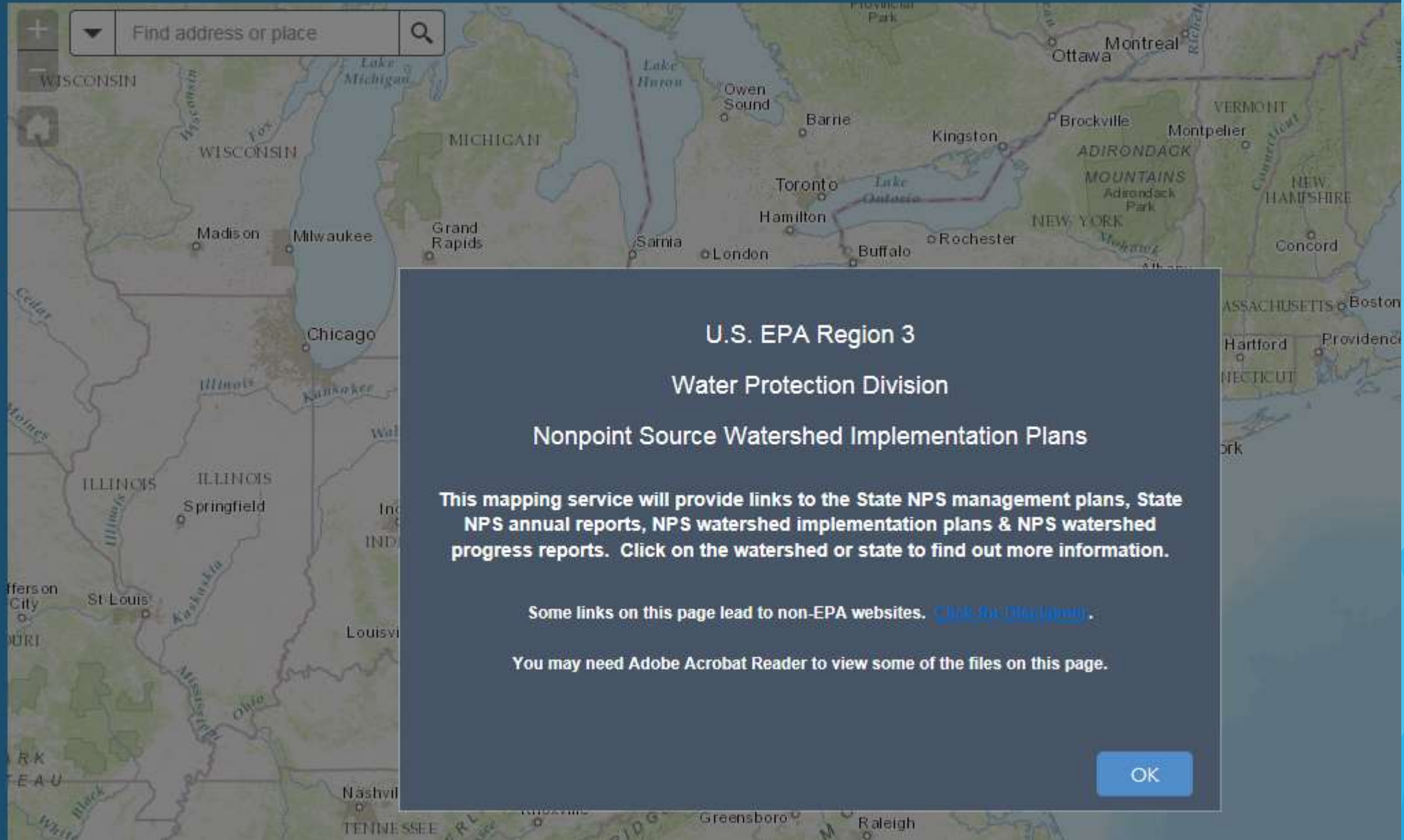


Annual 319 Program Grantees Meeting

Wednesday April 5, 2017



U.S. EPA Region 3

Water Protection Division

Nonpoint Source Watershed Implementation Plans

This mapping service will provide links to the State NPS management plans, State NPS annual reports, NPS watershed implementation plans & NPS watershed progress reports. Click on the watershed or state to find out more information.

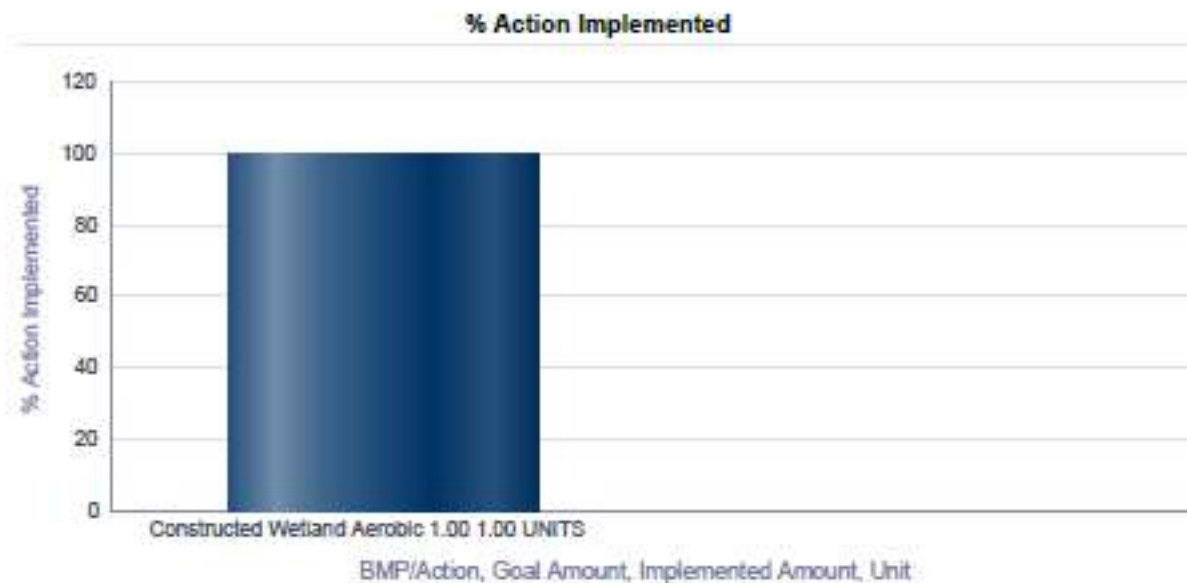
Some links on this page lead to non-EPA websites. [Click here for more info.](#)

You may need Adobe Acrobat Reader to view some of the files on this page.

OK

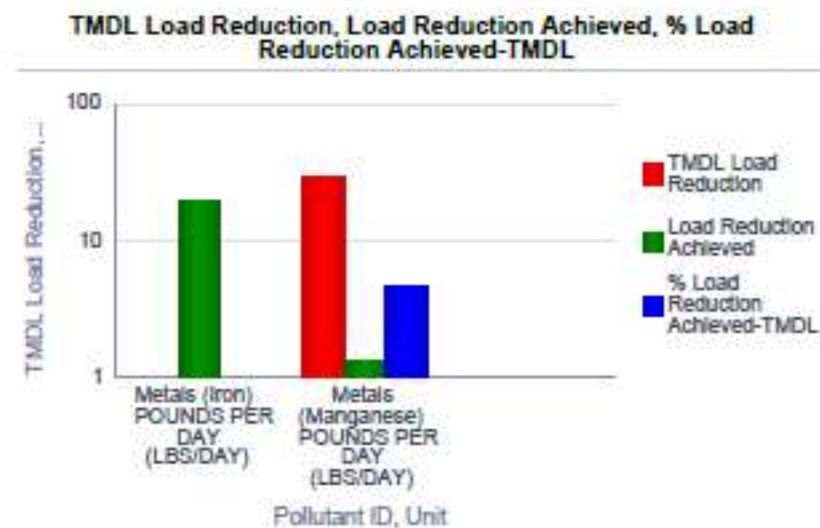
Blacks Creek PA Blacks Creek 1 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Constructed Wetland Aerobic	1.00	1.00	UNITS	100



Blacks Creek PA Blacks Creek 1 3/23/2017

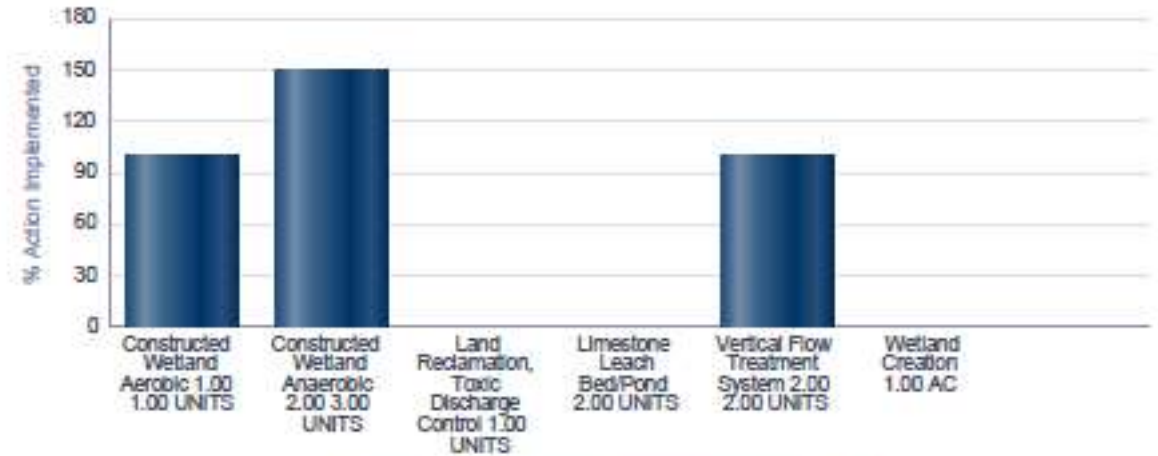
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Metals (Iron)	POUNDS PER DAY (LBS/DAY)		19.10	
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	28.70	1.30	5



Blacks Creek PA Blacks Creek 2 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Constructed Wetland Aerobic	1.00	1.00	UNITS	100
Constructed Wetland Anaerobic	2.00	3.00	UNITS	150
Land Reclamation, Toxic Discharge Control		1.00	UNITS	
Limestone Leach Bed/Pond		2.00	UNITS	
Vertical Flow Treatment System	2.00	2.00	UNITS	100
Wetland Creation		1.00	AC	

% Action Implemented

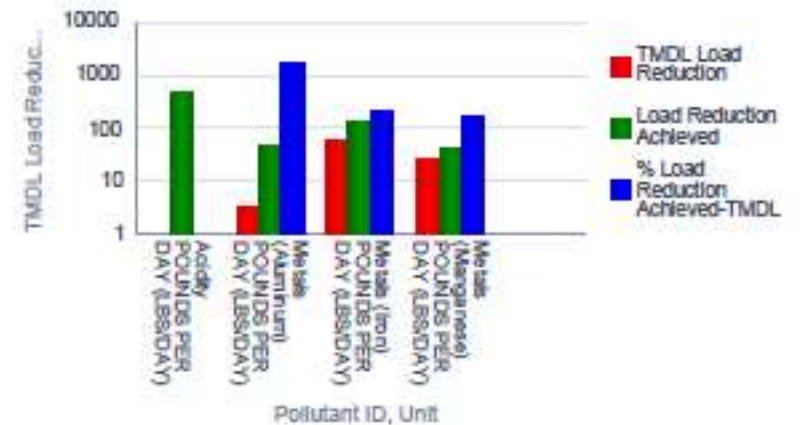


BMP/Action, Goal Amount, Implemented Amount, Unit

Blacks Creek PA Blacks Creek 2 3/23/2017

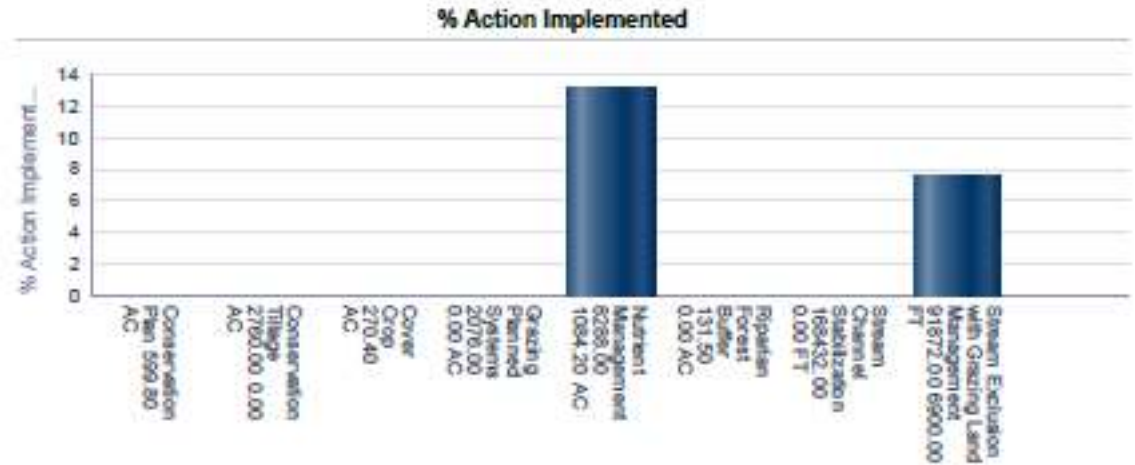
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	0.00	477.10	
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	3.00	45.00	1533
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	59.00	122.60	208
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	25.50	40.20	158

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Buffalo Creek EastBufCr 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Plan		599.80	AC	
Conservation Tillage	2760.00	0.00	AC	0
Cover Crop		270.40	AC	
Grazing Planned Systems	2076.00	0.00	AC	0
Nutrient Management	8288.00	1084.20	AC	13
Riparian Forest Buffer	131.50	0.00	AC	0
Stream Channel Stabilization	168432.00	0.00	FT	0
Stream Exclusion with Grazing Land Management	91872.00	6900.00	FT	8

