

EAST OF HUDSON WATERSHED CORPORATION

2017 ANNUAL REPORT



Existing Outfall on Schoolhouse Rd, Lewisboro, New York

Date: March 2018

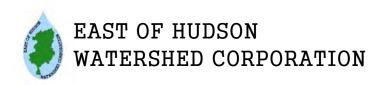


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1. INTRODUCTION

This Annual Report has been prepared to provide a summary of the completed, current, and upcoming activities; and financial status; of the East of Hudson Watershed Corporation (EOHWC). This Annual Report also includes limited information about the stormwater retrofit projects (SRPs) completed by the members prior to the formation of EOHWC. It is submitted in fulfillment of the requirements of Part IX.A.5.b of the May 1, 2010, SPDES General Permit for Stormwater Discharges from MS4's (MS4 Permit).

The EOHWC was formed on October 19, 2011 under Section 1411 of the New York State Not-For-Profit Corporation Law. The EOHWC is operated for charitable purposes, has received federal tax exemption as a 501(c)(3), and was established to administer, coordinate, and implement the East of Hudson (EOH) regional stormwater retrofit plans. The regional stormwater retrofit plans were developed as a response to the heightened phosphorus removal requirements of the New York State Department of Environmental Conservation (NYSDEC) General Permit GP-0-08-002 Municipal Separate Storm Sewer Systems Permit (MS4 General Permit).

The MS4 General Permit became effective on May 1, 2008; and was replaced by GP-0-10-002 which became effective on May 1, 2010 and expired on April 30, 2015. The GP-0-15-003 permit was issued in April 2015 and became effective on May 1, 2015. GP-0-15-003 is a two (2) year interim permit intended to cover discharges of stormwater to surface waters of the State from small MS4s.

As issued, GP-0-15-003 contains only conforming changes, such as a new general permit identification number, a two (2) year term, and updated references to the SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-15-002) and Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-12-001). Throughout this Annual Report, reference is made to Year 1

(2010), Year 2 (2011), Year 3 (2012), Year 4 (2013), Year 5 (2014-2016), and Year 6(2017).

The EOHWC is a Regional Stormwater Entity (RSE) with 19 members (18 municipalities and one County), operating in 18 municipalities and three Counties in the EOH watershed. The EOHWC is governed by a Board of Directors, composed of the chief elected official of each member. The chief elected official may delegate authority to another municipal employee. Each member has passed resolutions to join the EOHWC and authorize implementation of the regional stormwater retrofit plans by the EOHWC on behalf of each member.

2. ORGANIZATION

Daily operations of the EOHWC are completed by the supporting staff. The staff employees for the calendar year 2017 were:

- 1. Director of Engineering: Kevin Fitzpatrick, P.E. (Start Date: March 4, 2013)
- 2. Comptroller: Joanne Tavino (Start date: August 12, 2014)
- 3. Sr. Project Manager: John Belyea, P.E., M.S. EnvE., (End Date: June 16, 2017)
- 4. Records Management Coordinator: Linda Matera (Start Date: September 29, 2014)
- 5. Accounts Payable Coordinator: Yvette Rivera (Start Date: September 29, 2014)

The Board Members which served through 2017 are:

- 1. Town of Bedford: Chris Burdick
- 2. Village of Brewster: James Schoenig
- 3. Town of Carmel: Kenneth Schmitt
- 4. Town of Cortlandt: Linda Puglisi
- 5. Town of Kent: Maureen Fleming
- 6. Town of Lewisboro: Peter Parsons (President)
- 7. Village of Mount Kisco: J. Michael Cindrich
- 8. Town of New Castle: Robert Greenstein
- 9. Town of North Castle: Michael Schiliro
- 10. Town of North Salem: Warren Lucas (Treasurer)
- 11. Town of Patterson: Richard Williams (Vice President)
- 12. Town of Pawling: David Kelly (Secretary)
- 13. Village of Pawling: Robert Liffland
- 14. Putnam County: Mary Ellen O'Dell
- 15. Town of Putnam Valley: Samuel Oliverio
- 16. Town of Pound Ridge: Richard Lyman
- 17. Town of Somers: Rick Morrissey
- 18. Town of Southeast: Tony Hay
- 19. Town of Yorktown: Michael Grace

3. PURPOSE

The EOHWC was established as a regional stormwater entity under Part IV.B of the MS4 Permit to administer, coordinate and implement the East of Hudson regional stormwater retrofit projects (SRPs) with funding made available by the NYCDEP, Westchester County, and Putnam County. Through the EOHWC, the member municipalities are collectively achieving compliance with their SRP requirements (a.k.a. "bubble compliance"), regardless of the physical location of each retrofit.

The Year 6 SRPs for each member municipality were identified by the EOHWC staff and a 5-Year Work Plan prepared for and provided by the East of Hudson Watershed Coalition.



Wetland System- L-CR-30



Wet ED Pond: VB-DI-32

The Year 6 work plan was submitted to and approved by the New York State Department of Environmental Conservation (NYSDEC). The SRPs are phosphorus reducing stormwater retrofit projects designed to attain the ten-year phosphorus removal requirement established by the NYSDEC. Construction contracts for those projects currently in design are expected to

be executed between calendar years 2018-2020, depending on several factors including design progress, municipal review and acceptance, and easement negotiations.

The individual municipalities began stormwater retrofit projects in Year 1, and continued as individual municipalities in Year 2. EOHWC began to manage, administer, and fund stormwater retrofit projects in Year 3; and continued this role through Year 6. At the start of 2017, the EOHWC began the next 5-year phase of the program which will continue into 2021.

4. STORMWATER RETROFIT PLAN SUMMARY

The **NYSDEC** has confirmed and approved the completion of projects 436.6 kg/yr phosphorus totaling of Table 1 provides an overall removal. summary of the EOHWC Stormwater Retrofit Program. The Actual Phosphorus Reduction for Years 1 and 2 is based on documentation provided by the individual municipalities to EOHWC, and submitted to the NYSDEC by EOHWC, for SRPs completed by each member



Pocket Pond: Y-MU-10

municipality prior to the formation of the EOHWC. The Year 1 and 2 submittals has been updated as Year 2 projects are completed by the member municipality and/or EOHWC. The Year 2 Phosphorus Reduction value is calculated from Year 2 SRPs that had been started by a member municipality, and were either completed by the member municipality or transferred to EOHWC to complete design and construction. For the Year 2 SRPs completed by the member municipalities, certification documents have been obtained from the member municipality and submitted to the NYSDEC. All projects which were actively worked on by the EOHWC during the Calendar Year of 2017 can be found within this section.

Table 1: Stormwater Retrofit Program Summary

	Five Year	Actua	l Dhosnho	rue Pod	uction (ka /vr\	Estir	nated P	hospho	rus Red	Estimated Totals (kg/yr) (1)				
	Phosphorus	Actua	Actual Phosphorus Reduction (kg/yr)						(kg/yı	·)			Remaining		
MS4	Reduction Requirement (kg/yr)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 2 (1)	Year 3 (1)	Year 4 (1)	Year 5 (1)	Year 6 (1)	Total Reduction	Reduction Requirement		
Bedford	64.4	9.11	7.29	5.34	3.65	11.29	-	-	-	-	1.04	37.7	26.7		
Brewster	18.4	-	-	83.60	-	-	-	-	-	-	-	83.6	0.0		
Carmel	144.0	3.68	7.52	14.44	3.00	-	-	-	-	-	4.22	32.9	111.1		
Cortlandt	23.2	-	-	3.20	-	-	-	-	-	-	-	3.2	20.0		
Kent	67.2	9.56	4.67	14.50	13.74	-	-	-	-	-	32.79	75.3	0.0		
Lewisboro	71.0	4.03	-	-	22.90	3.60	-	-	-	-	-	30.5	40.5		
Mount Kisco	37.4	0.81	-	-	10.85	-	-	-	8.50	-	15.21	35.4	2.0 12.1		
New Castle	50.2	-	-	-	-	-	-	-	-	14.11	24.00	38.1			
North Castle	2.0	-	-	-	-	-	ı	-	-	-	-	0.0	2.0		
North Salem	38.2	-	7.12	-	9.80	10.91	-	5.80	-	-	22.19	55.8	0.0		
Patterson	34.4	3.31	1.62	10.36	-	4.38	1	-	-	-	46.03	65.7	0.0		
Pound Ridge	19.0	-	-	-	-	-	-	-	-	-	-	0.0	19.0		
Putnam Valley	2.0	-	7.90	-	-	-	-	-	-	-	-	7.9	0.0		
Town of Pawling	7.0	-	1.75	-	-	5.31	-	-	-	-	-	7.1	0.0		
Village of Pawling	8.6	-	0.03	-	-	-	-	-	-	-	-	0.0	8.6		
Somers	100.0	10.41	1.45	15.97	24.20	2.93	-	-	-	-	-	55.0	45.0		
Southeast	62.2	8.83	7.57	21.33	-	-	68.90	-	-	-	32.78	139.4	0.0		
Yorktown	108.0	0.07	-	19.84	-	-	-	-	-	-	13.21	33.1	74.9		
Putnam County	61.8	1.86	-	20.38	-	-	-	-	5.45	-	1.00	28.7	33.1		
Total	919.0	51.67	46.92	208.96	88.14	38.42	68.90	5.80	13.95	14.11	192.47	729.34	189.7		

Table Notes:

- (1) The above table reflects an accepted phosphorus reduction of 436.6 kg/yr.
- (2) Sources: "Stormwater Retrofit Program" by Putnam County MS4 Coordinating Committee, dated December 31, 2009; and "Regional Stormwater Implementation Plan", by CKWIC, August 2010.
- (3) Sources: "Summary of Completed Retrofit Projects: Project Years 1 & 2" and "Summary of Completed Retrofit Projects: Project Years 3 & 4" by EOHWC and dated 10/31/2014; email from Robert Capowski on 12/9 and 12/11/2014.
- (4) Estimated values are from information provided by engineering consultants providing professional services under EOHWC contracts; from some municipalities with NYSDEC grants for stormwater retrofit projects; and conceptual design from EOHWC. The actual phosphorus removal will be determined based on the submission of Record Documents stamped by a Professional Engineer to the NYSDEC.
- (5) Total Reduction value shown is expected to decrease as SRP evaluation and design progresses.

