer strips to treat 150 ac and reduce nitrogen by 699 lb/yr.</i>			
<i>Po 2d-5 Install cover crops on 150 ac and reduce nitrogen by 360 lb/yr</i>			
<i>Po 2d-6 Increase use of residue on ag fields by an additional 200 acres, reducing nitrogen loading by 480 lb/yr</i>			
Goal Po 2e Increase uptake of nitrogen by wetlands and floodplains by 1,755 lb/yr.			
<i>Po 2e-1. Restore 50 ac of wetland, to reduce loading of nitrogen by 1,400 lb/yr. Focus areas -altered riparian wetlands</i>			
Target areas: Cranberry Creek, Potter Creek, headwater tribs Congress Lake Outlet			
Actions: See Po 1b-3.			
<i>Po 2e-2 Restore 10 acre-ft of floodplain access/storage, reducing annual nitrogen loading by 60 lb. Focus areas - areas with modified floodplain access.</i>			
Actions: See Po 1b-2.			
<i>Po 2e-3 Improve channel morphology, e.g., 2-stage ditch, by 1,000 lf to increase nitrogen uptake by 295 lb/yr. Focus areas: altered headwater channels. Cranberry Cr.</i>			
1 Map target areas to investigate for wetland, floodplain, riparian, habitat, or stream corridor restoration/protection/ enhancement	WC, partners	available mapping - compile and build on previous efforts	1 map by 2013, revisit and update if necessary every 3 years
2 Hold meetings to determine landowner interest	WC, partners		
4 Submit grant application			

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Goals			Amount to complete, time frame (contingent on funding, resources, landowner willingness)
Objectives	Lead/ cooperating Organizations	Resources needed/cost	
Actions			
5 Construct ditch improvements	design-build consultant	funding for design-build consultant	
6 Public outreach			
Goal Po 2f Protect wetlands and riparian corridors to prevent future nitrogen loading by 1,600 lb/yr.			
<i>Po 2f-1 Protect 36,000 linear feet of riparian buffer by increasing the number of communities using riparian setbacks by 1, reducing loading of nitrogen by 200 lb/yr</i>			
Actions: See Po 1e-1.			
<i>Po 2f-2 Protect 50 acres of wetlands/riparian corridor through purchase of land/easements, preventing increased loading of nitrogen by 1,400 lb/yr. Target areas high value wetlands, Potter Cr., Cong. Lk Outlet headwaters</i>			
Actions: See Po 1e-3			

Table Po 4.3 Potter Creek Phosphorous

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Potter Creek (Po) Problem Statement 3: Phosphorous

Limited data suggest that Potter Creek is enriched in phosphorous relative to state criteria for WWH headwater streams, ranging from 0.05 to 0.16. The 1997 TSD notes that phosphorous in Potter Creek is high compared to the rest of the Breakneck Creek drainage, likely a result of agriculture. Downstream, Breakneck Creek and the Cuyahoga River are enriched in phosphorous. Lake Hodgson, downstream in the Breakneck Creek subwatershed, occasionally draws water from the Congress Lake Outlet, and experiences nuisance algal blooms due to excessive nutrients. Congress Lake has experienced nuisance algal blooms. The STEP-L model indicates that the watershed generates 12,250 lb/yr of phosphorous from eroding banks, agricultural runoff, and failing septic systems. Alteration of at least 2,585 acres of wetland, 78% of vegetated riparian corridor, and loss of riparian features (e.g., riparian zone, floodplain access) along an estimated 31.7 miles of watercourses has reduced the nitrogen uptake of the system. Further alteration of riparian vegetation could result in increased loading in the future.