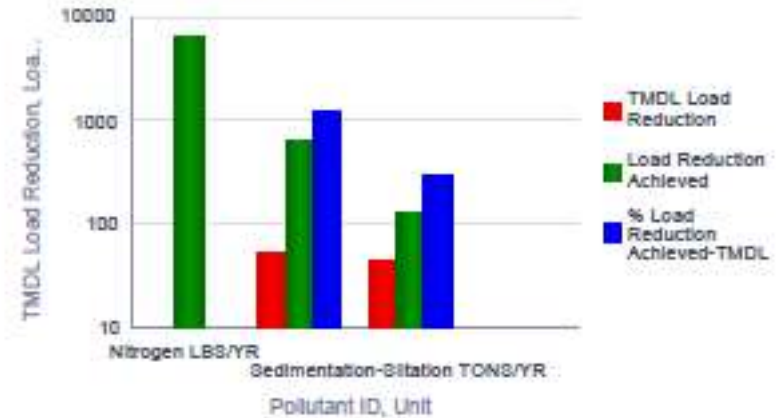


BMP/Action, Goal Amount, Implemented Amount, Unit

Buffalo Creek EastBufCr 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	6402.60	
Phosphorus	LBS/YR	52.00	628.60	1209
Sedimentation-Siltation	TONS/YR	44.00	131.00	298

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



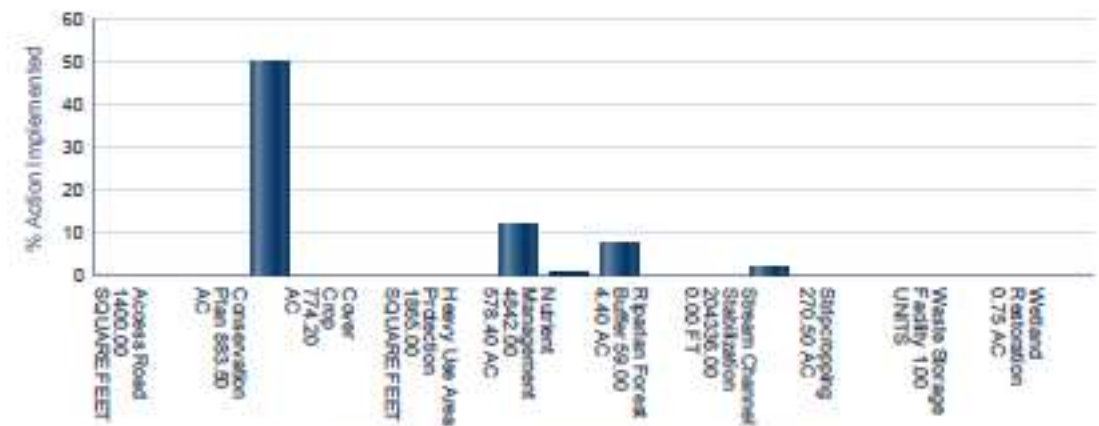
Buffalo Creek LittleBuffCr 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Access Road		1400.00	SQUARE FEET	
Ag Land Retirement		308.10	AC	
Conservation Plan		883.50	AC	
Conservation Tillage	1316.00	658.20	AC	50
Cover Crop		774.20	AC	
Fence		4200.00	FT	
Heavy Use Area Protection		1865.00	SQUARE FEET	
Livestock Use Area Protection		2700.00	SQUARE FEET	
Nutrient Management	4842.00	578.40	AC	12
Prescribed Grazing	1800.00	7.70	AC	0
Riparian Forest Buffer	59.00	4.40	AC	7
Roof Runoff Management		160.00	FT	
Stream Channel Stabilization	204336.00	0.00	FT	0
Stream Exclusion with Grazing Land Management	73520.00	1200.00	FT	2
Stripcropping		270.50	AC	
Underground Outlet		350.00	FT	
Waste Storage Facility		1.00	UNITS	
Watering Facility		1.00	UNITS	
Wetland Restoration		0.75	AC	

Buffalo Creek LittleBuffCr 3/23/2017

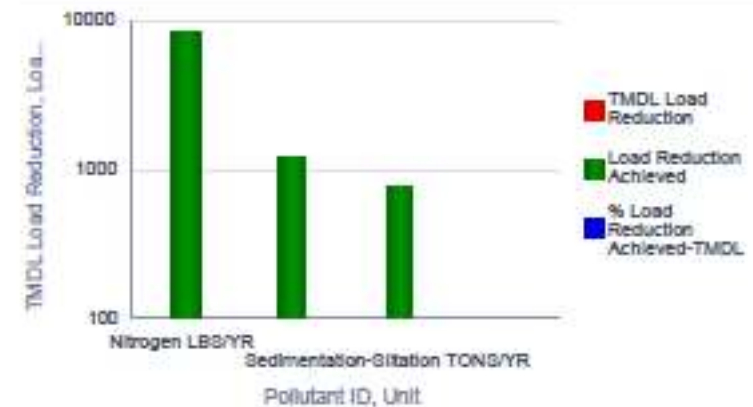
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	8361.90	
Phosphorus	LBS/YR	0.00	1181.70	
Sedimentation-Siltation	TONS/YR	0.00	770.00	

% Action Implemented



BMP/Action, Goal Amount, Implemented Amount, Unit

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



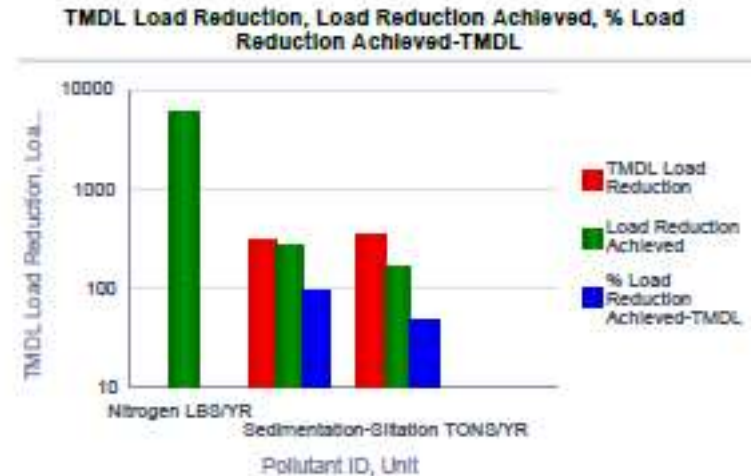
Buffalo Creek UNT19034 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Access Road		3652.00	FT	
Animal Trails and Walkways		5485.00	SQUARE FEET	
Barryard Runoff Management	3.00	3.00	UNITS	100
Closure of Waste Impoundments		1.00	UNITS	
Cover Crop	211.00	100.00	AC	47
Filter Strip		0.46	AC	
Heavy Use Area Protection		11190.00	SQUARE FEET	
Livestock Stream Crossing		10.00	UNITS	
Manure Transfer		1.00	UNITS	
Nutrient Management		567.00	AC	
Prescribed Grazing	8.00	70.00	AC	875
Riparian Buffers - Vegetative		1.10	AC	
Riparian Forest Buffer	14.40	10.06	AC	70
Roof Runoff Management		1974.00	FT	
Stream Exclusion with Grazing Land Management	11160.00	25577.00	FT	229
Streambank & Shoreline Protection	245.00	3256.00	FT	1329
Underground Outlet		360.00	FT	
Waste Management System	3.00	3.00	UNITS	100
Waste Storage Facility		3.00	UNITS	
Watering Facility		1.00	UNITS	
Wetland Enhancement		2.00	AC	



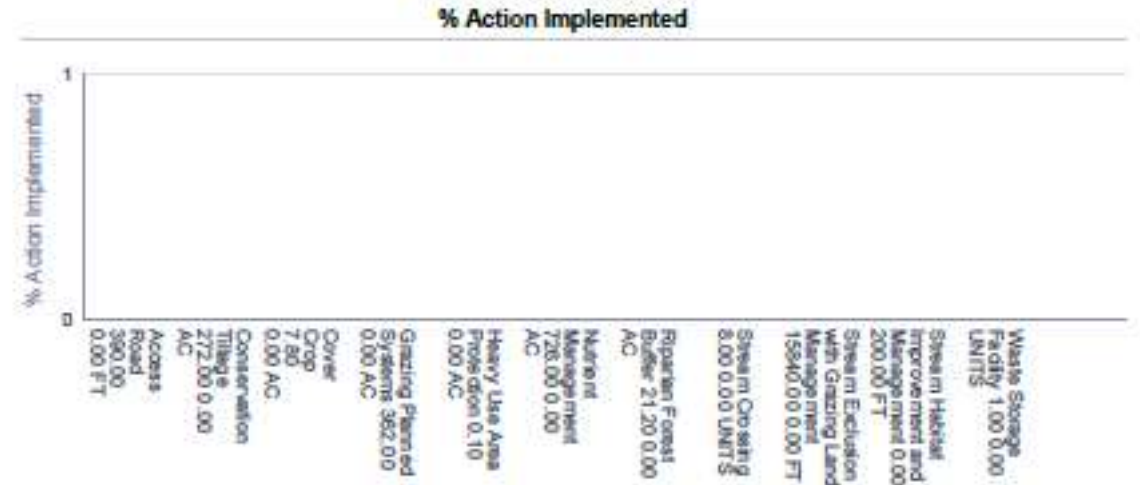
Buffalo Creek UNT19034 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	5674.90	
Phosphorus	LBS/YR	298.00	282.60	95
Sedimentation-Siltation	TONS/YR	346.00	163.90	47



Buffalo Creek RapidRun 3/23/2017

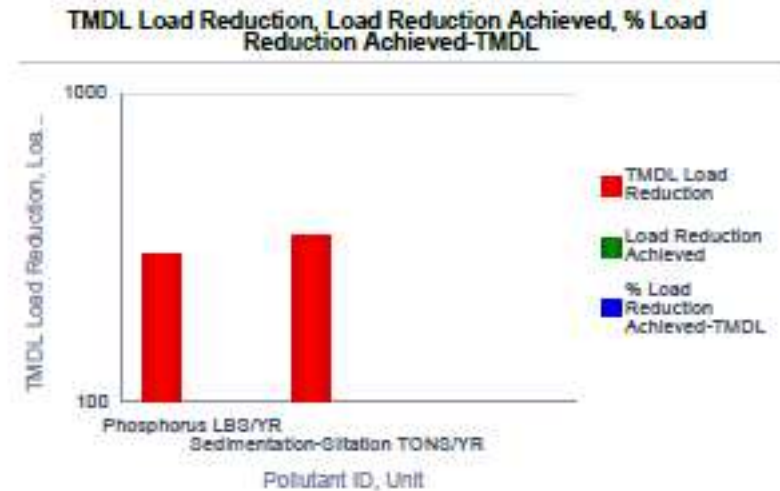
BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Access Road	390.00	0.00	FT	0
Conservation Tillage	272.00	0.00	AC	0
Cover Crop	7.80	0.00	AC	0
Grazing Planned Systems	362.00	0.00	AC	0
Heavy Use Area Protection	0.10	0.00	AC	0
Nutrient Management	726.00	0.00	AC	0
Riparian Forest Buffer	21.20	0.00	AC	0
Stream Crossing	8.00	0.00	UNITS	0
Stream Exclusion with Grazing Land Management	15840.00	0.00	FT	0
Stream Habitat Improvement and Management	0.00	200.00	FT	
Waste Storage Facility	1.00	0.00	UNITS	0



BMP/Action, Goal Amount, Implemented Amount, Unit

Buffalo Creek RapidRun 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Phosphorus	LBS/YR	298.00	0.00	0
Sedimentation-Siltation	TONS/YR	346.00	0.00	0



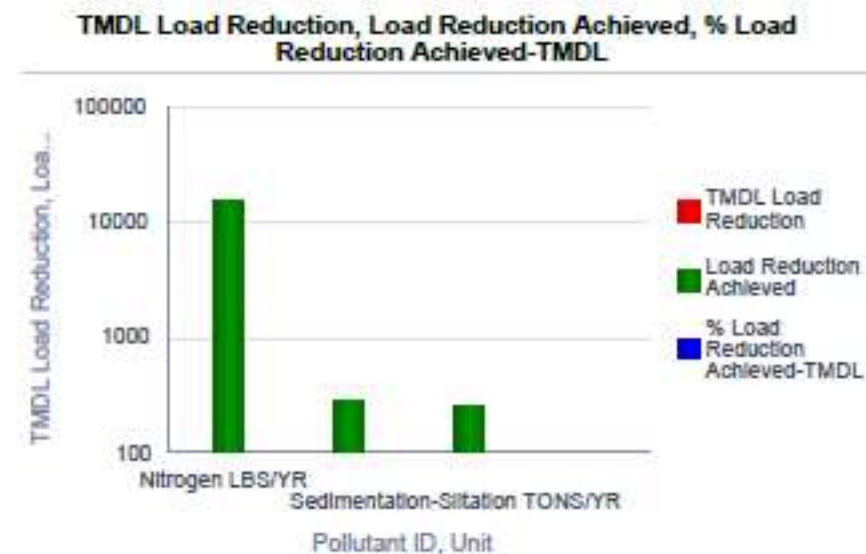
Buffalo Creek WestBufCr 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Plan		486.10	AC	
Cover Crop		40.00	AC	



Buffalo Creek WestBufCr 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR		15455.30	
Phosphorus	LBS/YR		286.30	
Sedimentation-Siltation	TONS/YR		250.60	