Table 2:
Summary of Completed Retrofit Projects: Project Years 1 & 2

Municipality	PJT YR	Project ID	Common Name	Retrofit	Phosphorus Removal (kg/yr)	Drainage Area (acres)	NYSDEC Acceptance Received Date
B-MU-23		B-MU-23	North Street	Pavers/Underdrain	0.91	6.7	7/23/2013
		B-MU-24	School Street	Pavers/Underdrain	1.52	11	7/23/2013
	1 (2010)	B-MU-25	Guard Hill Rd	Channel Stabilization	4.64	67.5	7/23/2013
		B-NCR-27	South Beach Rd	Channel Stabilization	0.97	12.9	7/23/2013
Bedford		B-MU-28	High St/Ridge St	Channel Stabilization	0.57	5.7	7/23/2013
		B-CR-29	Mount Holly Road	Channel Stabilization	0.50	8.8	7/23/2013
		B-MU-21	Beaver Dam Road	New Forebay, HDS, and Infiltration	4.90	19.1	12/12/2014
	2 (2011)	B-MU-22	Narrows	Hydrodynamic Separator and Infiltration	1.16	11.31	12/12/2014
		B-MU-30	South Church Street	Infiltration Trench	1.23	6.89	11/16/2012
		Carmel-AM-129	Hitchcock Hill Rd	Hydrodynamic Separator	0.23	42	7/23/2013
		Carmel-PRE-02	Lakeview Court	Outfall Stabilization	0.26	3	7/23/2013
	. (00.10)	Carmel-PRE-03	Silvergate Road	Outfall Stabilization	0.95	11	7/23/2013
	1 (2010)	Carmel-PRE-04	Red Mills Road	Outfall Stabilization	0.77	9	7/23/2013
Carmel		Carmel-PRE-06	Belden Road	Linear Channel Stabilization	1.09	3	7/23/2013
	Carmel-PRE-07 2 (2011) Carmel-CF-119 Carmel-CF-123		Colier Drive	Linear Channel Stabilization	0.38	1.9	7/23/2013
			Kelly Ridge & St. Michael's Terrace	Channel Stabilization	7.10	40	12/12/2014
			Garret Place	Outfall Channel Stabilzation	0.42	3.1	11/16/2012
		Kent-Pre-03	Barrett Hill/Route 52	Hydrodynamic Separator	4.31	138.8	7/23/2013
		Kent-Pre-06A	202 Boyds Corner Rd.	Deep Sump CB/Level Spreader	0.31	17.9	4/17/2012
		Kent-Pre-06B	236 Boyds Corner Rd.	Deep Sump CB/Level Spreader	1.33	49.4	4/17/2012
	1 (2010)	Kent-Pre-06C	322 Boyds Corner Rd.	Deep Sump CB/Level Spreader	0.93	30.6	4/17/2012
Kent		Kent-Pre-06D	326 Boyds Corner Rd.	Deep Sump CB/Level Spreader	0.24	8.8	4/17/2012
		Kent-Pre-06E	Farmers Mills Rd.	Channel Stabilization	0.80	6	4/17/2012
		Kent-Pre-06F	Meadow Brook Ct.	Deep Sump Catch Basins	1.64	19.8	4/17/2012
	2 (2011)	Kent-MB-NLC	North Lake Carmel SW Improvements	Multiple Retrofits	4.67	92.3	11/16/2012
		L-CR-15	Twin Lakes Rd Drainage Improvements	Plunge Pool	0.09	0.7	7/23/2013
Lewisboro	1 (2010)	L-CR-21	Lake Kitchawan Stream	HDS (Vortech Unit)	0.66	13.9	7/23/2013
		L-CR-26	Truesdale Lake Drive	HDS/Forebay	3.28	34.71	7/23/2013
		MK-NC-31		Subsurface Infiltration	0.12	0	7/23/2013
		MK-NC-15		Road Stabilization	0.21	1	7/23/2013
		MK-NC-18		Road Stabilization	0.11	0.05	7/23/2013
Mount Kisco	1 (2010)	MK-NC-19		Rooftop Disconnect	0.05	0.2	7/23/2013
		MK-NC-23		Road Stabilization	0.09	0.4	7/23/2013
		MK-NC-24		Road Stabilization	0.11	0.2	7/23/2013
		MK-NC-32		Road Stabilization	0.12	0.23	7/23/2013
North Salem	2 (2011)	NS-MU-08/09	Sunset Dr and Westview Cross Rd	Channel Stabilzation/Infiltration	7.12	26.1	12/11/2014

Cont. on page 8

		PAT-PRE-02	T&T Associates	Install Grass Swale	0.05	0.5	3/2/2011
		PAT-PRE-03	Brewster Plastics	Install Detention Pond	0.54	5.9	3/2/2011
		PAT-PRE-04	White Birch Realty	Install Sand Filter	0.30	0.7	3/2/2011
		PAT-PRE-05	Old Road Highway Improvement	Install Grass Swale	0.26	2.2	3/2/2011
		PAT-PRE-06a	Putnam Lake Retrofit Project - Site 1	Install Detention Pond	0.01	2.5	3/2/2011
		PAT-PRE-06b	Putnam Lake Retrofit Project - Site 2a	Install Detention Pond	0.04	63	3/2/2011
		PAT-PRE-06c	Putnam Lake Retrofit Project - Site 2b	Hydrodynamic Separator	0.29	5.5	3/2/2011
	1 (2010)	PAT-PRE-06d	Putnam Lake Retrofit Project - Site 3a	Hydrodynamic Separator	0.48	9	3/2/2011
Patterson		PAT-PRE-06e	Putnam Lake Retrofit Project - Site 3b	Hydrodynamic Separator	0.27	5	3/2/2011
		PAT-PRE-06f	Putnam Lake Retrofit Project - Site 3c	Hydrodynamic Separator	0.11	2	3/2/2011
		PAT-PRE-06g	Putnam Lake Retrofit Project - Site 3d	Hydrodynamic Separator	0.48	9	3/2/2011
		PAT-PRE-06h	Putnam Lake Retrofit Project - Site 5	Detention Pond	0.18	12	3/2/2011
		PAT-PRE-06i	Putnam Lake Retrofit Project - Site 6	Hydrodynamic Separator	0.10	4	3/2/2011
		PAT-PRE-06j	Putnam Lake Retrofit Project - Site 7	Hydrodynamic Separator	0.09	1.7	3/2/2011
		Pat-EB-09-	Old Rt 22	Grass Swales	1.39	0	3/2/2011
	2 (2011)	04a/04b/04c					
		Patterson-PA-10	Patterson Town Hall	Infiltration Outfall Protection, New Pipe, Channel	0.23	0.5	3/2/2011
Powling (Taura)	2 (2044)	PW-120	138 South Harmony Rd	Stabilization Outfall Protection, Ditch Stabilization,	0.13	6.5	7/23/2013
Pawling (Town)	2 (2011)	PW-82	39 Sans Souci Dr	Sediment Removal Ditch Stabilzation, Sediment/Debris	1.14	13.08	7/23/2013
		PW-83	47 Sans Souci Dr	Removal	0.48	2.44	7/23/2013
Pawling (Village)	2 (2011)	VPW-3		Channel Stabilization	0.02	1.26	7/23/2013
		VPW-4		Channel Stabilization	0.01	11.01	7/23/2013
Putnam County 1 (2010)		PC-4	North Brewster Rd	Road Resurfacing	1.50	4	4/17/2012
		PC-6	Teakettle Spout Lake	Pervious Pavement	0.34	0.5	4/17/2012
		PC-9	Veterans Memorial Park	Sand Filter	0.02	0.1	4/17/2012
Putnam Valley	2 (2011)	PutVal-PA-02	Greenway Terrace	Detention Pond/Stormfilter	7.90	41.9	6/8/2016
		S-MU-12	Plumbrook Pond Ditch Stabilization	Repair Eroded Drainage Ditch	1.12	41.2	7/23/2013
		S-MU-13	Plumbrook Pond Ditch Stabilization-2 Somers School District Ditch	Repair Eroded Drainage Ditch	3.09	31.8	7/23/2013
		S-MU-27a	Stabilization	Stabilization	1.25	27	7/23/2013
Somers	1 (2010)	S-MU-27b		Stabilization	0.36	27	7/23/2013
		S-MU-29	Plum Brook Rd Retrofit Moseman Ave Water Quality	Stabilization	3.33	25.5	7/23/2013
		S-NC-31	Improvement	Micropool Extended Detention	0.81	8.5	7/23/2013
		S-MU-32	Erosion Control Near Muscoot River	Stabilization	0.45	7.2	7/23/2013
	2 (2011)	S-MU-30	Jan Ridge Road Brook Stabilization	Channel Stabilization	1.45	22.6	11/16/2012
		SE-PRE-01	Lower Mine Road	Plunge Pool	0.19	14.4	4/17/2012
		SE-PRE-02	Seven Oaks Lane	Check Dams/Plunge Pool	1.51	11.7	4/17/2012
		SE-PRE-03	Maple Road	Road Stabilization/Deep Sump	1.03	24.1	4/17/2012
		SE-PRE-04	Joe's Hill Road	Plunge Pool/Level Spreader	0.01	1	4/17/2012
	1 (2010)	SE-PRE-05	Nichols Rd	Swale Stabilization	0.34	13.6	4/17/2012
		SE-PRE-07	Starlea Road	Plunge Pool/Deep Sump	0.44	17.1	4/17/2012
		SE-PRE-08	Ives Farm	Plunge Pool	0.78	9.1	4/17/2012
Southeast		SE-PRE-09	Panorama	Check Dams/Plunge Pool	0.51	5.9	4/17/2012
		SE-PRE-10	Carlson Lake	Deep Sump/Plunge pool	1.20	14.7	4/17/2012
		SE-PRE-11	Shore Drive, Lake Tonetta	Infiltration/HDS	2.82	26.3	4/17/2012
		SE-POT-02	Brewster Heights	HDS, Channel Stabilization	67.60	58.9	TBD
		Southeast-EB-05	Rockledge Drive	Outfall Stabilization	0.81	12	5/22/2015
	2 (2011)	Southeast-PA-05	Brewster Hill	Linear Channel Stabilization	6.64	35	5/22/2015
		Southeast-PA-24	Lower Mine Road/Rt 22	Grass Swales	0.12	-	5/22/2015
		SE-DI-03	Lincoln Rd	Outfall Stabilization	1.30	10.3	TBD
Yorktown	1 (2010)	Y-MU-11D	Junior Lake Parking Lot		0.07	0.1	7/23/2013