Goals	Lead/ cooperating Organizations	Amount to complete, time frame (contingent on funding, resources, landowner willingness)
<i>Objectives</i>	<i>Resources needed/cost</i>	
Actions		
Goal Po 3a Reduce non-point source pollution from urban runoff to reduce annual loading of phosphorous by 11.3 lb		
<i>Po 3a-1 Plant 5 ac of deep-rooted riparian vegetation, reducing loading of phosphorous by 7 lb/yr Focus areas: large parcels single ownership, headwaters.</i>		
Actions: See Po 1a-1	WC/SWCDs/partners	
<i>Po 3a-2 Plant 500 lf of roadside ditch in no-mow grass to reduce phosphorous by 0.2 lb/yr</i>		
Actions: See Po 1a-2	WC/SWCDs/partners	
<i>Po 3a-3 Retrofit developed site to treat water quality from 20 acres (e.g., stormwater retrofit/green infrastructure), reducing phosphorous loading by 4 lb/yr.</i>		
Actions: See Po 1a-3		
<i>Po 3a-4 Install 2,000 square feet of rain garden, reducing annual phosphorous loading by 0.08 lb/yr.</i>		
Actions: See Po 1a-4	WC/SWCDs/partners	
<i>Po 3a-5 Maintain Stream database</i>		
		1 database
<i>Po 3a-6 Conduct public outreach by providing information and studies electronically or in print.</i>		
Actions: See Po 1a-4	WC/SWCDs/partners	
<i>Po 3a-7 Increase/sponsor 11 outreach/stewardship activities related to non-point source pollution and watershed issues.</i>		
Actions: See Po 1a-5		
Goal Po 3b Reduce bank erosion to reduce phosphorous loading by 60 lb/year.		
<i>Po 3b-1 Stabilize 1600 l.f. of eroding bank, reducing phosphorous loading by 60 lb/yr</i>		
<i>Focus areas, e.g., eroding streambanks with livestock access, Congress Lake Outlet headwater tribs, Randolph/other ditches</i>		
Actions: See Po 1b-1		
<i>Po 3b-2 Restore 10 acre-ft of floodplain access/storage, reducing channel loading by 435,600 cu. Ft.. Focus areas - areas with modified floodplain access.</i>		
Actions: See Po 1b-2		
<i>Po 3b-3 Restore 50 acres of wetland thereby increasing storage by 19,000 cubic feet of water in a 3/4 inch storm. Target areas headwaters with altered wetlands.</i>		
Actions: See Po 1b-3		
Goal Po 3c Reduce septic system failure to reduce annual loading of phosphorous by 183 lb		
<i>Po 3c-1 Correct 3 failing HSTS every 2 years, reducing phosphorous loading by 183 lb/yr Focus areas: vicinity of water courses</i>		