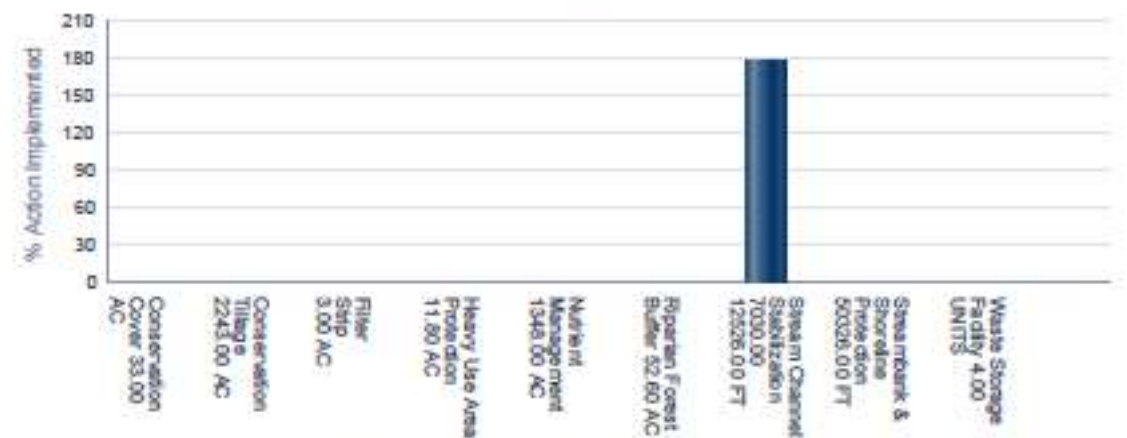
Codorus Creek EBrCodCr 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Cover		33.00	AC	
Conservation Plan		1086.00	AC	
Conservation Tillage		2243.00	AC	
Cover Crop		43.00	AC	
Filter Strip		3.00	AC	
Grassed Waterway		7.40	AC	
Heavy Use Area Protection		11.80	AC	
Livestock Stream Crossing		4.00	UNITS	
Nutrient Management		1348.00	AC	
Prescribed Grazing		179.40	AC	
Riparian Forest Buffer		52.60	AC	
Stormwater Management		25.00	AC	
Stream Channel Stabilization	7030.00	12526.00	FT	178
Stream Exclusion with Grazing Land Management		3700.00	FT	
Streambank & Shoreline Protection		50326.00	FT	
Stripcropping		374.00	AC	
Waste Storage Facility		4.00	UNITS	
Wetland Restoration		11.10	AC	

Codorus Creek EBrCodCr 3/23/2017

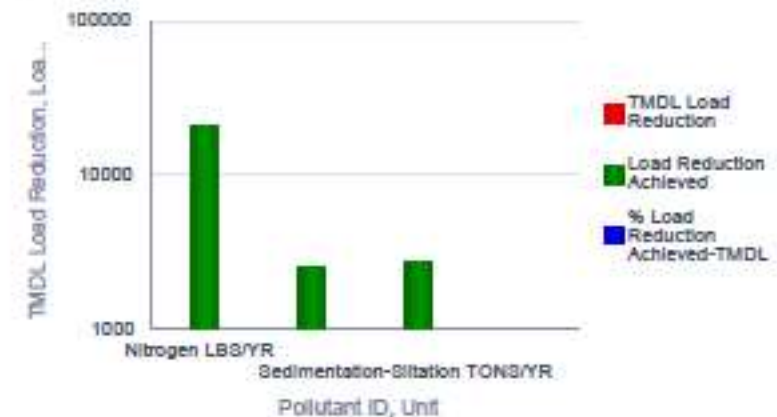
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	20667.50	
Phosphorus	LBS/YR	0.00	2493.20	
Sedimentation-Siltation	TONS/YR	0.00	2708.70	

% Action Implemented



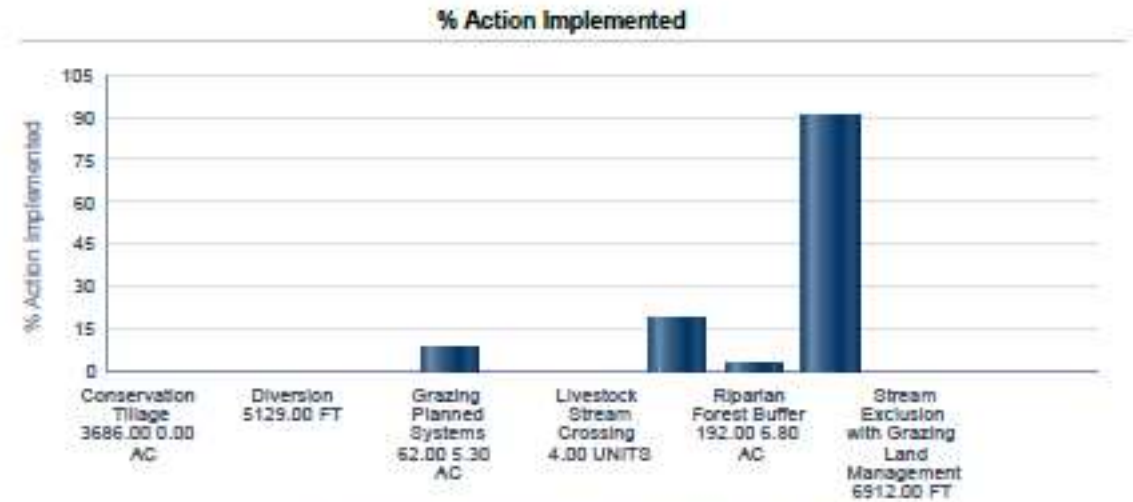
BMP/Action, Goal Amount, Implemented Amount, Unit

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Codorus Creek OIIrCodCr 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Tillage	3686.00	0.00	AC	0
Contour Farming		113.00	AC	
Diversion		5129.00	FT	
Grassed Waterway		1.30	AC	
Grazing Planned Systems	62.00	5.30	AC	9
Heavy Use Area Protection		9.60	AC	
Livestock Stream Crossing		4.00	UNITS	
Nutrient Management	994.00	182.50	AC	18
Riparian Forest Buffer	192.00	6.80	AC	4
Stream Channel Stabilization	3000.00	2706.00	FT	90
Stream Exclusion with Grazing Land Management		6912.00	FT	
Streambank & Shoreline Protection		5062.00	FT	

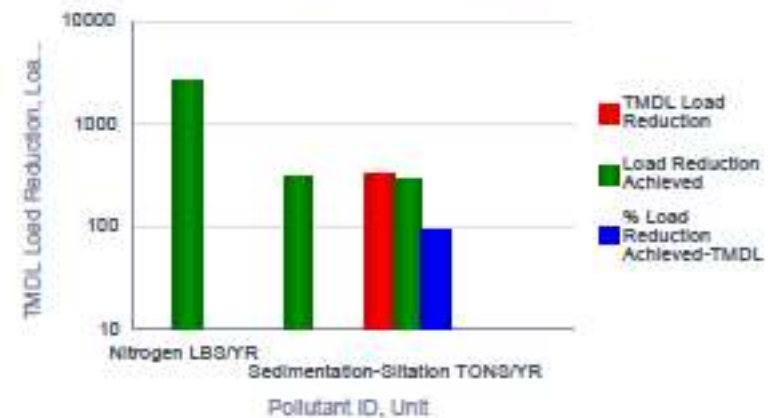


BMP/Action, Goal Amount, Implemented Amount, Unit

Codorus Creek OIIrCodCr 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	2569.20	
Phosphorus	LBS/YR	0.00	306.20	
Sedimentation-Siltation	TONS/YR	307.00	277.10	90

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



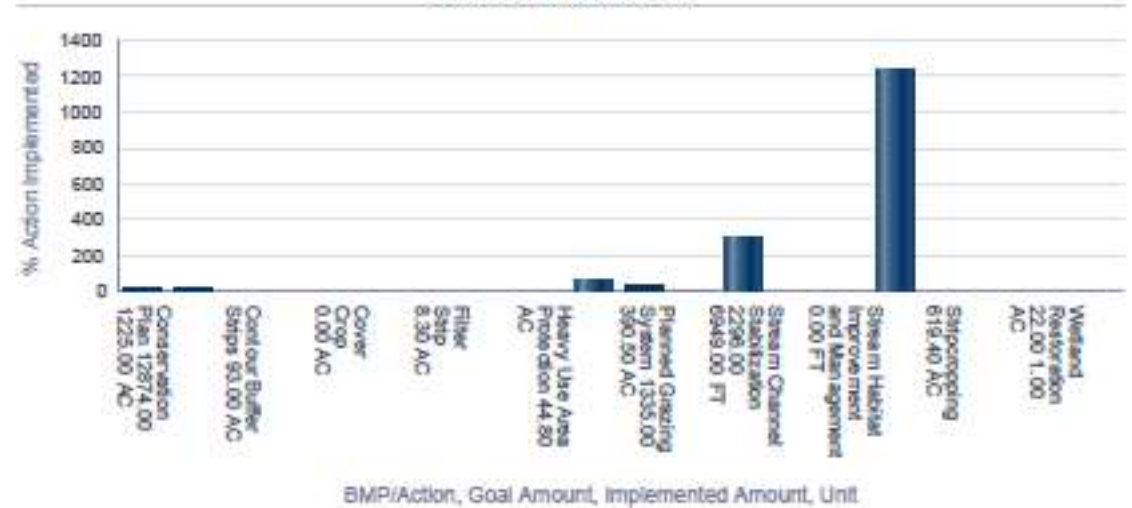
Codorus Creek SBrCodCr1 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Plan	12874.00	1225.00	AC	10
Conservation Tillage	12050.00	1240.40	AC	10
Contour Buffer Strips		93.00	AC	
Contour Farming		1484.00	AC	
Cover Crop		0.00	AC	
Diversion		8173.00	FT	
Filter Strip		8.30	AC	
Grassed Waterway		8.90	AC	
Heavy Use Area Protection		44.80	AC	
Nutrient Management	2286.00	1520.00	AC	66
Planned Grazing System	1335.00	390.50	AC	29
Riparian Forest Buffer	402.00	26.86	AC	7
Stream Channel Stabilization	2296.00	6949.00	FT	303
Stream Exclusion with Grazing Land Management		2400.00	FT	
Stream Habitat Improvement and Management		0.00	FT	
Streambank & Shoreline Protection	2296.00	28265.00	FT	1231
Stripcropping		619.40	AC	
Waste Storage Facility		9.00	UNITS	
Wetland Restoration	22.00	1.00	AC	5

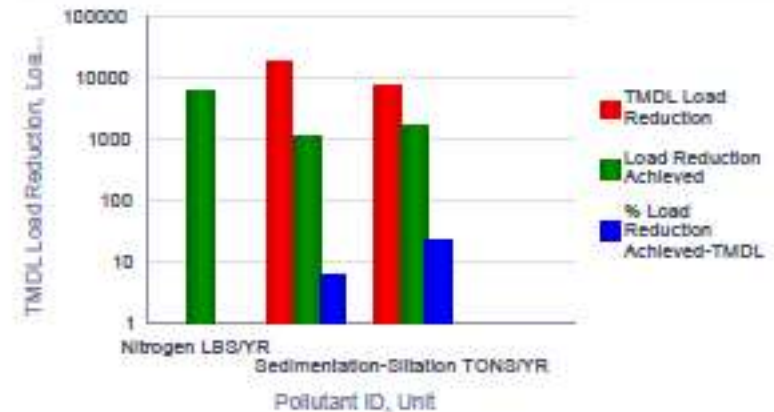
Codorus Creek SBrCodCr1 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBG/YR	0.00	6057.00	
Phosphorus	LBG/YR	17486.00	1092.30	6
Sedimentation-Siltation	TONS/YR	7684.00	1627.50	21

% Action Implemented

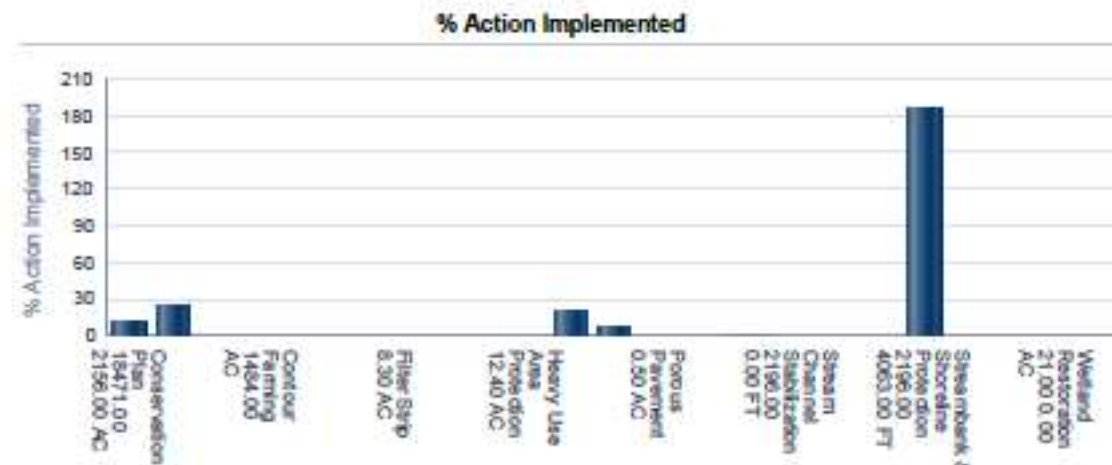


TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Codorus Creek SBrCodCr2 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Plan	18471.00	2156.00	AC	12
Conservation Tillage	10911.00	2631.00	AC	24
Contour Buffer Strips		93.00	AC	
Contour Farming		1484.00	AC	
Cover Crop		0.00	AC	
Diversion		8173.00	FT	
Filter Strip		8.30	AC	
Grassed Waterway		9.80	AC	
Heavy Use Area Protection		10.00	UNITS	
Heavy Use Area Protection		12.40	AC	
Nutrient Management	8497.00	1596.00	AC	19
Planned Grazing System	2399.00	148.40	AC	6
Porous Pavement		0.50	AC	
Rain garden/ bioretention basin		1.00	AC	
Riparian Forest Buffer	384.00	3.60	AC	1
Stream Channel Stabilization	2196.00	0.00	FT	0
Stream Exclusion with Grazing Land Management		2070.00	FT	
Stream Habitat Improvement and Management		0.00	FT	
Streambank & Shoreline Protection	2196.00	4063.00	FT	185
Stripcropping		464.00	AC	
Waste Storage Facility		9.00	UNITS	
Wetland Restoration	21.00	0.00	AC	0