Table 3:
Summary of Completed Retrofit Projects: Project Years 3 through 5

Bedeford								
Bedding		3 (2012)	B-MU-07	Bedford Hills Memorial Park	Extended Detention Pond (P-3)	5.34	30.80	12/9/2014
Security	Dadford	4 (2013)	B-MU-32	Babbitt Road	Channel Stabilization	3.65	18.30	12/11/2014
Brewster 3 (2012) Topics Block Page Subset Page	Bediora	E (204E)	B-MU-35	Broad Brook Rd	Subsurface Infiltration	8.10	24.32	6/8/2016
Brewster 3 (2012) Verilla Brook Retrofit Extended Detention Pond (P-3) 67.80 176.10 1211/2014		5 (2015)	B-MU-41	Succabone and Bisbee Rd	Subsurface Infiltration	3.19	16.10	11/8/2017
Neb-Di-32	B	0 (0040)	VB-DI-31	Tonetta Brook Retrofit	Extended Detention Pond (P-3)	15.80	28.50	12/11/2014
Carmel CF-1026 Carm	Brewster	Brewster 3 (2012)		Wells Brook Retrofit	Extended Detention Pond (P-3)	67.80	176.10	12/11/2014
Carmel CF-102A Guide Post Serrinary Channel Sabilization 4.00 2.31 5/22/2015			Carmel-AM-112	Austin Rd Elementary School	Wet Extended Detention Pond (P-3)	5.12	7.50	12/11/2014
Carmel CF-102B Oxide Post Seminary Channel Sabilization 4.00 2.31 5/2/2015		2 (2042)	Carmel-AM-116	Mahopac Middle School	Infiltration	2.60	2.71	12/11/2014
4 (2013) Carmal-AM-111A Fails Elementary School Subsurface Infiltration 3.00 2.10 12/28/2017	Carmel	3 (2012)	Carmel-CF-102A	Guide Post Seminary	Channel Stabilization	4.00	2.31	5/22/2015
Cortlandt			Carmel-CF-102B	Guide Post Seminary	Channel Stabilization	2.72	2.50	5/22/2015
Channel Sublitation		4 (2013)	Carmel-AM-111A	Falls Elementary School	Subsurface Infiltration	3.00	2.10	12/29/2017
	Cortlandt	3 (2012)	C-NC-01B	Quarry Acres Subdivision		3.20	16.58	11/2/2016
Kent MB-ADD-4 Ryan Park Psydrodynamic Separator 0.20 1.50 12/9/2014			Kent-MB-ADD-2	Lake Shore Dr & Cottage Rd	Wet Extended Detention Pond (P-3)	4.70	38.10	12/9/2014
Rent			Kent-MB-ADD-3	Lake Shore Dr & Valhalla Rd	Micropool Extended Detention Pond (P-1)	1.40	7.80	12/9/2014
Kent-MB-ADD-Ds Kent-MB-ADD-19 Ryan Park Sand Filter (F-1) and Eliminated Eroded 2.30 29.20 12/9/2014		2 (2012)	Kent-MB-ADD-4	Ryan Park	Hydrodynamic Separator	0.20	1.50	12/9/2014
Refir-Ms-Au_D-19 Nyan Park Channel 2.50 28.20 17.98.0014	Kent	3 (2012)	Kent-MB-ADD-5	Kent Recreation Building	Dry Swale (O-1)	1.40	4.50	12/9/2014
Rent-PA-31			Kent-MB-ADD-19	Ryan Park		2.30	29.20	12/9/2014
Lewisboro Lewi			Kent-PA-31	Putnam Stone & Mason Supply		4.50	3.40	11/21/2017
Lewisboro Lewi		4 (2013)	Kent-MB-311B	NYS Rt 311 & I-84	Channel Stabilization, P-1 Pond	13.74	36.40	11/8/2017
Lewisboro Lewisboro LeCR-11C John Jay Middle and High School Channel Stabilization 11.30 18.70 5/22/2015			L-CR-11A	John Jay Middle and High School	Micropool ED Pond	4.80	7.50	5/22/2015
L-CR-11C John Jay Middle and High School Channel Stabilization 11.30 18.70 5/22/2015		4 (2012)	L-CR-11B	John Jay Middle and High School	Wet ED Pond	2.20	3.40	5/22/2015
S (2015) L-CR-30 Mead St ED Shallow Wetland 3.60 24.60 6/8/2016	Lewisboro	4 (2013)	L-CR-11C	John Jay Middle and High School	Channel Stabilization	11.30	18.70	5/22/2015
MK-NC-20			L-CR-28	Schoolhouse Rd	Wet ED	4.59	103.90	11/8/2017
Mount Kisco MK-NC-21 MKMG Satellite Offices Pocket Wetland 2.66 3.54 11/21/2018		5 (2015)	L-CR-30	Mead St	ED Shallow Wetland	3.60	24.60	6/8/2016
New Castle Foundation New Castle Section New Castle N			MK-NC-20	CVS/South Bedford Road	Channel Stabilization	8.19	3.51	11/8/2017
New Castle 5 (2015) NewC-NCR-33A Burden Preserve Channel Stabilization 9.43 10.00 TBD North Salem 3 (2012) NS-MU-11 Route 22 & Route 116 Extended Detention Pond 5.80 43.00 TBD North Salem 4 (2013) NS-MU-05 North Salem Highway Garage Infiltration and micropool extended detention basin 9.80 22.20 12/11/2014 5 (2015) NS-EB-01 Peach Lake Stormfilter 10.91 104.48 11/8/2017 Pat-EB-09-01 Big Elm Rd Pocket Pond (P-5) 3.47 7.40 12/9/2014 Patterson-PA-11 Patterson-PA-11 Patterson-PA-11 Patterson-PA-11 Patterson-PA-15A Matthew Paterson Elementary School Surface Sand Filter 2.00 5.20 6/8/2016 PW-342A Pawling Fire District Pocket Pond 0.52 0.70 11/2/2016	Mount Kisco	4 (2013)	MK-NC-21	MKMG Satellite Offices	Pocket Wetland	2.66	3.54	11/21/2018
New Castle 5 (2015) New C-NCR-33B Burden Preserve Channel Stabilization 4.68 2.78 TBD			MK-NC-22	Leonard Park	Bioretention/Surface Sand Filter	8.50	30.42	TBD
NewC-NCR-33B Burden Preserve Channel Stabilization 4.68 2.78 TBD	New Castle	5 (2015)	NewC-NCR-33A	Burden Preserve	Channel Stabilization	9.43	10.00	TBD
North Salem 4 (2013) NS-MU-05 North Salem Highway Garage Infiltration and micropool extended detention basin 9.80 22.20 12/11/2014	New Oustic	0 (2010)	NewC-NCR-33B	Burden Preserve	Channel Stabilization	4.68	2.78	TBD
North Salem 4 (2013) NS-NIU-US North Salem Highway Garage detention basin 9.80 22.20 12/11/2014		3 (2012)	NS-MU-11	Route 22 & Route 116		5.80	43.00	TBD
Patterson Patterson Patterson-PA-15B Matthew Paterson Elementary School Putterson Patterson-PA-15B Matthew Paterson Elementary School Putterson-PA-15B Patterson-PA-15B Patterson-PA-15	North Salem	4 (2013)	NS-MU-05	North Salem Highway Garage		9.80	22.20	12/11/2014
Patterson Pat-MB-06 Fields Corner Rd Dry Swale (O-1) 0.78 4.00 12/9/2014		5 (2015)	NS-EB-01	Peach Lake	Stormfilter	10.91	104.48	11/8/2017
Patterson Patterson-PA-11 Patterson Highway Garage Two Pocket Ponds; Bioretention Basin 6.11 5.43 12/9/2014 5 (2015) Patterson-PA-15A Matthew Paterson Elementary School Surface Sand Filter 2.00 5.20 6/8/2016 Patterson-PA-15B Matthew Paterson Elementary School Dry Swale 2.38 4.80 6/8/2016 PW-342A Pawling Fire District Pocket Pond 0.52 0.70 11/2/2016			Pat-EB-09-01	Big Elm Rd	Pocket Pond (P-5)	3.47	7.40	12/9/2014
Patterson-PA-15A Matthew Paterson Elementary School Surface Sand Filter 2.00 5.20 6/8/2016		3 (2012)	Pat-MB-06	Fields Corner Rd	Dry Swale (O-1)	0.78	4.00	12/9/2014
Patterson-PA-15B Matthew Paterson Elementary School Dry Swale 2.38 4.80 6/8/2016	Patterson		Patterson-PA-11	Patterson Highway Garage	Two Pocket Ponds; Bioretention Basin	6.11	5.43	12/9/2014
Patterson-PA-15B Matthew Paterson Elementary School Dry Swale 2.38 4.80 6/8/2016 PW-342A Pawling Fire District Pocket Pond 0.52 0.70 11/2/2016		5 (2015)	Patterson-PA-15A	Matthew Paterson Elementary School	Surface Sand Filter	2.00	5.20	6/8/2016
		0 (2010)	Patterson-PA-15B	Matthew Paterson Elementary School	Dry Swale	2.38	4.80	6/8/2016
Pawling (Town) 5 (2015) PW-3428 Pawling Fire District Pocket Pond 1.44 11.54 11/2/2016			PW-342A	Pawling Fire District	Pocket Pond	0.52	0.70	11/2/2016
Taking (1887) To order on the state of the s	Pawling (Town)	5 (2015)	PW-342B	Pawling Fire District	Pocket Pond	1.44	11.54	11/2/2016
PW-343 Holmes Whaley Lake Civic Association Subsurface Infiltration 3.35 3.72 11/2/2016			PW-343	Holmes Whaley Lake Civic Association	Subsurface Infiltration	3.35	3.72	11/2/2016
3 (2012) PC-1 Putnam National Golf Course Subsurface Infiltration 4.40 2.70 12/11/2014		3 (2012)	PC-1	Putnam National Golf Course	Subsurface Infiltration	4.40	2.70	12/11/2014
Putnam County PC-1A Putnam National Golf Course Wet Extended Detention Pond (P-3) 15.98 63.60 5/22/2015	Putnam County	J (_UIL)	PC-1A	Putnam National Golf Course	Wet Extended Detention Pond (P-3)	15.98	63.60	5/22/2015
4 (2013) PC-5N, 5S PCDH&F Wet Extended Detention Pond 5.45 18.20 TBD		4 (2013)	PC-5N, 5S	PCDH&F	Wet Extended Detention Pond	5.45	18.20	TBD