Note: Select practices will be monitored for effectiveness

Table Po 4.3 Potter Creek Phosphorous
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Goals	Objectives	Lead/ cooperating Organizations	Resources needed/cost	Amount to complete, time frame (contingent on funding, resources, landowner willingness)
	Actions			
	Actions: See Po 2c-1			
	Po 3c-2 Outreach			
Goal Po 3d Reduce agricultural runoff to reduce annual loading of phosphorous by 599 lb				
	Po 3d-1 Conduct 1 approximately year-long nutrient survey along Breakneck Creek, Feeder Canal, Lake Hodgson, Congress Lake Outlet, and Potter Creek.			
	Actions: See Po 2d-1			
	Po 3d-2 Conduct survey of practices to target application of BMPs			
	Actions: See Po 1c-1			
	Po 3d-3 Install 3,000 lf of livestock exclusion and accompanying measures (e.g., watering, stream crossing) to reduce phosphorous loading by 140 lb per year			
	Actions: See Po 1c-2			
	Po 3d-4 Install grassed waterway/buffer strips to treat 150 ac and reduce phosphorous loading by 39 lb/yr.			
	Po 3d-5 Install cover crops on 150 ac and reduce sediment by 180 lb/yr			
	Po 3d-6 Increase use of residue on ag fields by an additional 200 acres, reducing sediment loading by 240 lb/yr			
Goal Po 3e Increase uptake of phosphorous by wetlands and floodplains by 415 lb/yr.				
	Po 3e-1. Restore 50 ac of wetland, reducing loading of phosphorous by 316 lb/yr. Focus areas -altered riparian wetlands			
	Target areas: Cranberry Creek, Potter Creek, headwater tribs Congress Lake Outlet			
	Actions: See Po 1b-3.			
	Po 3e-2 Restore 10 acre-foot of floodplain access/storage, reducing annual phosphorous loading by 8 lb. Focus areas - areas with modified floodplain access.			
	Actions: See Po 1b-2.			
	Po 3e-3 Improve channel morphology, e.g., 2-stage ditch, by 1,000 lf to increase phosphorous uptake by 91 lb/yr. Focus areas: altered headwater channels. Cranberry Cr.			
	Actions: See Po 2e-3.			
Goal Po 3f Protect wetlands and riparian corridors to prevent future phosphorous loading by 352 lb/yr.				
	Po 3f-1 Protect 36,000 linear feet of riparian buffer by increasing the number of communities using riparian setbacks by 1, reducing loading of phosphorous by 36 lb/yr			
	Actions: See Po 1e-1.			
	Po 3f-2 Protect 50 acres of wetlands/riparian corridor through acquisition of land/easements, preventing increased loading of phosphorous			
	by 316 lb/yr. Target areas high value wetlands, Potter Cr., Cong. Lk Outlet headwaters			
	Actions: See Po 1e-3			

Table Po 4.4 Potter Creek - Habitat

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Potter Creek (Po) Problem Statement 4: Habitat

The 1997 TSD notes that because Potter Creek was channelized, habitat was characterized by modified attributes and lacked WWH characteristics, scoring 41 on the QHEI. Much of the Potter Creek subwatershed drainage has been altered by channelization (29 miles). Alteration of at least 2,585 acres of wetland, 78% of vegetated riparian corridor, and loss of riparian features (e.g., riparian zone, floodplain access) along an estimated 31.7 miles of watercourses has degraded habitat. The remaining large wetland complexes and areas containing species of concern are largely unprotected.

Goals	Lead/ cooperating	Amount to complete, time frame
<i>Objectives</i>	<i>Organizations</i>	<i>(contingent on funding, resources, landowner willingness)</i>
Actions	Resources needed/cost	
Goal Po 4a Restore 65 ac of riparian habitat and wetlands		
<i>Po 4a-1 Plant 5 ac of deep-rooted riparian vegetation. Focus areas: large parcels single ownership, headwaters.</i>		
Actions: See Po 1a-1	WC/SWCDs/partners	
<i>Po 4a-2. Restore/reconnect 50 ac of wetland. Focus areas -altered riparian wetlands</i>		
<i>Target areas: Cranberry Creek, Potter Creek, headwater tribs Congress Lake Outlet</i>		
Actions: See Po 1b-3.		
<i>Po 4a-3 Restore 10 acre-ft of floodplain access/storage. Focus areas - areas with modified floodplain access.</i>		
Actions: See Po 1b-2.		
<i>Po 4a-4 Improve channel morphology, e.g., 2-stage ditch, by 1,000 lf. Focus areas: altered headwater channels. Cranberry Cr.</i>		
Actions: See Po 2e-3.		
Goal Po 3f Protect 75 ac of wetlands/riparian corridors to prevent future degradation.		
<i>Target - intact wetlands, riparian corridor, areas with species of concern, large/connected areas of woods/other important habitat</i>		
<i>Po 3f-1 Protect 36,000 linear feet of riparian buffer by increasing the number of communities using riparian setbacks by 1</i>		
Actions: See Po 1e-1.		
<i>Po 3f-2 Protect 50 acres of wetlands/riparian corridor through property acquisition/easement. Target areas high value wetlands, Potter Cr., Cong. Lk Outlet headwaters</i>		
Actions: See Po 1e-2		