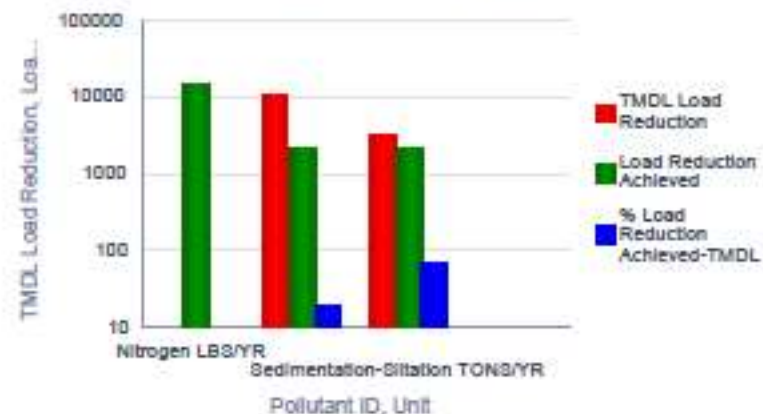


BMP/Action, Goal Amount, Implemented Amount, Unit

Codorus Creek SBrCodCr2 3/23/2017

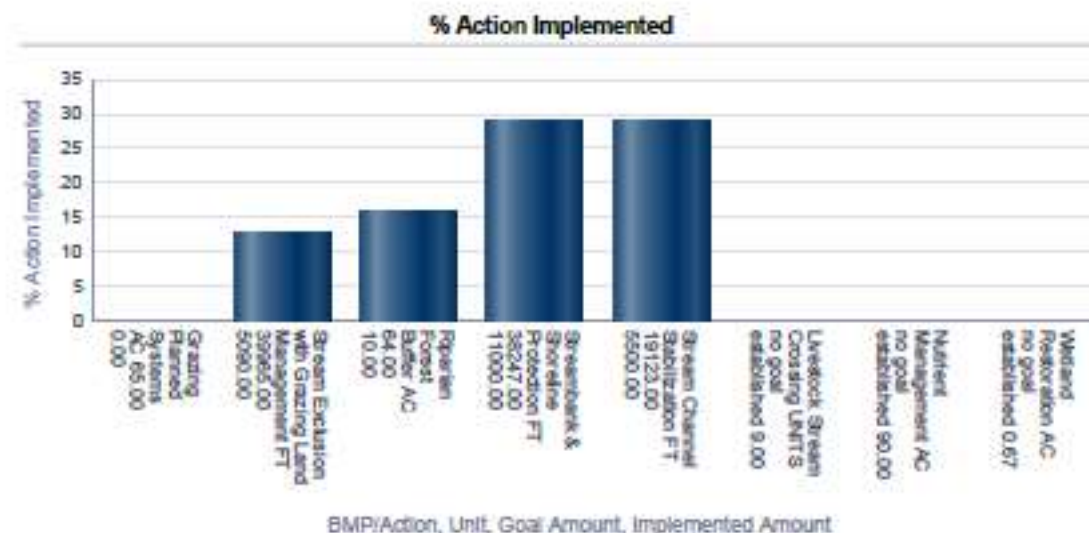
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	15249.60	
Phosphorus	LBS/YR	10778.00	2064.30	19
Sedimentation-Siltation	TONS/YR	3199.00	2239.50	70

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



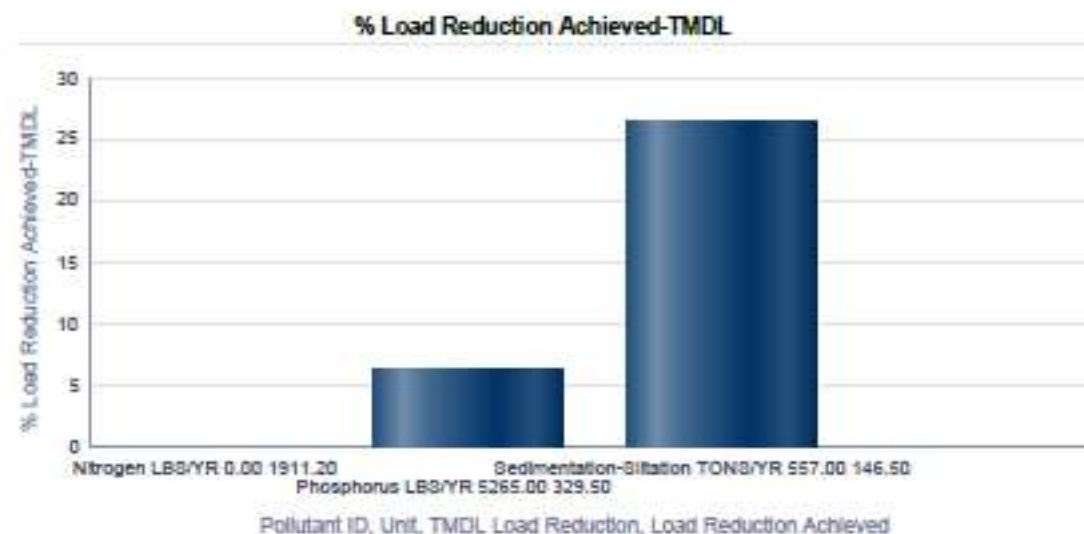
Conowingo Creek Conowingo5 3/23/2017

BMP/Action	Unit	Goal Amount	Implemented Amount	% Action Implemented
Grazing Planned Systems	AC	65.00	0.00	0
Stream Exclusion with Grazing Land Management	FT	39965.00	5090.00	13
Riparian Forest Buffer	AC	64.00	10.00	16
Streambank & Shoreline Protection	FT	38247.00	11000.00	29
Stream Channel Stabilization	FT	19123.00	5500.00	29
Livestock Stream Crossing	UNITS	no goal established	9.00	0
Nutrient Management	AC	no goal established	90.00	0
Wetland Restoration	AC	no goal established	0.67	0



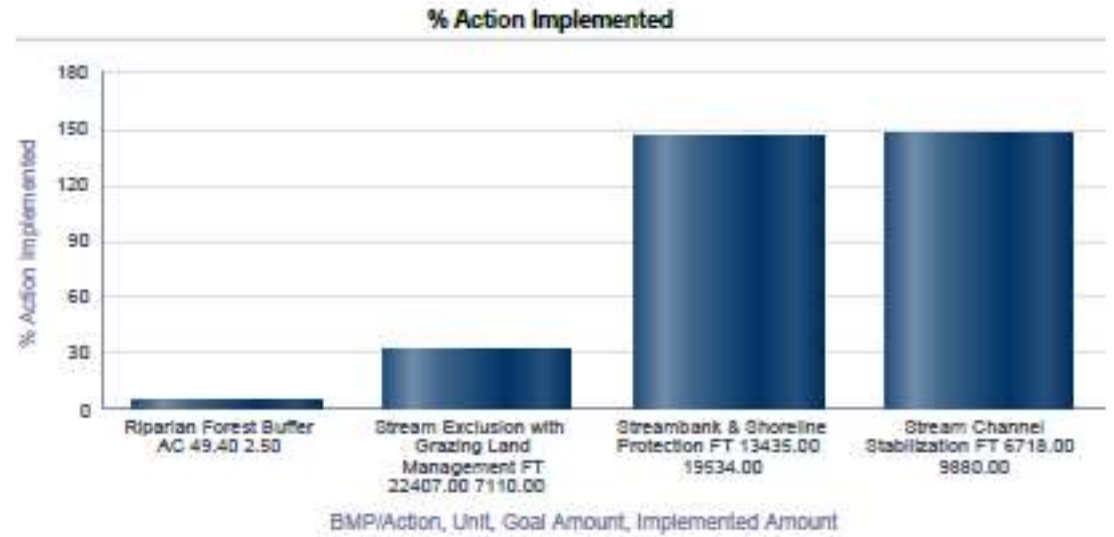
Conowingo Creek Conowingo5 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	1911.20	
Phosphorus	LBS/YR	5265.00	329.50	6
Sedimentation-Siltation	TONS/YR	557.00	146.50	26



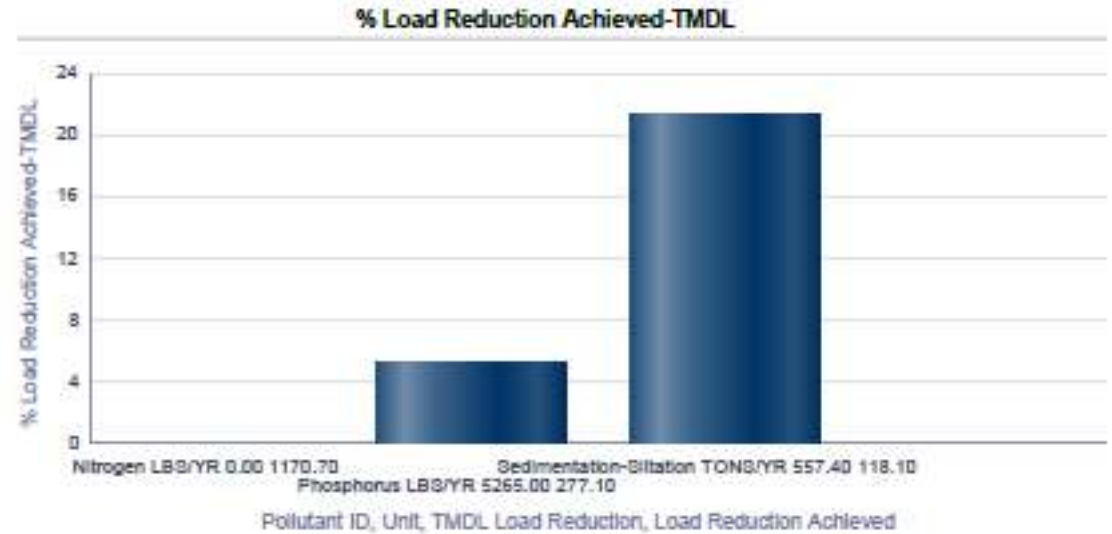
Conowingo Creek Conowingo6 3/23/2017

BMP/Action	Unit	Goal Amount	Implemented Amount	% Action Implemented
Riparian Forest Buffer	AC	49.40	2.50	5
Stream Exclusion with Grazing Land Management	FT	22407.00	7110.00	32
Streambank & Shoreline Protection	FT	13435.00	19534.00	145
Stream Channel Stabilization	FT	6718.00	9880.00	147



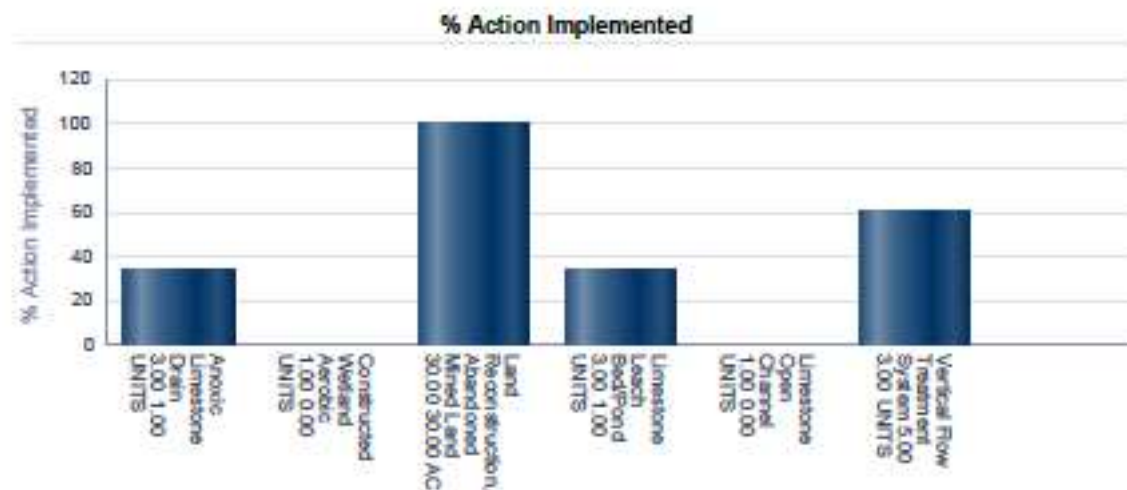
Conowingo Creek Conowingo6 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	1170.70	
Phosphorus	LBS/YR	5265.00	277.10	5
Sedimentation-Siltation	TONS/YR	557.40	118.10	21



Little Laurel Run LtlLau 3/23/2017

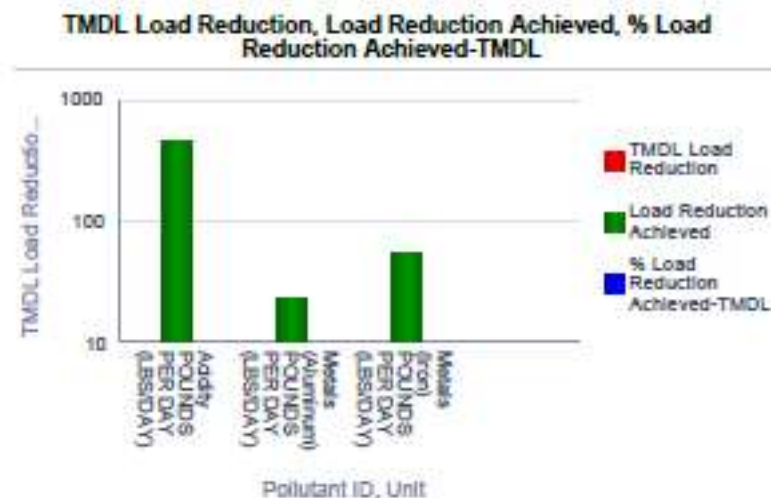
BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Anoxic Limestone Drain	3.00	1.00	UNITS	33
Constructed Wetland Aerobic	1.00	0.00	UNITS	0
Land Reconstruction, Abandoned Mined Land	30.00	30.00	AC	100
Limestone Leach Bed/Pond	3.00	1.00	UNITS	33
Limestone Open Channel	1.00	0.00	UNITS	0
Vertical Flow Treatment System	5.00	3.00	UNITS	60