		S-MU-01	Somers Town Hall	Permeable Pavement	1.29	0.66	12/11/2014
		S-MU-09A	Reis Park - Library Roof Disconnect	Hydrodynamic Separator and Infiltration	0.79	0.51	12/11/2014
		S-MU-09B	Reis Park - Maintenance Bldg and Parking Area	Hydrodynamic Separator and Infiltration	0.90	0.42	12/11/2014
	2 (2042)	S-MU-09C	Reis Park - Main Parking Lot and Tennis Court	Permeable Pavement	3.35	2.28	12/11/2014
S	3 (2012)	S-MU-09D	Reis Park - Main Driveway and Rear Parking	Bioretention	0.92	2.53	12/11/2014
Somers		S-MU-09E	Reis Park and Town Hall Porous Pavement	Middle Drive: UG Detention/Stormfilter; Upper Lot: Dry Swale	1.20	2.27	12/11/2014
		S-MU-09F	Reis Park - Athletic Fields	Bioretention	1.65	5.19	12/11/2014
		S-MU-16/17	Somers Town Highway Garage and Material Yard	16: Infiltration (I-2)/Bioretention (F-5); 17: Bioretention (F-5)	5.87	6.56	6/8/2016
	4 (2013)	S-MU-03	Boces	Channel Stabilization	24.20	13.26	5/22/2015
	5 (2015)	S-MU-33	Van Tassell Memorial Park	Infiltration Basin	2.93	1.20	11/21/2017
Southeast	3 (2012)	SE-POT-01	Lake Tonetta	Subsurface Gravel Wetland	14.40	57.50	12/11/2014
Southeast	3 (2012)	Southeast-PA-23	CV Star Intermediate School	Micropool Extended Detention Pond (P-1)	6.93	17.40	12/9/2014
		Y-MU-10	Railroad Ave Park	Pocket Pond (P-5)	4.32	6.10	11/2/2016
Yorktown	3 (2012)	Y-MU-14	Police Station and Court	Wet Extended Detention Pond (P-3)	9.42	24.30	11/2/2016
TOTATOWN	3 (2012)	Y-MU-17A	Sparkle Lake	HDS and Infiltration Trench	1.80	1.24	12/11/2014
		Y-MU-17B	Sparkle Lake	Stormfilter	4.30	14.60	12/11/2014

The following nomenclature is used in this Annual Report to describe project status:

- Cancelled: SRP was cancelled by EOHWC prior to or during design. Typical reasons for cancelling a SRP include: low phosphorus removal, located on private property, site constraints preventing proper design, permitting complexity, and/or cost.
- 2. **Postponed**: The SRP was submitted to and evaluated by EOHWC. Based on the current program parameters and progress, these projects will be evaluated for inclusion as part of Years 6-10.
- 3. **Complete**: SRP has been constructed however the project has not been completely removed from our tracking system. This occurs when a project still requires stabilizing or outstanding payments remain.
- 4. Closed: The SRP is no longer being tracked by EOHWC for project closeout.

EOHWC Project Summaries

B-MU-601 (Bedford Town Highway Garage – Year 6) – Located in the Town of Bedford, this retrofit includes the installation of a hydrodynamic separator. Construction is complete and is up for review for reimbursement.

B-MU-602 (Sunnyfield Farms – Year 6) – Located in the Town of Bedford on private property, this project included the proposed stabilization of existing eroded channels. The project has been cancelled due to lack of cooperation from the property owner.

B-MU-603 (Sunnyfield Farms – Year 6) – Located in the Town of Bedford on private property, this project included construction of a wet extended detention pond. The project has been cancelled due to lack of cooperation from the property owner.

B-MU-41 (Succabone and Bisbee Road – Year 5) – Located in the Town of Bedford, this retrofit project includes subsurface infiltration on public property on Mount Holly Road. Construction was completed in 2017 and this project has been approved for final and the NYSDEC.

credit by the NYSDEC.



Subsurface Infiltration at B-MU-41

Carmel-AM-111A (Mahopac Falls Elementary School – Year 4) – Located in the Town of Carmel, the proposed SRP includes construction of a new subsurface infiltration system to capture runoff associated with existing parking areas and roof runoff from the elementary school buildings. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC.

Carmel-CF-601 (Eleanor Drive – Year 6) – Located in the Town of Carmel, the proposed SRP includes the stabilization of an eroded channel on NYCDEP property. The project will be going out to design in early 2018. Construction is expected to occur in 2019.

Carmel-GL-615 (Willow Rd West – Year 6) – Located in the Town of Carmel, the proposed SRP includes the stabilization of an eroded channel on private property. The project has been cancelled by the property owner.

Carmel-GL-616 (Willow Rd East – Year 6) – Located in the Town of Carmel, the proposed SRP includes the stabilization of an eroded channel on private property. The project has been cancelled by the property owner.

Kent-MB-601 (Montrose Drive – Year 6) – Located in the Town of Kent, the proposed SRP includes the construction of a multiple pond system on Town property. The project is in the design phase and construction is expected to begin in 2019.

Kent-MB-602 (Haviland Rd - Year 6) - Located in the Town of Kent, the proposed SRP includes the construction of a pocket wetland and channel stabilization on Town

property. The project is in the design phase and construction is expected to begin in 2018.

Kent-MB-311B (State Route 311 and I-84 – Year 4) – Located in the Village of Kent, the proposed SRP had 3 major components; a new wet detention pond, channel stabilization, and pond enlargement. Drainage from an existing residential area has created an erosion channel which is to be repaired and runoff redirected to an engineered channel. The existing stormwater pond at the intersection of Route 311 and Interstate 84 was to be expanded to treat runoff from developed areas which currently bypass the existing pond. The portion of the project was cancelled/postponed due to funding constraints. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC.

Kent-PA-31 (Putnam Stone & Mason Supply – Year 3) – Located in the Town of Kent, the proposed retrofit originally included a Dry Swale (O-1). The project has been revised to a Pocket Pond. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC

L-CR-28 (Schoolhouse Road – Year 4) – Located on private property in the Town of Lewisboro, the project involved the construction of a Wet Extended Detention Pond. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC 2017.

MK-NC-601 (Village Hall – Year 6) – Located in the Village of Mt. Kisco, the proposed project includes the installation of catch basin inserts on Village property. The project is expected to be completed in mid-2018.

MK-NC-602 (Mt. Kisco Commons – Year 6) – Located in the Village of Mt. Kisco, the proposed project includes the installation of catch basin inserts on private property. The project is expected to be completed in mid-2018.

MK-NC-20 (CVS, South Bedford Road – Year 4) – Located in the Village of Mount Kisco, the proposed SRP is for channel stabilization on an existing drainage channel located on private property. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC.



MK-NC-20 Channel Stabilization Construction

MK-NC-21 (Mt. Kisco Medical Group Satellite Office – Year 4) – Located in the Village of Mount Kisco, the proposed SRP is a pocket wetland. The engineered wetland will replace an unclassified manmade wetland. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC.

MK-NC-22 (Leonard Park – Year 4) – Located in the Village of Mount Kisco, the proposed SRPs are one dry swale, six surface sand filters, and eight bioretention areas. This project is currently in the design phase with construction to begin in 2018.

NewC-NCR-601 (Sheather Rd – Year 6) – Located in the Town of New Castle, the proposed SRP is for the stabilization of a heavily eroded bank along the road on Town property. The project is currently being evaluated by the Town and EOHWC for further action.

NewC-NCR-33A (Burden Preserve – Year 5) – Located in the Town of New Castle, the proposed SRP includes channel stabilization on public property. This project is currently in design and construction expected to be completed in 2018.



NewC-NCR-33A Eroded Channel

NewC-NCR-33B (Burden Preserve – Year 5) – Located in the Town of New Castle, the proposed SRP includes channel stabilization on public property. This project is currently in design and construction expected to be completed in 2018.

NS-MU-11 (Hand Scrabble Road Park – Year 3) – Located in the Town of North Salem's Hand Scrabble Road Park, this retrofit includes the installation of a new Extended Detention Pond. This project is currently in construction and is expected to be completed in early 2018.

NS-MU-601 (Keeler Lane – Year 6) – Located in the Town of North Salem, the project involves the stabilization of a heavily eroded channel across multiple properties. The project is expected to go to design in 2018 and for construction to occur in 2019.

NS-MU-602 (Westview Ave – Year 6) – Located in the Town of North Salem, the project involves the stabilization of a heavily eroded channel across multiple properties. The project is being re-evaluated by EOHWC and the Town for efficiency and alternate SRPs.

Pat-EB-09-03B (Veteran's Memorial Park – Year 4) – Located in the Town of Patterson, the proposed SRP is an organic filter. Detailed design for this project has been completed and construction is anticipated to commence in 2018 by the Town of Patterson.

Pat-EB-601 (Valley Rd – Year 6) – Located in the Town of Patterson, the proposed SRP is for the installation of a multiple pond system on Town owned property. The project is currently being re-evaluated for expansion on to private property by the Town and design engineer. Construction is expected to occur in 2019.

- **Pat-EB-602 (Dayton Rd Year 6) –** Located in the Town of Patterson, the proposed SRP is for channel stabilization on Town property. The project is currently in the design phase and is expected to be constructed in 2018.
- **Pat-EB-603 (Lost Lake Year 6) –** Located in the Town of Patterson, the proposed SRP is for channel stabilization on private property. The project is currently in design and is expected to be constructed in 2018.
- **PR-CR-601 (Cross Rd Year 6)** Located in the Town of Pound Ridge, the proposed SRP is for the stabilization of eroded banks on private property. The project is undergoing further evaluation by the Town and EOHWC for construction in 2019.
- **S-MU-601 (Lakeview Drive Year 6)** Located in the Town of Somers, the proposed SRP is for channel stabilization on private property. The project has been cancelled due to withdrawal of support from the Town.
- **S-MU-33 (Van Tassell Memorial Park Year 5) –** Originally part of the Year 4 Plan postponed to Year 5, this SRP is located in the Town of Somers and includes construction of an infiltration basin. Construction was completed in 2017 and this project has been approved for final credit by the NYSDEC.
- **SE-DI-03 (Lincoln Road Year 2) –** Located in the Town of Southeast, this retrofit project was originally part of the Year 2 plan and includes the installation of Hydrodynamic Separator and channel stabilization. This project is under construction and expected to be completed in 2018.
- **SE-DI-601 (Brewster Hill Rd Year 6) –** Located in the Town of Southeast, the proposed retrofit is for the installation of a pocket pond system on NYCDEP property. The project is currently being re-evaluated for an alternate SRP.
- **SE-DI-602 (Route 22 Outfall Year 6)** Located in the Town of Southeast, the proposed retrofit is for the stabilization of an eroded channel and outfall on private property. The project is being reevaluated for an alternate SRP.
- **SE-POT-02** (Brewster Heights Year 2) Located in the Town of Southeast, this retrofit project was originally part of the Year 2 plan and includes the installation of Hydrodynamic Separator and channel stabilization on both Town and private property. This project is currently in the design phase and expected to begin construction in 2018.
- **Y-MU-601 (Front Street Year 6)** Located in the Town of Yorktown, the proposed SRP is for the installation of a designed wetland on Town property. The project is currently in the design phase and construction is expected to begin in 2019.

Y-MU-602 (Junior Lake – Year 6) – Located in the Town of Yorktown, the proposed SRP is for the installation of subsurface infiltration chambers on Town property. The project is currently in the design phase and construction is expected to occur in 2019.

5. FUNDING SOURCES AND FINANCIAL SUMMARY

The EOHWC funding has been and will be provided directly or indirectly by the New York City Department of Environmental Protection (NYCDEP). The legal structure of the EOHWC allows transfer of funds from the NYCDEP, Westchester County, and Putnam County to the EOHWC for implementing the SRPs. There are four primary funding sources for the design, permitting, and construction of SRPs:

- 1. NYCDEP from 2010 Water Supply Permit (WSP): \$15.5 million
- 2. NYCDEP from 2007 Filtration Avoidance Determination (FAD): \$4.5 million
- 3. Westchester County from 1997 Memorandum of Agreement (MOA): \$10 million
- 4. Putnam County from 1997 Memorandum of Agreement (MOA): \$8.2 million

The Westchester County MOA funds were transferred to the EOHWC on June 20, 2012. An initial transfer of \$250,000 of the Putnam County MOA funds to the EOHWC was completed in April 2012. A partial transfer (\$7,447,815.35) of the Putnam County MOA funds to the EOHWC was completed on June 15, 2012. The final transfer (\$75,981.11) of the Putnam County MOA funds was transferred to the EOHWC on October 22, 2012. The remainders of the Putnam County MOA funds were used by Putnam County to provide funding for Year 2 stormwater retrofit projects. The transfers were authorized by Intermunicipal Agreements between the County and the municipalities located in each County.

The NYCDEP Funding Agreement was registered on July 18, 2013. From the Funding Agreement, an initial disbursement of \$10,000,000 was transferred to EOHWC on September 23, 2013 from the Water Supply Permit (WSP) allocation. The FAD funding in the amount of \$4,500,000 was transferred to the EOHWC on March 21, 2014. The

remaining WSP funding in the amount of \$5,500,000 was transferred to the EOHWC on August 17, 2015.

The WSP and FAD funds are principal funds, bonded by the NYCDEP for capital expenditures. Thus, projects completed using these funds must, at minimum, have a 5-year life span, minimum total project cost of \$35,000, and have begun after January 1, 2011. The MOA funds are interest on funds previously provided by NYCDEP to Putnam and Westchester counties, and are only restricted to stormwater retrofit projects in the original County.

In addition, each municipality may seek grants from other sources (e.g. NYSDEC Water Quality Investment Program, Environmental Facilities Corporation, etc.). Grants for stormwater retrofits were awarded to the Town of Bedford, Town of Kent, Town of North Salem, Town of Somers, and Village of Pawling. NYSDEC grants include a match requirement by the recipient. EOHWC will reimburse the municipalities for the match component, if requested.

The following tables provide various data describing the EOHWC financial status. The Total Expenditures, based on the four primary expense categories, are shown in Tables 4A and 4B. The expense categories can be generally described as follows:

- General Administration: Expenses internal to EOHWC operations, including non-project expenses (salaries, benefits, travel, office equipment/supplies, computer hardware and software, advertising, utilities, insurance, rent, etc.).
- 2. **Project Administration**: Expenses internal to EOHWC operations for project expenses (e.g. reviewing design submittals, project designs, coordinating with consultants and/or contractors, project meetings, etc.).
- 3. **Design**: Fees paid by EOHWC to engineering consultants, in accordance with Professional Service Contracts, Task Orders, and/or Change Orders. This may also include reimbursement to municipalities for design fees paid by the municipality,

- and/or reimbursement to municipalities for the match component of a grant for the design of an acceptable SRP.
- 4. Construction: Fees paid by EOHWC to construction contractors, in accordance with an executed Agreement included within the Contract/ Bid Documents, and/or Change Orders. This may also include reimbursement to municipalities for construction costs paid by the municipality.

Table 4A: Total Expenditures (2017)

Expense Type	Amount					
General Administration	\$ 479,063 (21.5%)					
Project Administration	\$ 129,786 (5.8%)					
O&M	\$ 107,341 (4.8%)					
Design	\$ 166,231 (7.4%)					
Construction	\$ 1,350,955 (60.5%)					
TOTAL	\$ 2,233,376					

Table 4B: Total Expenditures (2012 thru 2017)

Expense Type	Amount					
General Administration	\$ 2,612,512 (8.9%)					
Project Administration	\$ 805,013 (2.7%)					
O&M	\$ 171,835 (0.6%)					
Design	\$ 4,493,983 (15.3%)					
Construction	\$ 21,230,324 (72.4%)					
TOTAL	\$ 29,313,667					

Table 5 includes a summary of the various source funds available to EOHWC for stormwater retrofit projects, and lists the total expenses against each source fund. Putnam County funds in the amount of \$4.7 million were used to fund WSP projects above the initial \$10 million received prior to 2015 and were replenished upon receipt of the additional \$5.5 million WSP funding in August, 2015.

Table 5: Fund Summary (2012-2017)

	<u> </u>		
	EOHWC Funds		
Source Fund	Received	Expenses	Remaining
Putnam County MOA	\$ 7,773,796	(\$ 4,220,814)	\$ 3,552,982
Westchester County MOA	\$ 10,000,000	(\$ 4,439,743)	\$ 5,560,257
DEP Funding Agreement (WSP)	\$ 15,500,000	(\$ 15,500,000)	\$ 0
DEP Funding Agreement (FAD)	\$ 4,500,000	(\$ 4,500,000)	\$ 0
Various Non-SRP	\$ 452,980	(\$ 452,980)	\$ 0
O&M Bubble Compliance	\$ 171,835	(\$ 171,835)	\$ 0
Interest Earnings	\$ 143,373	(\$ 6,702)	\$ 136,671
Adjust for Receivables/Payables		\$ 226,914	\$ 226,914
Totals	\$ 38,541,985	(\$ 29,065,160)	\$ 9,476,824

The target SRP efficiency, based on available funding of \$38.2 million and a phosphorus removal requirement of 459.5 kg, is approximately \$83,000/kg. Based on the project and financial data to date, the approximate average SRP efficiency for SRPs in progress, completed, and/or cancelled as part of the EOHWC program, is \$60,000/kg. The average SRP efficiency in 2014 was \$70,000/kg, showing a trend towards better project selection and design. The EOHWC will have a surplus of funding available and surpass the 459.6 kg/yr goal for projects as part of the Year 1-5 Work Plan. All phosphorus reductions past the 5-year goal will be applied to the future of the program.