BMP/Action, Goal Amount, Implemented Amount, Unit

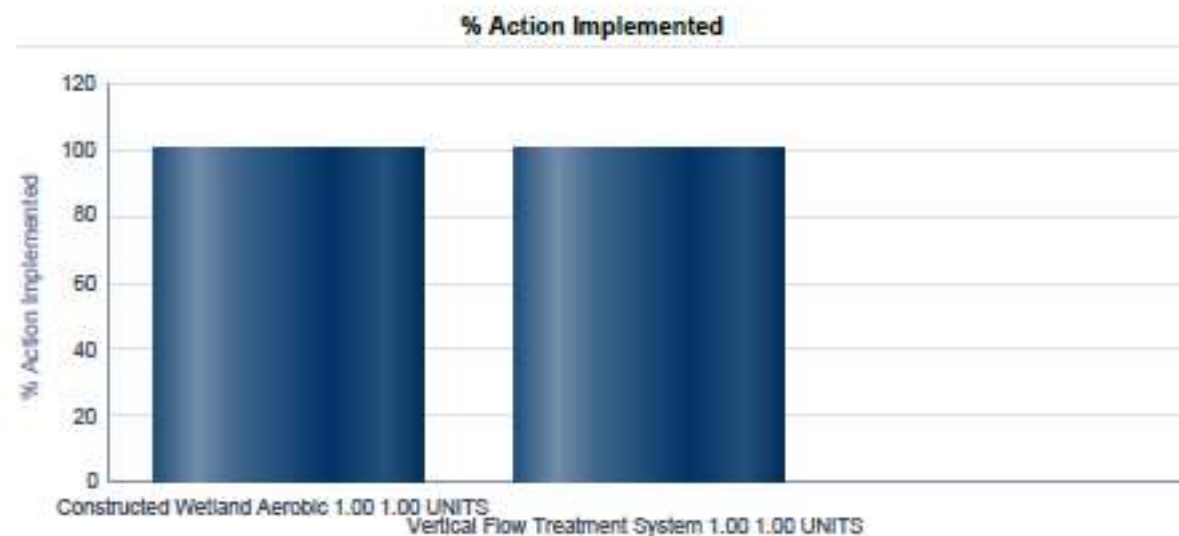
Little Laurel Run LtlLau 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)		451.50	
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)		23.70	
Metals (Iron)	POUNDS PER DAY (LBS/DAY)		53.50	



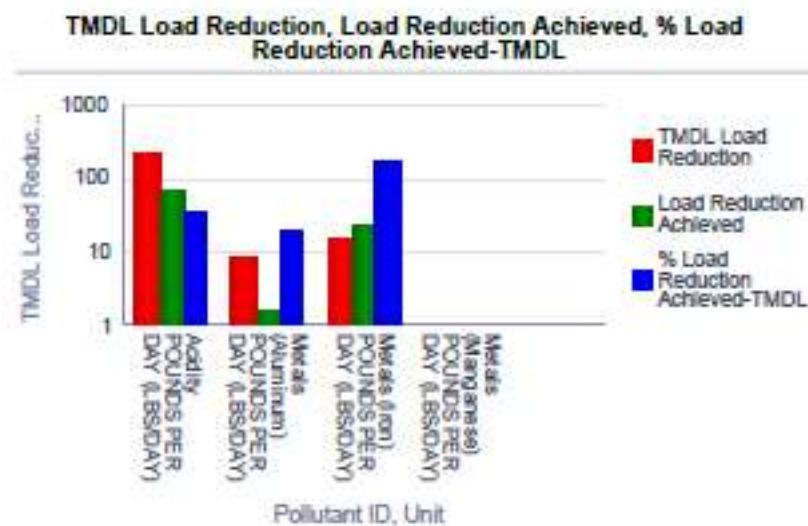
Longs Run PA Longs Run Site 62 3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Constructed Wetland Aerobic	1.00	1.00	UNITS	100
Vertical Flow Treatment System	1.00	1.00	UNITS	100



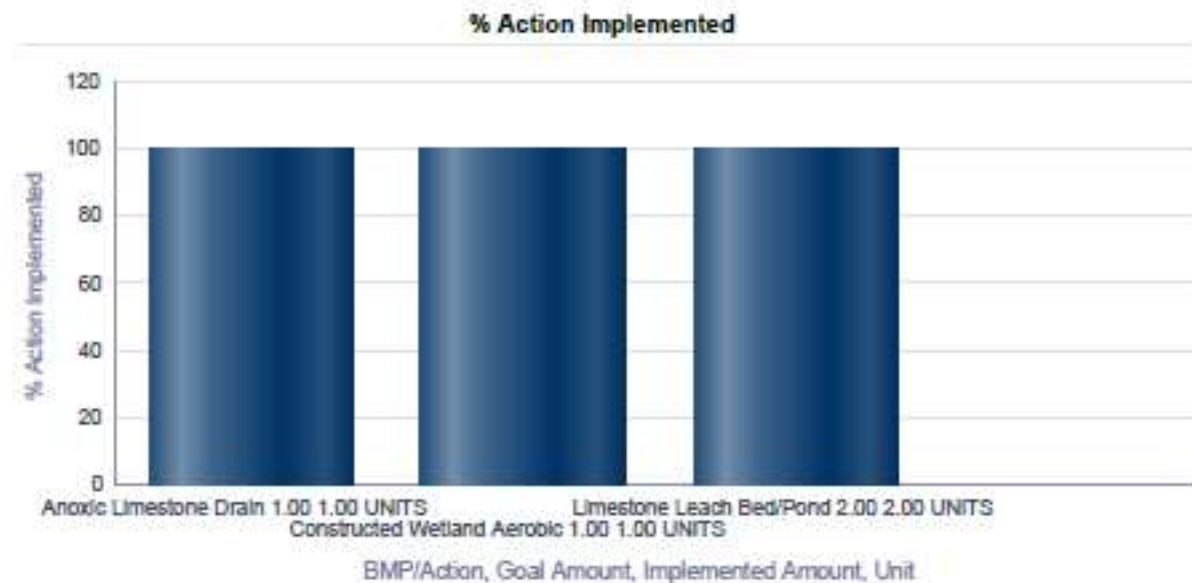
Longs Run PA Longs Run Site 62 3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	213.30	69.60	33
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	8.10	1.60	20
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	14.40	24.00	167
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	0.00		



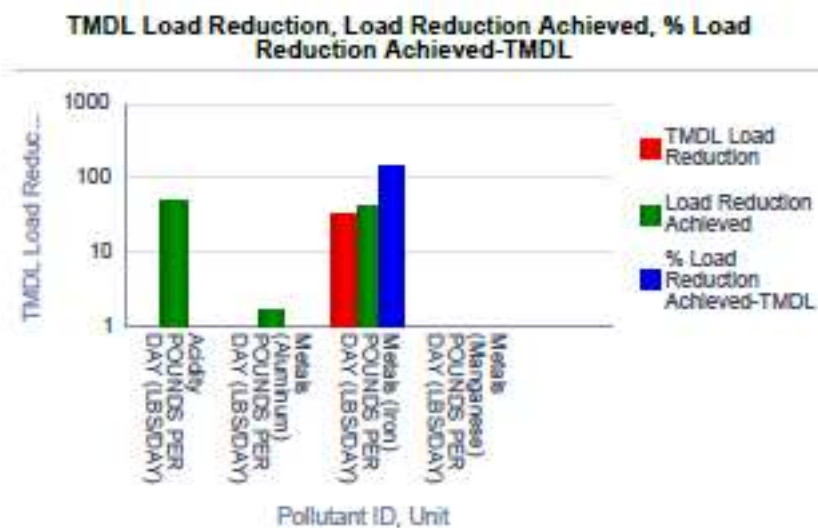
Longs Run PA Longs Run Site 63 3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Anoxic Limestone Drain	1.00	1.00	UNITS	100
Constructed Wetland Aerobic	1.00	1.00	UNITS	100
Limestone Leach Bed/Pond	2.00	2.00	UNITS	100



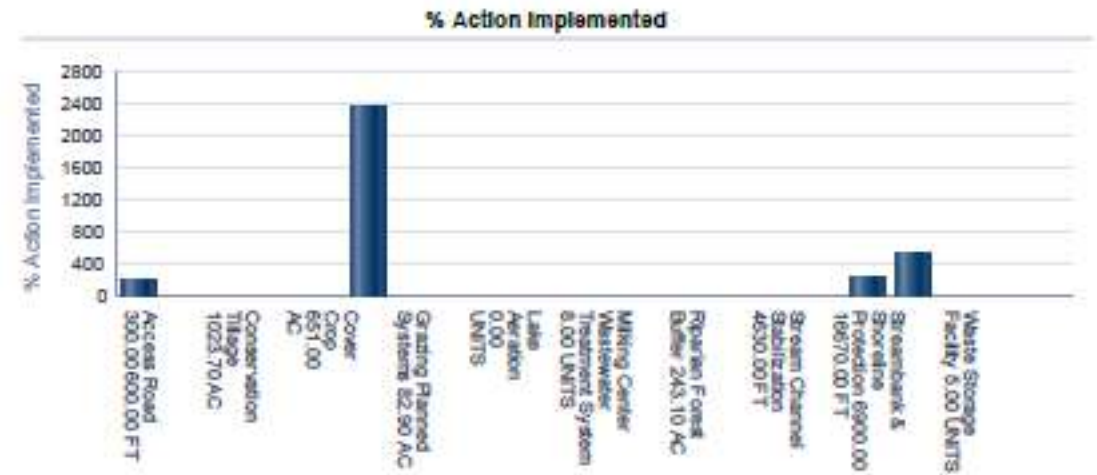
Longs Run PA Longs Run Site 63 3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	0.00	47.80	
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	0.00	1.60	
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	31.10	42.00	135
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	0.00	0.00	



Mill Creek (Bradford) PA SFLKBradCo 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Access Road	300.00	600.00	FT	200
Barriard Runoff Management		11.00	UNITS	
Conservation Tillage		1023.70	AC	
Contour Farming		867.00	AC	
Cover Crop		651.00	AC	
Diversion	2000.00	47172.00	FT	2359
Grazing Planned Systems		82.90	AC	
Heavy Use Area Protection	4000.00	0.00	SQUARE FEET	0
Lake Aeration		0.00	UNITS	
Livestock Stream Crossing		8.00	UNITS	
Milking Center Wastewater Treatment System		8.00	UNITS	
Nutrient Management		5066.00	AC	
Riparian Forest Buffer		243.10	AC	
Spring Development		3.00	UNITS	
Stream Channel Stabilization		4630.00	FT	
Stream Exclusion with Grazing Land Management		17713.00	FT	
Streambank & Shoreline Protection	6900.00	16670.00	FT	242
Waste Management System	2.00	11.00	UNITS	550
Waste Storage Facility		5.00	UNITS	
Wetland Restoration		21.70	AC	

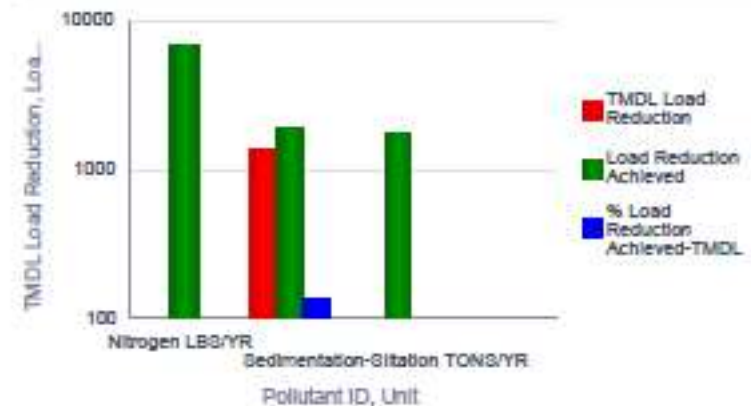


BMP/Action, Goal Amount, Implemented Amount, Unit

Mill Creek (Bradford) PA SFLKBradCo 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	6746.50	
Phosphorus	LBS/YR	1341.00	1855.20	138
Sedimentation-Siltation	TONS/YR	0.00	1751.10	

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



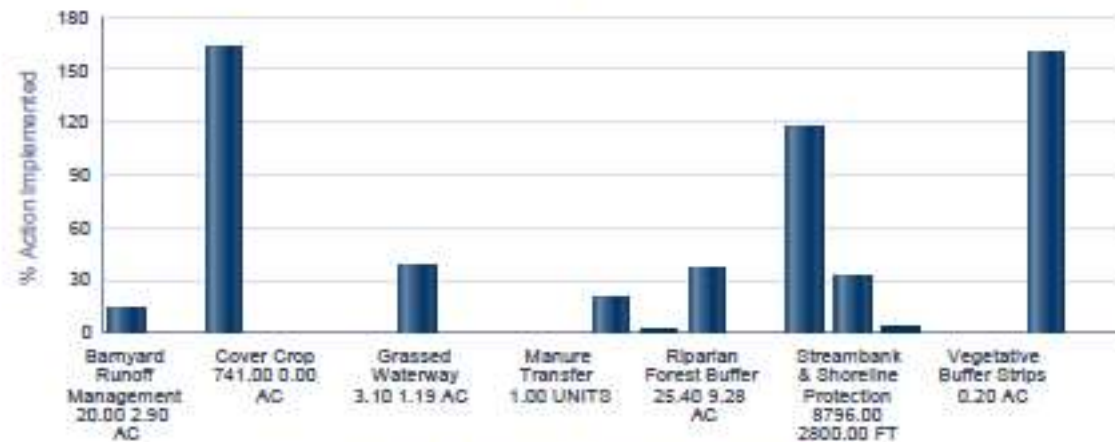
Mill Creek MillCrMuddy 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Barnyard Runoff Management	20.00	2.90	AC	14
Conservation Plan		690.00	AC	
Conservation Tillage	544.00	884.00	AC	163
Cover Crop	741.00	0.00	AC	0
Diversion		446.00	FT	
Filter Strip		0.20	AC	
Grassed Waterway	3.10	1.19	AC	38
Heavy Use Area Protection		0.02	AC	
Livestock Stream Crossing		6.00	UNITS	
Manure Transfer		1.00	UNITS	
Nutrient Management	1632.00	320.00	AC	20
Planned Grazing System	810.00	22.00	AC	3
Riparian Forest Buffer	25.40	9.28	AC	37
Roof Runoff Management		954.00	FT	
Stream Exclusion with Grazing Land Management	29040.00	34115.00	FT	117
Streambank & Shoreline Protection	8796.00	2800.00	FT	32
Stripcropping	1324.00	42.60	AC	3
Structure for Water Control		2.00	UNITS	
Vegetative Buffer Strips		0.20	AC	
Waste Storage Facility	10.00	16.00	UNITS	160