As the Funding Agreement source funds were not available to EOHWC until September 2013, project and administration costs were charged against the Putnam and/or Westchester MOA source funds. Upon receipt of the disbursements from the Funding Agreement, funds previously spent from the Putnam and/or Westchester MOA source funds on eligible expenses were reclassified from the Funding Agreement to the Putnam and/or Westchester MOA source funds.

6. FUTURE WORK

6.1 Completion of the 10-Year Stormwater Retrofit Program

The EOHWC is advancing towards the completion of the first 5-Years of the Stormwater Retrofit Program. The projects from the first 5 years of the program are scheduled for completion by summer of 2019. Completion of all projects from the first 5-year work plan will amount to approximately 528 kg/yr of phosphorus removal from the NYCDEP Watershed.

The EOHWC has started work on Year 7 of the Stormwater Retrofit Program in the beginning of the year 2018. This Work Plan will provide the EOHWC with enough projects to reach our goal of 919.2 kg/yr at the completion of the program.

6.2 Program Requirements and Funding for Years 6-10

The East of Hudson Watershed Coalition is in negotiations with the NYCDEP for the receipt of an additional \$22 million which can be applied to a select group of projects within the program. All projects which are located within the Filtration Avoidance Determination (FAD) Basins are eligible for this funding, along with those basins hydrologically connected.

The Federal and State Grant programs will be researched and pursued annually to support any funding sources which the EOHW Coalition are able to secure.

6.3 Advancement of Engineering and Project Techniques

The EOHWC will continue to explore new techniques and products to further the advancement of the phosphorus reduction program with the NYCDEP and NYSDEC. In the 2015 calendar year, a new method for channel stabilization was identified by staff, which has identified a more accurate rate of phosphorus loading on open channels. EOHWC will be utilizing approved proprietary practices such as catch basin inserts to advance the program efficiency, opening up new avenues for phosphorus reduction.



EAST OF HUDSON WATERSHED CORPORATION

Appendix A: ABO Budget



EAST OF HUDSON WATERSHED CORPORATION BUDGET AND FINANCIAL PLAN

WATER						Act	ua				Budget			Total Since
		2012		2013		2014		2015	2016	2017		2018		otion thru 2018
FINANCIAL SOURCES														
Interest	\$	23,555	\$	32,757	\$	15,730	\$	6,524	\$ 5,229	\$ 40,271	\$	50,000	\$	174,066
Putnam/Westchester Funds	:	17,773,796		-		-		-	-	-		-	\$ 1	7,773,796
Non-SRP Fund Reimbursement		-		70,000		-		122,620	-	-		-	\$	192,620
O&M Bubble Compliance		-		-		-		-	64,494	107,341		-	\$	171,835
NYC DEP		-	:	10,000,000		4,500,000		5,500,000	-	-		-	\$ 2	20,000,000
TOTAL FINANCIAL SOURCES	\$:	17,797,351	\$:	10,102,757	\$	4,515,730	\$	5,629,144	\$ 69,723	\$ 147,612	\$	50,000	\$ 3	88,312,318
<u>EXPENDITURES</u>														
Compensation (Salaries plus He	alth	Insurance a	and	PR Tax expe	ens	e)								
Exec Dir/Dir of Engineering			\$	73,481		91,709		104,885	133,482	133,746		141,034	\$	678,338
Project Engineer						-		64,594	115,904	61,926		-		242,425
Comptroller						30,686		98,712	90,909	92,770		104,091		417,168
Accounts Payable Coordinator						3,648		18,334	28,121	28,020		28,580		106,704
Records Management Coordinat	or					3,648		22,578	37,353	36,767		37,501		137,848
Office Manager				18,396		60,000		28,620	-	-		-		107,016
In-house Attorney						67,457		-	-	-		-		67,457
Executive Director		105,907		166,043		118,000		-	-	-		-		389,950
Prior (other staff)		50,260		71,463		-		-	-	-				121,723
Total Compensation	\$	156,167	\$	329,383	\$	375,148	\$	337,723	\$ 405,771	\$ 353,229	\$	311,206	\$	2,268,627
Project costs	\$	1,747,238	\$:	10,341,709	\$	7,714,170	\$	2,582,642	\$ 2,122,912	\$ 1,671,886	\$3	3,796,889	\$ 2	9,977,446
Other Expenditures	\$	147,017	\$	164,114	\$	224,732	\$	223,538	\$ 188,596	\$ 208,261	\$	207,614	\$	1,363,872
TOTAL EXPENDITURES	\$	2,050,422	\$:	10,835,206	\$	8,314,050	\$	3,143,903	\$ 2,717,279	\$ 2,233,376	\$ 4	4,315,709	\$ 3	3,609,945
Cumulative excess (deficiency) of														
financial sources over expenditures													\$	4,702,372

⁽¹⁾ Other expenditures include Legal/Audit, Rent and Insurance.

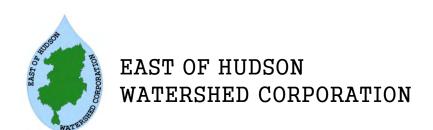
⁽²⁾ Cumulative excess is County funds (WQIP) since WSP and FAD funds have been committed and/or spent in full.



EAST OF HUDSON WATERSHED CORPORATION

Appendix B: EOHWC Project Data Sheets for Year 6

As submitted January 5, 2018 to the NYSDEC



Agreements:

Municipal Reimbursement Complete? N/A

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349

Private Installation Complete? N/A

Fax: 845-319-6391

Print Date: January 5, 2018

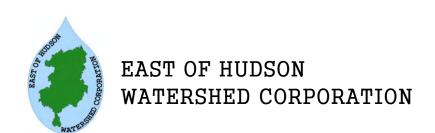
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 5 (2014) Project Summary - Interim

Project ID:	B-MU-41		Project Status:	Complete			
Common Name:	Succabone	e and Bisbee Rd					
Watershed:	Muscoot						
Site Owner:	Town of Be	edford	Design Engineer:	Hudson Engineering			
Site Address:	103 Succa	bone Rd					
County:	Westchest	er	60% Submission Date:				
Municipality:	Bedford		100% Submission Date:	6/28/2016			
Supervisor:	Chris Burd	ick	Record Document Rec'd Date:	11/8/2017			
Original Proposed Retrofit:	Subsurface	e Infiltration	Field Recon Date:	3/21/2014			
Revised Retrofit:	Subsurface	e Infiltration	Associated Permits:	None			
Original P Removal:	2.90	kg/yr	Proposed Drainage Area:	16.10 acres			
Revised P Removal:	3.19	kg/yr					
Final P Removal Credit by NYSDEC:	3.19	kg/yr					
Construction Start date: Construction Completion date:		10/7/2016 5/4/2017					



Municipal Reimbursement Complete? No

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Private Installation Complete? NA

Print Date: January 5, 2018

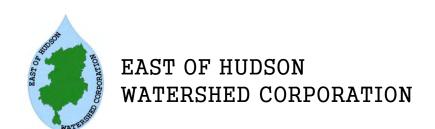
Prepared by: Kevin Fitzpatrick, PE

Checked by:

No

EOHWC Year 6(2017) Project Summary - Interim

	`							
Project ID:	B-MU-601		Project Status:	Construction	n			
Common Name:	Bedford To	own Highway Garage						
Watershed:	Muscoot							
Site Owner:	Town of B	edford	Design Engineer:	Hahn Engineering				
Site Address:	301 Adam	s Street						
County:	Westchest	ter	60% Submission Date:					
Municipality:	Bedford		100% Submission Date:					
Supervisor:	Chris Burd	lick	Record Document Rec'd Date: TBD					
Original Proposed Retrofit:	HDS/Subs	surface Infiltration	Field Recon Date:					
Revised Retrofit:			Associated Permits:	None				
Original P Removal:	0.90	kg/yr	Proposed Drainage Area:	NA	acres			
Revised P Removal:	1.04	kg/yr						
Final P Removal Credit by NYSDEC:	TBD	kg/yr						
Construction Start da Construction Comple		BY TOWN BY TOWN						
Agraamanta								
Agreements:								



Municipal Reimbursement Complete?

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Print Date: January 5, 2018

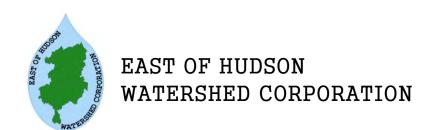
Prepared by: Kevin Fitzpatrick, PE

Private Installation Complete?

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

Project ID:	B-MU-602	2	Project Status:	Cancelled	
Common Name:	Sunnyfield F	arms Channel Stabilization			
Watershed:	Muscoot				
Site Owner:	Sunnyfilel	d Farms Inc.	Design Engineer:	Lawerence Pa	ggi Engineering
Site Address:	787 S Bed	ford Rd (Mult. Owners)			
County:	Westches	ter	60% Submission Date:		
Municipality:	Bedford		100% Submission Date:		
Supervisor:	Chris Burdick		Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	Channel Stabilization		Field Recon Date:	8/12/2016	
Revised Retrofit:	Channal Stabilization with Forebay		Associated Permits:	None	
Original P Removal:	18.54	kg/yr	Proposed Drainage Area:	116.00	acres
Revised P Removal:	31.44	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start date:		TBD			
Construction Comple	tion date:	TBD			
Agreements:					



2 NYS Route 164 Patterson, NY 12563

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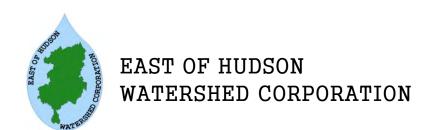
Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

<u> </u>	<u> </u>	<u> </u>	ot Gairmary	1111011111		
Project ID:	B-MU-603	3		Project Status:	Cancelled	
Common Name:	Sunnyfield	l Farms	Pond			
Watershed:	Muscoot					
Site Owner:	Sunnyfield	l Farm,	Inc	Design Engineer:	Lawerence Pa	aggi Engineering
Site Address:	787 S Bed	lford Ro	k			
County:	Westchest	ter		60% Submission Date:		
Municipality:	Bedford			100% Submission Date:		
Supervisor:	Chris Burd	lick		Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	Wet ED Po	ond		Field Recon Date:	8/12/2016	
Revised Retrofit:	Wet ED Po	ond		Associated Permits:	None	
Original P Removal:	10.87	kg/yr		Proposed Drainage Area:	90.10	acres
Revised P Removal:	15.96	kg/yr				
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date: TBD Construction Completion date: TBD						
Agreements:						
Municipal Reimbursement Complete?			Municipal Installation Complete?		Private Installation Complete?	



Municipal Reimbursement Complete? N/A

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349

Private Installation Complete? Yes

Fax: 845-319-6391

Print Date: January 5, 2018

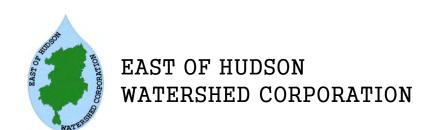
Prepared by: Kevin Fitzpatrick, PE

Checked by:

No

EOHWC Year 4 (2013) Project Summary - Interim

Project ID:	Carmel-Al	M-111A	Project Status:	Complete	
Common Name:	Falls Elem	entary School			
Watershed:	Amawalk				
Site Owner:	Mahopac (Central School District	Design Engineer:	Lawrence J. Paggi	
Site Address:	90-100 Myr	tle Ave., Mahopac, NY			
County:	Putnam		60% Submission Date:		
Municipality:	Carmel		100% Submission Date:	7/1/2014	
Supervisor:	Kenneth Schmitt		Record Document Rec'd Date:	12/29/2017	
Original Proposed Retrofit:	Subsurface Sand Filter		Field Recon Date:	1/26/2010	
Revised Retrofit:	Subsurface Infiltration		Associated Permits:	None	
Original P Removal:	3.75	kg/yr	Proposed Drainage Area:	2.10	acres
Revised P Removal:	3.00	kg/yr			
Final P Removal Credit by NYSDEC:	3.00	kg/yr			
Construction Start date:		6/27/2018			
Construction Comple	uon date.	8/24/2017			
Agreements:					



2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

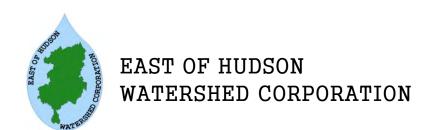
Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

EURWC Year	0(2017)	Project Summary	- mterim			
Project ID:	Carmel-CF	⁻ -601	Project Status:	Concept		
Common Name:	Eleanor Dr	ive				
Watershed:	Croton Fall	S				
Site Owner:	Multiple ow	ners	Design Engineer:			
Site Address:	22 Eleanor	Drive (Mult. Owners)				
County:	Putnam		60% Submission Date:			
Municipality:	Carmel		100% Submission Date:			
Supervisor:	Kenneth So	chmitt	Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Channel Stabilization		Field Recon Date:	11/30/2016		
Revised Retrofit:			Associated Permits:	NYCDEP LU	JP	
Original P Removal:	4.22		Proposed Drainage Area:	N/A	acres	
Revised P Removal:	N/A					
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date: Construction Completion date:		TBD TBD				
Agreements: Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No						
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Municipal Reimbursement Complete?

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349

Fax: 845-319-6391

Print Date: January 5, 2018

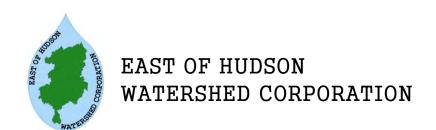
Prepared by: Kevin Fitzpatrick, PE

Private Installation Complete?

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

= 0 11111 0 1 0 0 1	<u> </u>				
Project ID:	Carmel-G	L-615	Project Status:	Cancelled	
Common Name:	Willow Rd				
Watershed:	Lake Gler	neida			
Site Owner:	Gary Austin	<pre><garyaustin1@yahoo.com></garyaustin1@yahoo.com></pre>	Design Engineer:	Lawerence P	aggi Engineering
Site Address:	6 Willow F	Rd			
County:	Putnam		60% Submission Date:		
Municipality:	Carmel		100% Submission Date:		
Supervisor:	Kenneth S	Schmitt	Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	Channel Stabilization		Field Recon Date:		
Revised Retrofit:	Channel Stabilization		Associated Permits:	None	
Original P Removal:	17.50	kg/yr	Proposed Drainage Area:	17.00	acres
Revised P Removal:	17.54	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start date: Construction Completion date:		TBD TBD			
Agreementer					
Agreements:					



2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

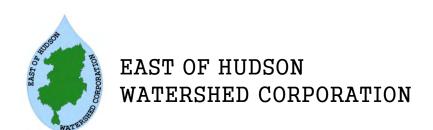
Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

<u> </u>	O(ZOTT)	roject Summary	- IIICHIIII		
Project ID:	Carmel-Gl	616	Project Status:	Cancelled	
Common Name:	Willow Rd	East			
Watershed:	Lake Glene	eida			
Site Owner:	Gary Austin <	garyaustin1@yahoo.com>	Design Engineer:		
Site Address:	6 Willow R	d			
County:	Putnam		60% Submission Date:		
Municipality:	Carmel		100% Submission Date:		
Supervisor:	Kenneth S	chmitt	Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	Channel S	tabilization	Field Recon Date:		
Revised Retrofit:	Channel S	tabilization	Associated Permits:	None	
Original P Removal:	5.80		Proposed Drainage Area:	N/A	acres
Revised P Removal:	N/A				
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start date: TBD Construction Completion date: TBD					
Agreements: Municipal Reimbursement Complete? Municipal Installation Complete? Private Installation Complete?					Complete?



Agreements:

Municipal Reimbursement Complete? N/A

2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Private Installation Complete? Yes

Print Date: January 5, 2018

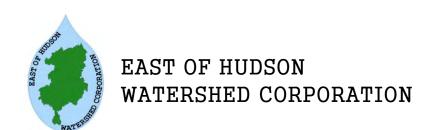
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 4 (2013) Project Summary - Interim

Project ID:	Kent-MB	-311B	Project Status:	Closed	
Common Name:	NYS Rt 3	311 & I-84			
Watershed:	Middle B	ranch			
Site Owner:	Pattersor	Crossing Realty	Design Engineer:	Insite Engineering	
Site Address:	Route 31	1 & I-84, Kent, NY			
County:	Putnam		60% Submission Date:	6/5/2014	
Municipality:	Kent		100% Submission Date:	2/26/2016	
Supervisor:	Maureen Fleming		Record Document Rec'd Date:	7/17/2017	
Original Proposed Retrofit:	Channel Stabilization, P-1 Pond, P-2 Pond		Field Recon Date:	9/20/2012	
Revised Retrofit:	Channel Stabilization, P-1 Pond		Associated Permits:	None	
Original P Removal:	13.10	kg/yr	Proposed Drainage Area:	36.40	acres
Revised P Removal:	13.74	kg/yr			
Final P Removal Credit by NYSDEC:	13.74	kg/yr			
Construction Start date: Construction Completion date:		8/23/2016 12/2/2016			



2 NYS Route 164 Patterson, NY 12563 Tel: 845-319-6349

Fax: 845-319-6391

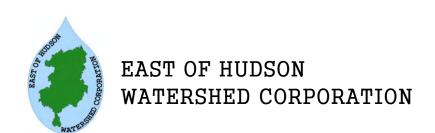
Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

EUNIVC Year	0(2017)	rioje	ct Summary	<u>- 1111C/11111</u>			
Project ID:	Kent-MB-6	601		Project Status:		Design	
Common Name:	Montrose I	Orive					
Watershed:	Middle Bra	nch					
Site Owner:	Town of Ke	ent		Design Engineer	·:	Lawerence Paggi Engineering	
Site Address:	640 NYS F	Rte 52					
County:	Putnam			60% Submission	Date:		
Municipality:	Kent			100% Submission	n Date:		
Supervisor:	Maureen F	leming	1	Record Document R	ec'd Date:	N/A	
Original Proposed Retrofit:	Multiple Po	ond		Field Recon Date	e:		
Revised Retrofit:	Multiple Po	onds		Associated Perm	nits:	None	
Original P Removal:	20.50	kg/yr		Proposed Draina	age Area:	TBD	acres
Revised P Removal:	25.56	kg/yr					
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: Construction Completion date:		TBD TBD					
	Agreements:						
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? N/A							



2 NYS Route 164

Patterson, NY 12563 Tel: 845-319-6349

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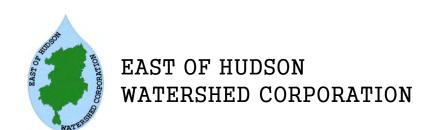
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EOHWC Year 3 (2012) Project Summary - Interim