Mill Creek MillCrMuddy 3/23/2017

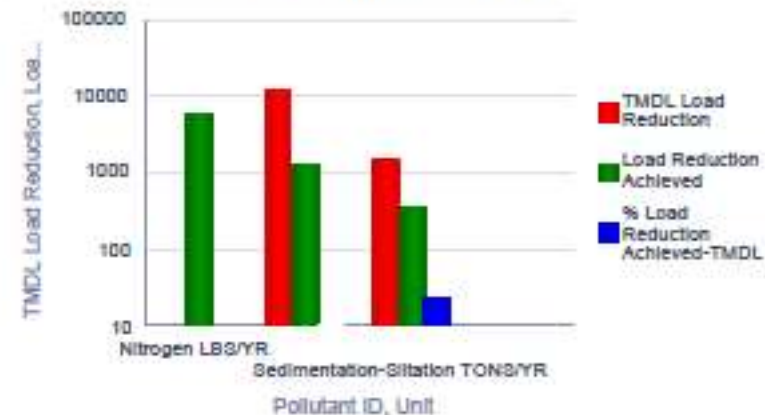
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	5704.60	
Phosphorus	LBS/YR	11910.00	1207.70	10
Sedimentation-Siltation	TONS/YR	1535.00	337.30	22

% Action Implemented



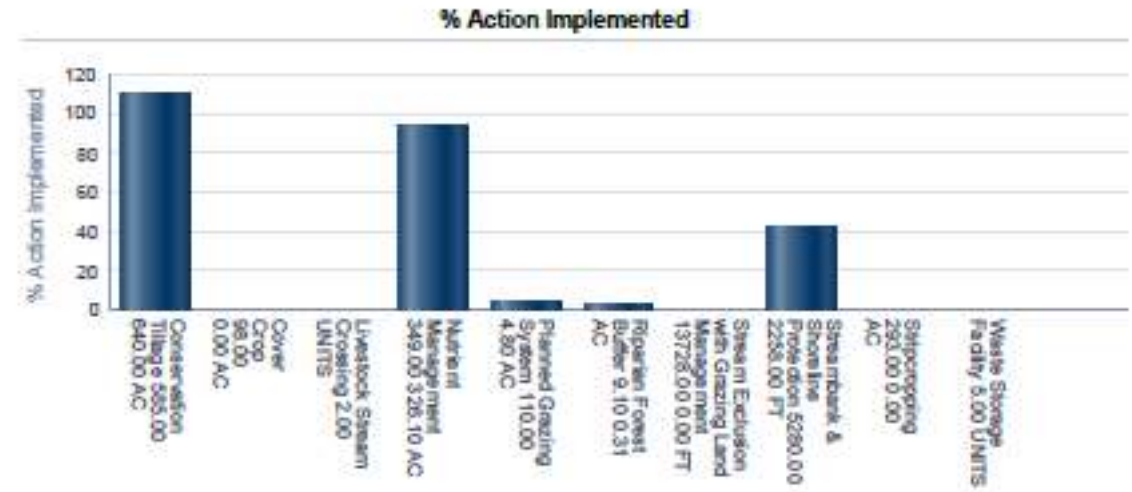
BMP/Action, Goal Amount, Implemented Amount, Unit

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Mill Creek MillCrUNT 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Conservation Tillage	585.00	640.00	AC	109
Cover Crop	98.00	0.00	AC	0
Livestock Stream Crossing		2.00	UNITS	
Nutrient Management	349.00	326.10	AC	93
Planned Grazing System	110.00	4.80	AC	4
Riparian Forest Buffer	9.10	0.31	AC	3
Stream Exclusion with Grazing Land Management	13728.00	0.00	FT	0
Streambank & Shoreline Protection	5280.00	2258.00	FT	43
Stripcropping	293.00	0.00	AC	0
Waste Storage Facility		5.00	UNITS	

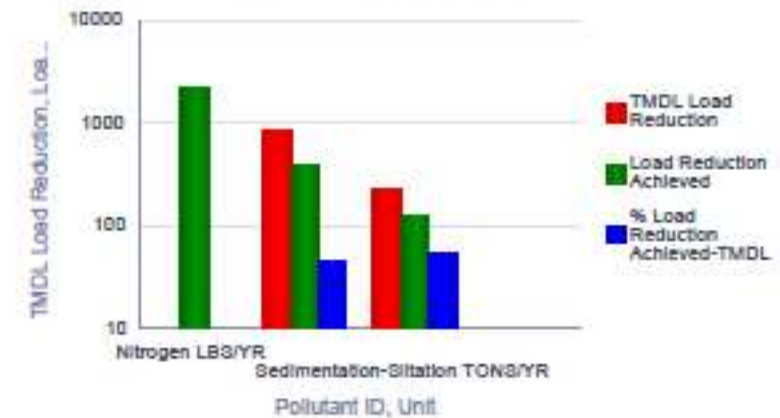


BMP/Action, Goal Amount, Implemented Amount, Unit

Mill Creek MillCrUNT 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LB3/YR		2170.50	
Phosphorus	LB3/YR	859.00	378.20	44
Sedimentation-Siltation	TON3/YR	228.00	121.60	53

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL

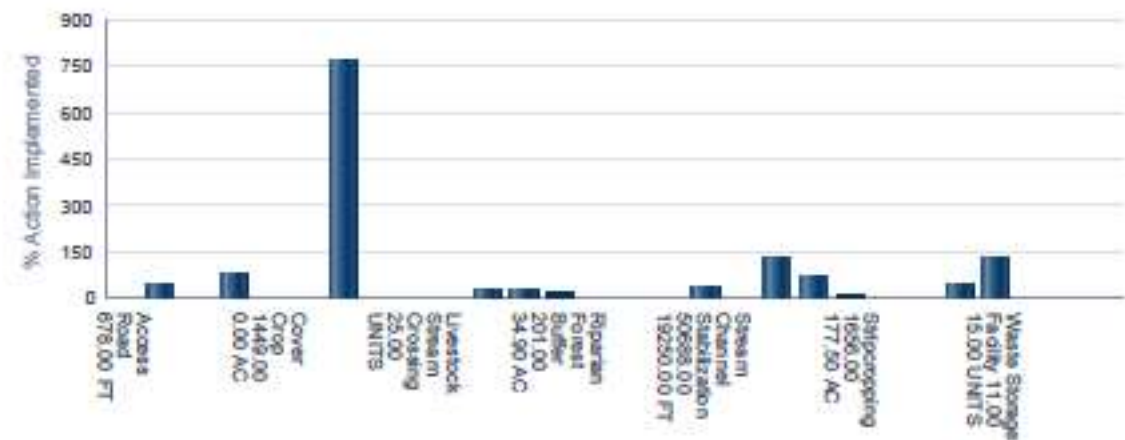


BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Access Road		678.00	FT	
Bamyard Runoff Management	42.00	20.00	UNITS	48
Conservation Plan		524.00	AC	
Conservation Tillage	1656.00	1269.00	AC	77
Cover Crop	1449.00	0.00	AC	0
Diversion		28.70	AC	
Grassed Waterway	17.00	131.40	AC	773
Heavy Use Area Protection		0.90	AC	
Livestock Stream Crossing		25.00	UNITS	
Manure Transfer		1.00	UNITS	
Nutrient Management	3765.00	1136.30	AC	30
Planned Grazing System	495.00	150.00	AC	30
Riparian Forest Buffer	201.00	34.90	AC	17
Roof Runoff Management		4419.90	FT	
Sediment Basin		1.00	UNITS	
Stream Channel Restoration (Dam removal)		2.00	UNITS	
Stream Channel Stabilization	50688.00	19250.00	FT	38
Stream Crossing		1.00	UNITS	
Stream Exclusion with Grazing Land Management	79728.00	103729.00	FT	130
Streambank & Shoreline Protection	50688.00	35633.00	FT	70
Stripcropping	1656.00	177.50	AC	11
Terrace		3264.00	FT	
Underground Outlet		850.00	FT	
Waste Management System	22.00	11.00	UNITS	50
Waste Storage Facility	11.00	15.00	UNITS	136
Watering Facility		2.00	UNITS	
Wetland Restoration		8.00	AC	

Mill Creek MillCrmain 3/23/2017

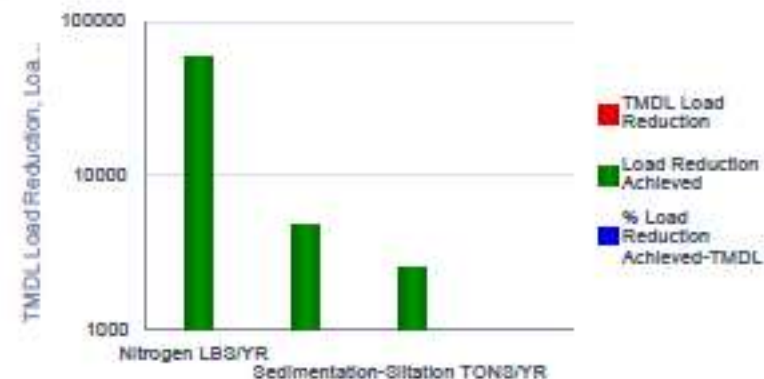
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Nitrogen	LBS/YR	0.00	59665.40	
Phosphorus	LBS/YR	0.00	4762.80	
Sedimentation-Siltation	TONS/YR	0.00	2463.00	

% Action Implemented



BMP/Action, Goal Amount, Implemented Amount, Unit

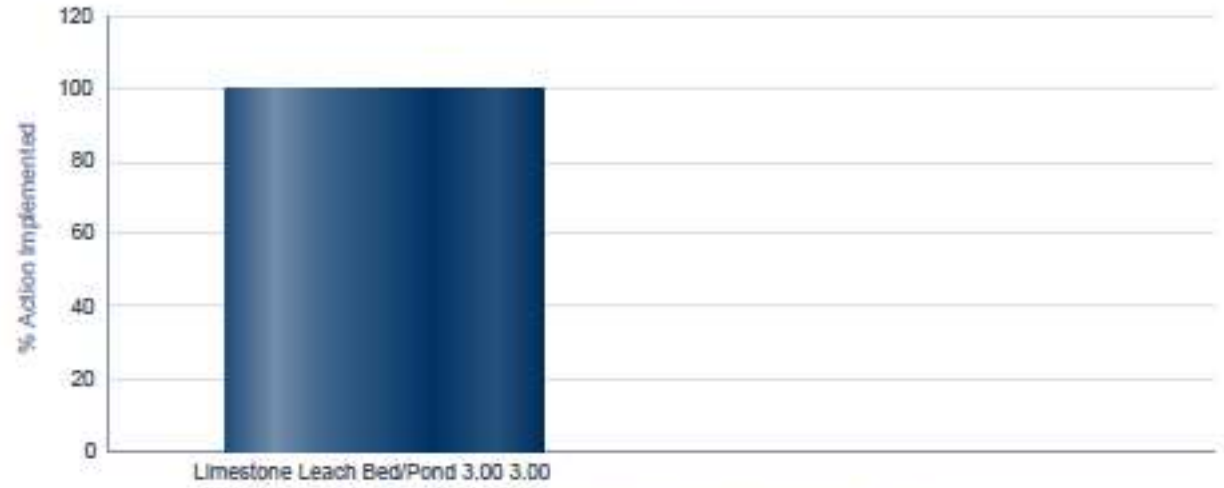
TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Montgomery Creek PA MC UNT>MT1 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	3.00	3.00		100

% Action Implemented

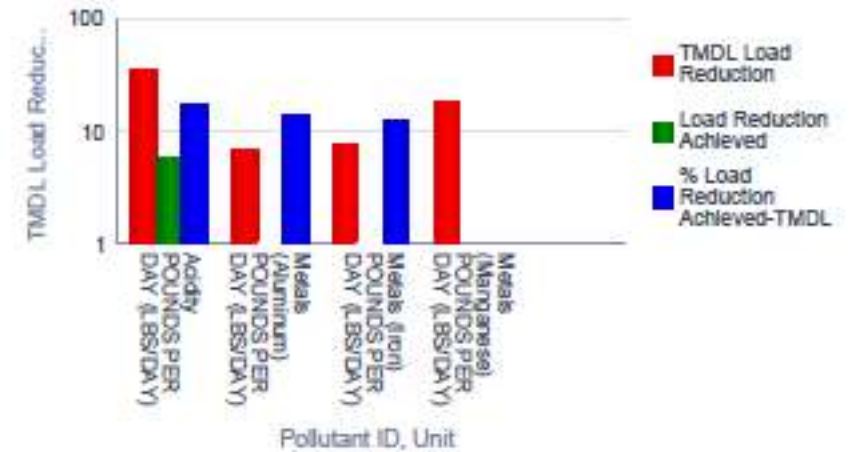


BMP/Action, Goal Amount, Implemented Amount, Unit

Montgomery Creek PA MC UNT>MT1 3/23/2017

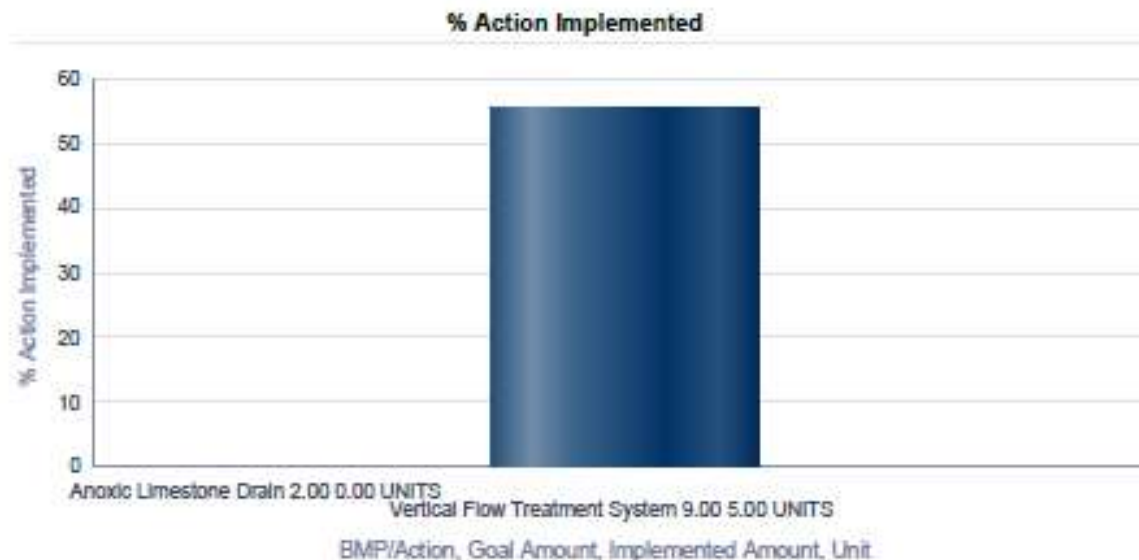
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	35.20	6.00	17
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	7.10	1.00	14
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	8.00	1.00	13
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	17.80		

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



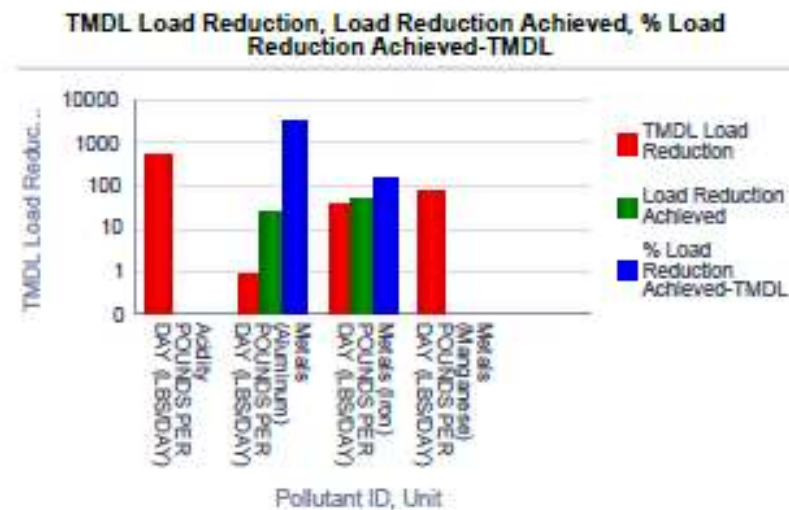
Sandy Run PA Sandy Run Site 09/3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Anoxic Limestone Drain	2.00	0.00	UNITS	0
Vertical Flow Treatment System	9.00	5.00	UNITS	56



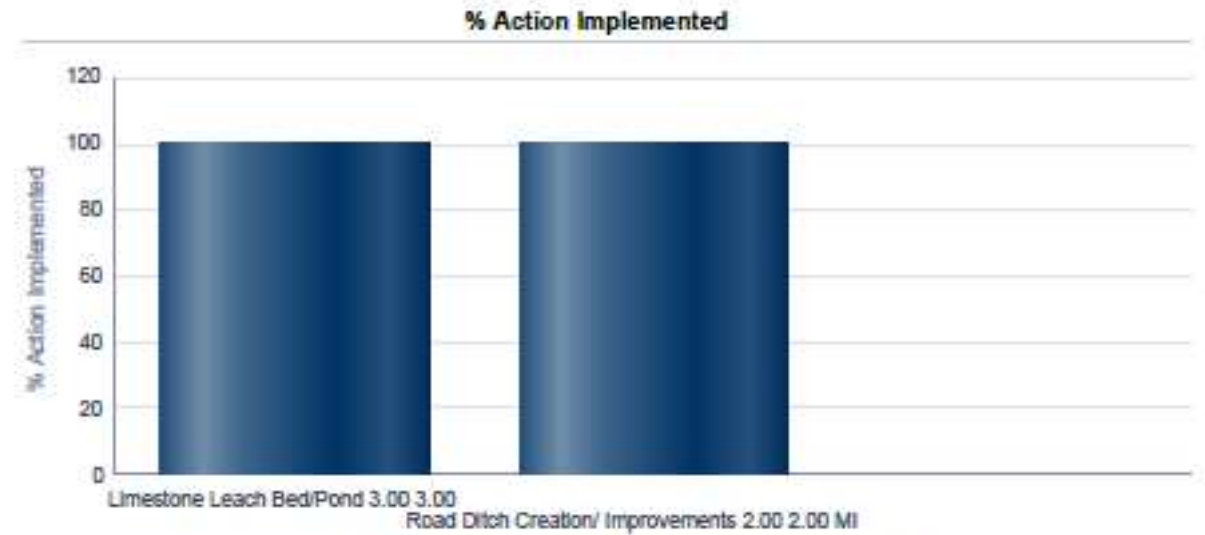
Sandy Run PA Sandy Run Site 09/3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	531.50	0.00	0
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	0.60	25.10	3138
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	33.20	45.00	136
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	66.40	0.00	0



Shoup Run Watershed PA Miller Run 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	3.00	3.00		100
Road Ditch Creation/ Improvements	2.00	2.00	MI	100

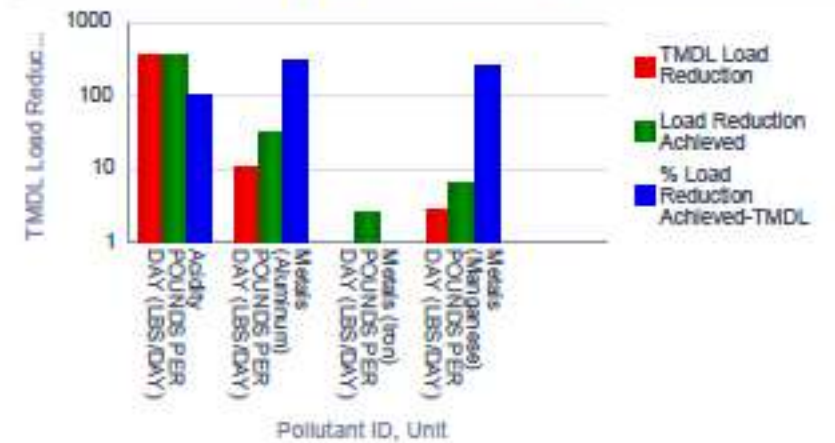


BMP/Action, Goal Amount, Implemented Amount, Unit

Shoup Run Watershed PA Miller Run 3/23/2017

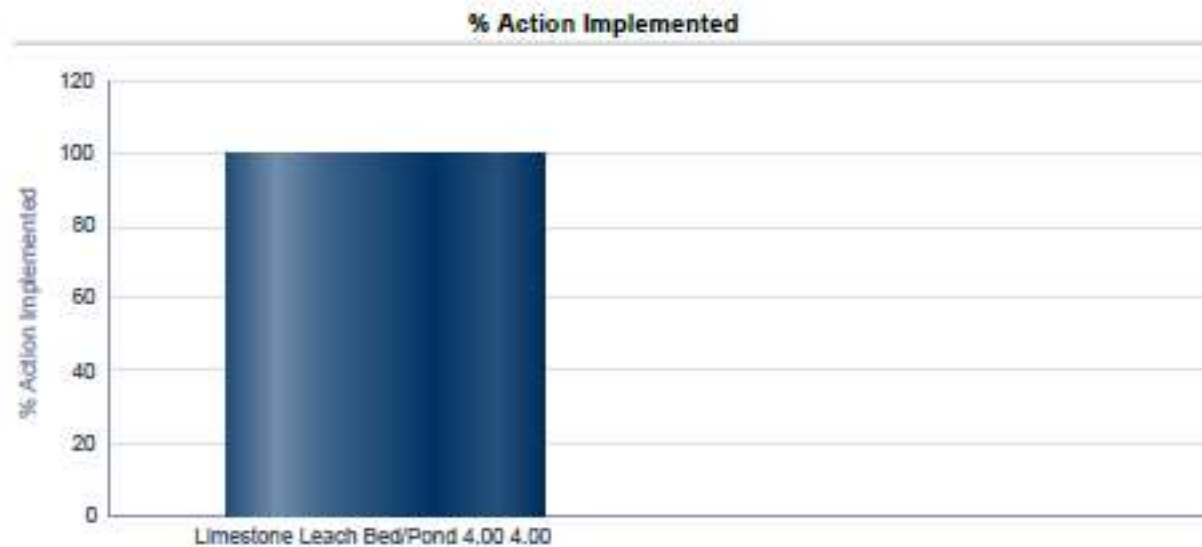
Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	327.00	326.70	100
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	10.30	31.39	305
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	0.00	2.48	
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	2.60	6.49	250

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Shoup Run Watershed PA Shoups Run 3/23/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	4.00	4.00		100

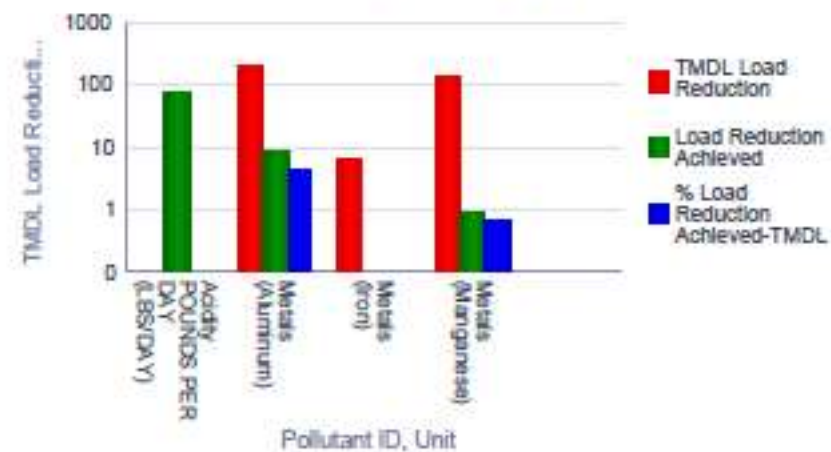


BMP/Action, Goal Amount, Implemented Amount, Unit

Shoup Run Watershed PA Shoups Run 3/23/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)		72.83	
Metals (Aluminum)		198.30	8.65	4
Metals (Iron)		6.30		
Metals (Manganese)		129.20	0.87	1

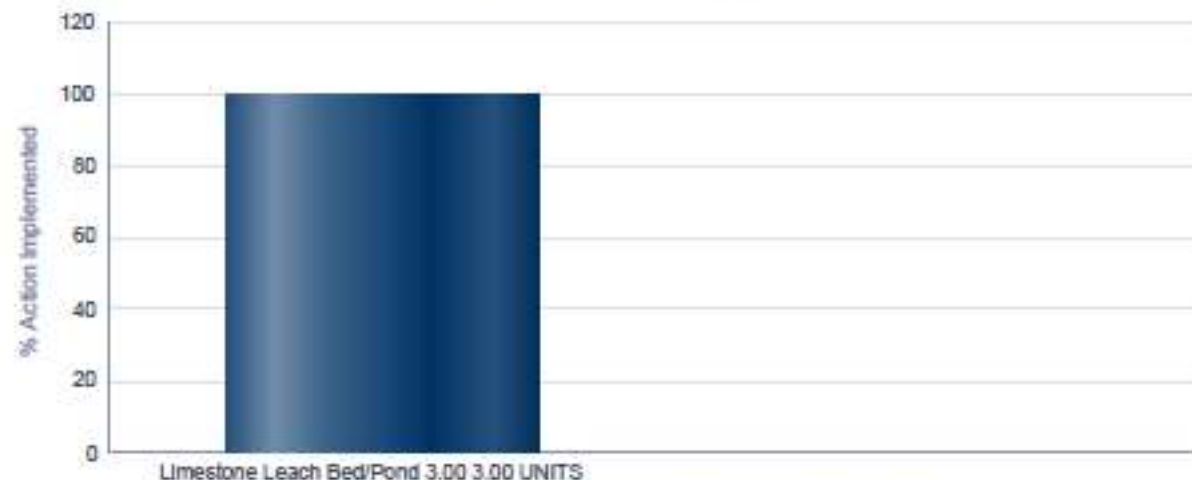
TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



Six Mile Run PA Six Mile Run Site 54 3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	3.00	3.00	UNITS	100

% Action Implemented

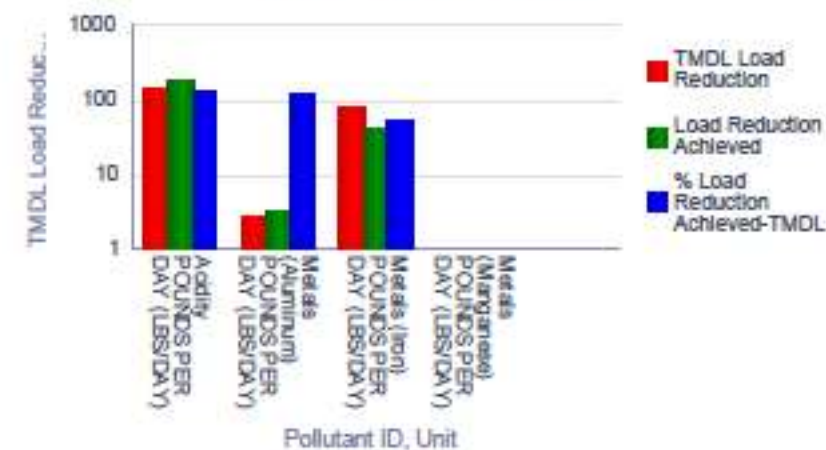


BMP/Action, Goal Amount, Implemented Amount, Unit

Six Mile Run PA Six Mile Run Site 54 3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	145.70	183.70	126
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	2.70	3.20	119
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	79.20	41.36	52
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	0.00	0.00	

TMDL Load Reduction, Load Reduction Achieved, % Load Reduction Achieved-TMDL



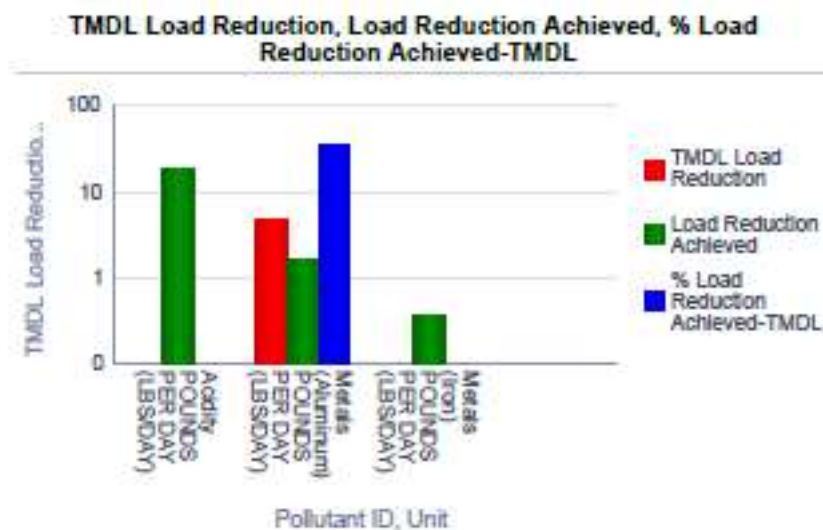
Six Mile Run PA Six Mile Run Site 57 3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	2.00	2.00	UNITS	100



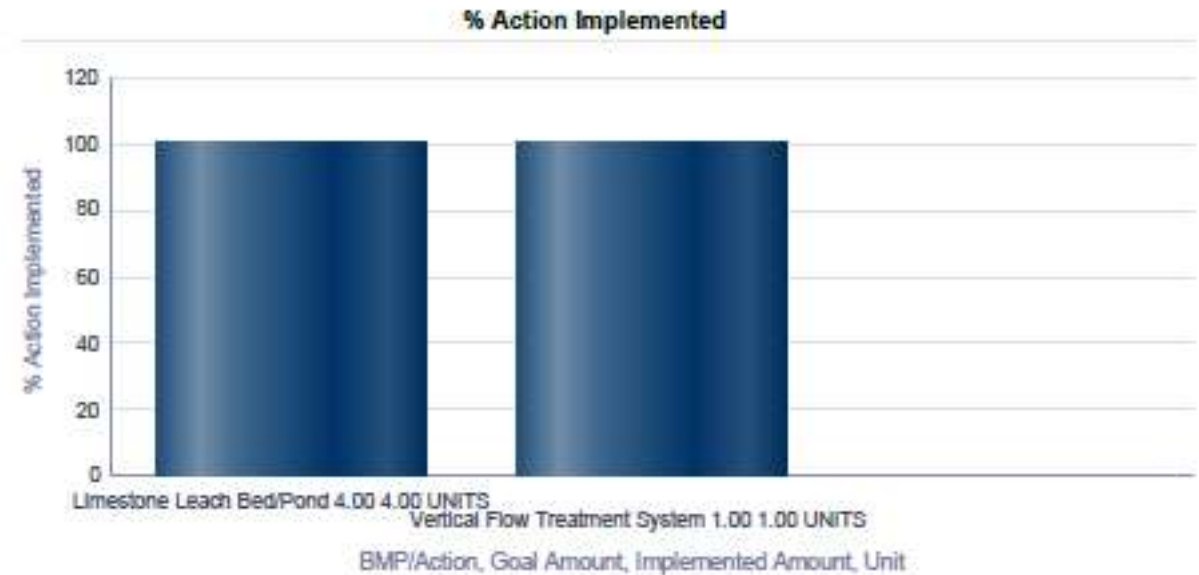
Six Mile Run PA Six Mile Run Site 57 3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	0.00	17.70	
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	4.60	1.63	34
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	0.00	0.37	



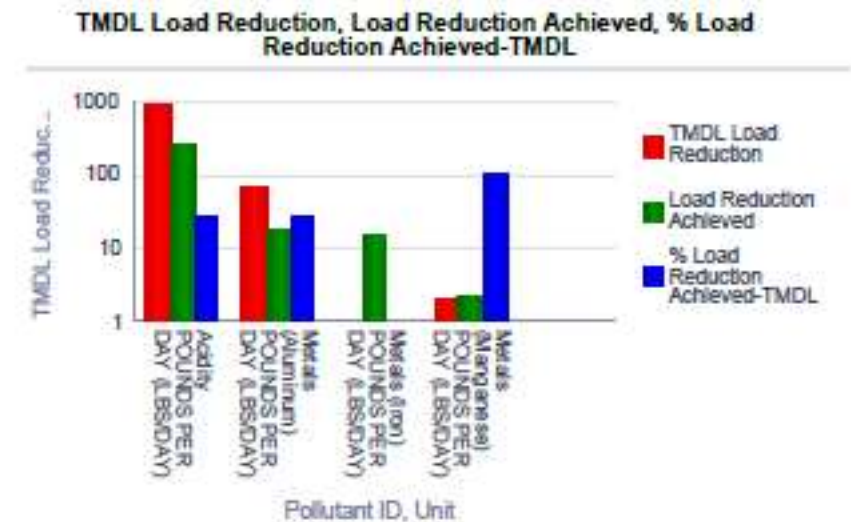
Six Mile Run PA Six Mile Run Site 68 3/20/2017

BMP/Action	Goal Amount	Implemented Amount	Unit	% Action Implemented
Limestone Leach Bed/Pond	4.00	4.00	UNITS	100
Vertical Flow Treatment System	1.00	1.00	UNITS	100



Six Mile Run PA Six Mile Run Site 68 3/20/2017

Pollutant ID	Unit	TMDL Load Reduction	Load Reduction Achieved	% Load Reduction Achieved-TMDL
Acidity	POUNDS PER DAY (LBS/DAY)	886.60	252.90	29
Metals (Aluminum)	POUNDS PER DAY (LBS/DAY)	65.90	17.69	27
Metals (Iron)	POUNDS PER DAY (LBS/DAY)	0.00	15.47	
Metals (Manganese)	POUNDS PER DAY (LBS/DAY)	2.10	2.18	104



Nonpoint Source Success Stories

Success Stories

About Success Stories

This **Nonpoint Source Success Stories** web site features stories about primarily nonpoint source-impaired waterbodies where restoration efforts have led to documented water quality improvements. **Waterbodies are separated into three categories of stories**, depending on the type of water quality improvement achieved:





NONPOINT SOURCE SUCCESS STORY

Pennsylvania

Lake Wallenpaupack Improves After Best Management Practices and Outreach are Implemented to Reduce Nonpoint Source Pollution

Waterbody Improved

Excess nutrients from agricultural and road runoff impaired Lake Wallenpaupack, one of Pennsylvania's most important recreational resources. As a result, Pennsylvania Department of Environmental Protection (PADEP) added the lake to its 1996 Clean Water Act (CWA) section 303(d) list of impaired waters. Providing technical assistance and implementing best management practices (BMPs) reduced phosphorous levels and has improved water quality. As a result, PADEP removed Lake Wallenpaupack from Pennsylvania's list of impaired waters in 2016.



NONPOINT SOURCE SUCCESS STORY

Pennsylvania

Reclaiming Abandoned Mine Lands Reduces Impact of Acid Mine Drainage in the Bennett Branch Basin

Waterbodies Improved

Acid mine drainage (AMD) degraded water quality in Pennsylvania's Bennett Branch Sinnemahoning Creek. As a result, Pennsylvania added the stream to its 1996 Clean Water Act (CWA) section 303(d) list of impaired waters for high metal concentrations. To address the AMD problem, significant partnerships were developed with the mining industry to accomplish mine reclamation and to use recoverable coal and waste coal resources. Water quality in Bennett Branch has dramatically improved after restoration, with decreased metal concentrations and increased alkalinity.

Stories of Progress in Achieving Healthy Waters

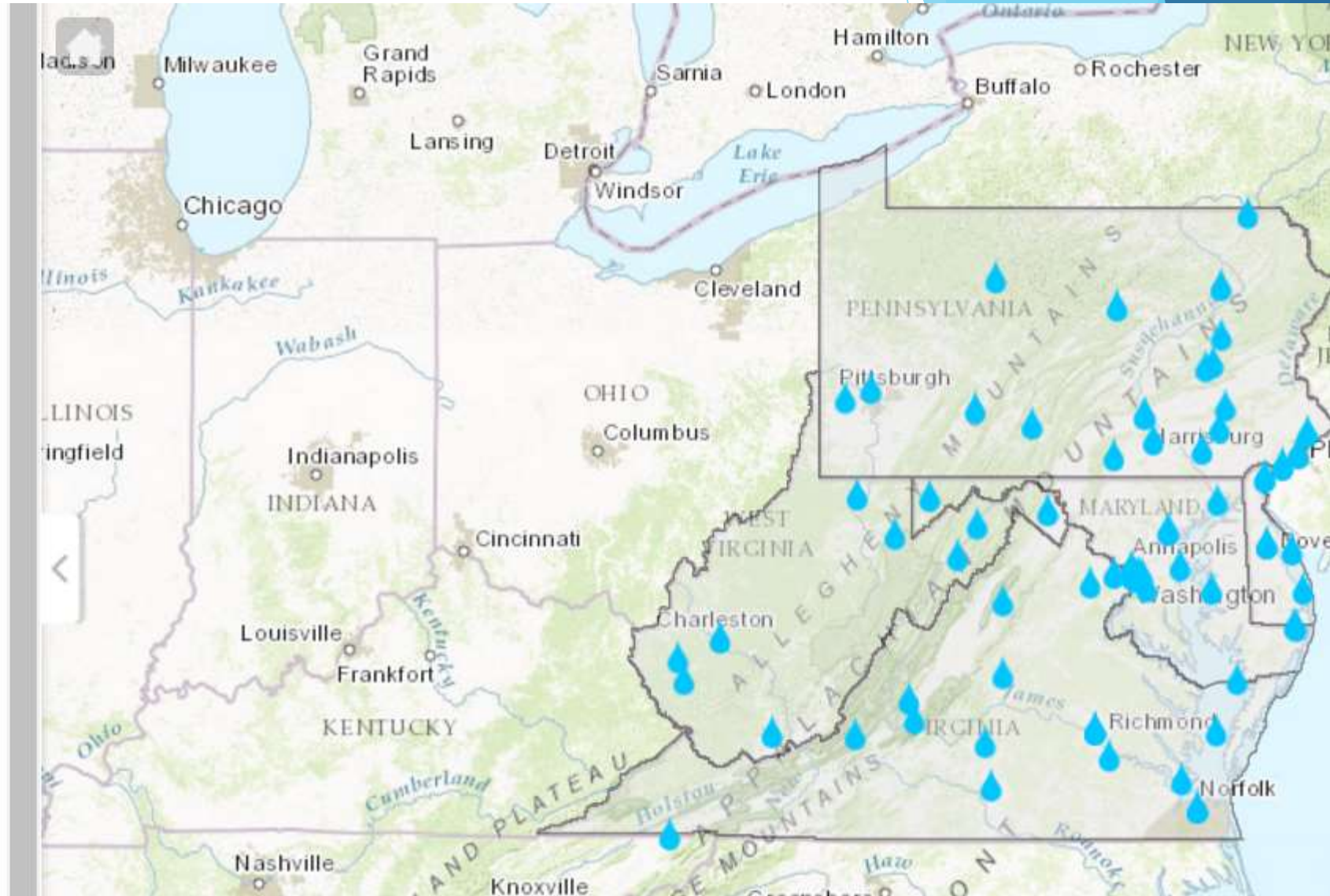
Click on the blue water droplets* for examples of how the U.S. Environmental Protection Agency (EPA) is working with partners to make a positive difference in Mid-Atlantic communities by restoring rivers and streams, protecting drinking water sources and more.

View a list of the state stories of progress by clicking on the links below:

[Delaware](#), [District of Columbia](#), [Maryland](#), [Pennsylvania](#), [Virginia](#), and [West Virginia](#)

Program contact: Damm.Thomas@epa.gov

Technical contact: Pruzinsky.Amanda@epa.gov



Turning Main Street into a Green Street

Stories of Progress in Achieving Healthy Waters

U.S. EPA Region 3 Water Protection Division

Etna, Pennsylvania • November 12, 2015



The Pennsylvania Nonpoint Source Pollution Management Program Annual Report

FFY 2016

October 1, 2015 through September 30, 2016



F A TREE FALLS IN THE WOODS
AND NO ONE IS THERE TO
TWITTER ABOUT IT....

...DOES IT MAKE
A SOUND?



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