Project ID:	Kent-PA-3	1	Project Status:	Closed		
Common Name:	Putnam St	one & Mason Supply				
Watershed:	Croton Fal	ls				
Site Owner:	Formerly Putna	am Stone and Mason Supply	Design Engineer:	Insite Engineering		
Site Address:	301 Rt 52					
County:	Putnam		60% Submission Date:			
Municipality:	Kent		100% Submission Date:	10/15/2016		
Supervisor:	Maureen Fleming		Record Document Rec'd Date:	10/31/2017		
Original Proposed Retrofit:	Dry Swale (O-1)		Field Recon Date:	12/14/2011		
Revised Retrofit:	Pocket Pond		Associated Permits:		struction GP ter Wetland Permit	
Original P Removal:	0.87	kg/yr	Proposed Drainage Area:	3.40	acres	
Revised P Removal:	4.50	kg/yr				
Final P Removal Credit by NYSDEC:	4.50	kg/yr				
Construction Start date: Construction Completion date:		5/15/2017 10/31/2017				

Agreements:

Municipal Reimbursement Complete? N/A Municipal Installation Complete? Yes Private Installation Complete? Yes



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Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

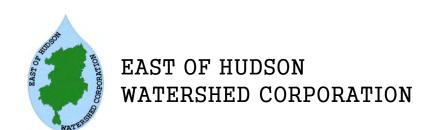
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EOHWC Year 4 (2013) Project Summary - Interim

	1 (=0.10)				
Project ID:	L-CR-28		Project Status:	Closed	
Common Name:	Schoolhou	ise Rd			
Watershed:	Cross Rive	er			
Site Owner:	Town of Le	ewisboro/Private	Design Engineer:	Insite Engine	eering
Site Address:	123 North Sa	alem Road, Lewisboro, NY			
County:	Westchest	ter	60% Submission Date:	4/22/2014	
Municipality:	Lewisboro		100% Submission Date:	8/15/2016	
Supervisor:	Peter Pars	sons	Record Document Rec'd Date:	9/5/2017	
Original Proposed Retrofit:	Pocket We	etland	Field Recon Date:		
Revised Retrofit:	Wet ED		Associated Permits:	CPDP Fresh Water	· Wetland
Original P Removal:	10.38	kg/yr	Proposed Drainage Area:	103.90	acres
Revised P Removal:	4.59	kg/yr			
Final P Removal Credit by NYSDEC:	4.59	kg/yr			
Construction Start da Construction Comple		4/17/2017 9/5/2017			

Agreements:

Municipal Reimbursement Complete? N/A Municipal Installation Complete? Yes Private Installation Complete? Yes



2 NYS Route 164 Patterson, NY 12563

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Private Installation Complete? Yes

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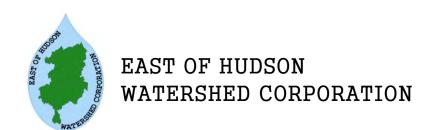
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 4 (2013) Project Summary - Interim

Project ID:	MK-NC-20)	Project Status:	Complete	
Common Name:	CVS/South	n Bedford Road			
Watershed:	New Croto	n			
Site Owner:	Gale Boker, P	atricia Boyle, Betty Roemer	Design Engineer:	Rennia Engin	eering Design
Site Address:	10 South E	Bedford Road			
County:	Westchest	er	60% Submission Date:	4/28/2014	
Municipality:	Mt. Kisco		100% Submission Date:	6/3/2016	
Supervisor:	J. Michael	Cindrich	Record Document Rec'd Date:	9/28/2017	
Original Proposed Retrofit:	Channel S	tabilization	Field Recon Date:	8/18/2009	
Revised Retrofit:	Channel S	tabilization	Associated Permits:	None	
Original P Removal:	4.23	kg/yr	Proposed Drainage Area:	3.51	acres
Revised P Removal:	8.19	kg/yr			
Final P Removal Credit by NYSDEC:	8.19	kg/yr			
Construction Start da		9/30/2016			
Construction Comple	uon date.	10/26/2016			
Agreements:					



Tel: 845-319-6349

Fax: 845-319-6391

Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

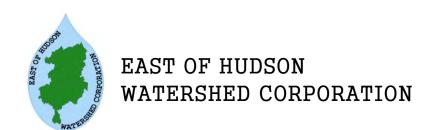
Checked by:

EOHWC Year 4 (2013) Project Summary - Interim

Project ID:	MK-NC-21		Project Status:	Complete	
Common Name:	MKMG Sat	tellite Offices			
Watershed:	New Croto	n			
Site Owner:	IPERS 345	Bedford Road Inc.	Design Engineer:	Rennia Engin	eering Design
Site Address:	34 So. Bedfo	ord Road, Mt. Kisco, NY			
County:	Westchest	er	60% Submission Date:	4/28/2014	
Municipality:	Mt. Kisco		100% Submission Date:	6/3/2016	
Supervisor:	J. Michael	Cindrich	Record Document Rec'd Date:	9/28/2017	
Original Proposed Retrofit:	Bioretentio	n	Field Recon Date:		
Revised Retrofit:	Pocket We	tland	Associated Permits:	Water Quali	ty
Original P Removal:	2.46	kg/yr	Proposed Drainage Area:	3.54	acres
Revised P Removal:	2.66	kg/yr			
Final P Removal Credit by NYSDEC:	2.66	kg/yr			
Construction Start dat Construction Complet		9/30/2016 4/24/2017			

Agreements:

Municipal Reimbursement Complete? N/A Municipal Installation Complete? Yes Private Installation Complete? Yes



2 NYS Route 164 Patterson, NY 12563

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Private Installation Complete? Yes

Print Date: January 5, 2018

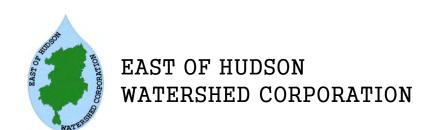
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 4 (2013) Project Summary - Interim

Project ID:	MK-NC-2	2	Project Status:	Construction	n
Common Name:	Leonard F	Park			
Watershed:	New Croto	on			
Site Owner:	Village of	Mt Kisco	Design Engineer:	Rennia Engir	neering Design
Site Address:	Leonard Park	Parking Area & Tennis Cts.			
County:	Westches	ter	60% Submission Date:	4/28/2014	
Municipality:	Mt. Kisco		100% Submission Date:	7/31/2015	
Supervisor:	J. Michael	Cindrich	Record Document Rec'd Date:	TBD	
Original Proposed Retrofit:	Bioretentio	on/Wet Pond	Field Recon Date:		
Revised Retrofit:	Bioretention Filter	on/Surface Sand	Associated Permits:	Stream Dist	urbance
Original P Removal:	4.80	kg/yr	Proposed Drainage Area:	30.42	acres
Revised P Removal:	8.50	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start da Construction Comple		TBD TBD			
Agreements:					



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Print Date: January 5, 2018

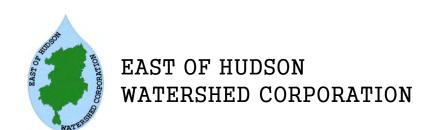
Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

Project ID:	MK-NC-	601		Project Status:	Concept					
Common Name:	Village F	łall								
Watershed:	New Cro	oton								
Site Owner:	Multiple	owners		Design Engineer:	BY TOWN					
Site Address:	104 Mai	n Street								
County:	Westche	ester		60% Submission Date:						
Municipality:	Mount K	isco		100% Submission Date:						
Supervisor:	J. Micha	el Cindric	n	Record Document Rec'd Date:	N/A					
Original Proposed Retrofit:	Sand Fil	ters		Field Recon Date:						
Revised Retrofit:	Catch B	asin Inser	ts	Associated Permits:	None					
Original P Removal:	4.41	kg/yr		Proposed Drainage Area:	4.26	acres				
Revised P Removal:	4.45	kg/yr								
Final P Removal Credit by NYSDEC:	TBD	kg/yr								
Construction Start date: TBD Construction Completion date: TBD										
Agreements:										
	nent Comple	Municipal Reimbursement Complete? No. Municipal Installation Complete? No. Private Installation Complete? N/A								

Municipal Reimbursement Complete? No Municipal Installation Complete? No Private Installation Complete? N/A



2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Private Installation Complete? No

Print Date: January 5, 2018

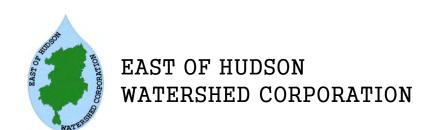
Prepared by: Kevin Fitzpatrick, PE

Checked by:

No

EOHWC Year 6(2017) Project Summary - Interim

<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
Project ID:	MK-NC-60	02	Project Status:	Concept	
Common Name:	Mt. Kisco	Commons			
Watershed:	New Croto	on			
Site Owner:	Urban Edg	ge Properties	Design Engineer:		
Site Address:	195 North	Bedford Rd			
County:	Westches	ter	60% Submission Date:		
Municipality:	Mount Kis	СО	100% Submission Date:		
Supervisor:	J. Michael	Cindrich	Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	StormBasi	in	Field Recon Date:		
Revised Retrofit:	Catch Bas	sin Inserts	Associated Permits:	None	
Original P Removal:	16.23	kg/yr	Proposed Drainage Area:	9.90	acres
Revised P Removal:	10.76	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start da Construction Comple		TBD TBD			
Agreements:					



2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Private Installation Complete? N/A

Print Date: January 5, 2018

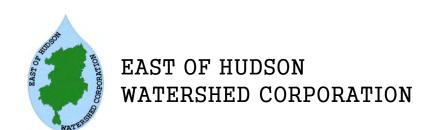
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 5 (2014) Project Summary - Interim

Project ID:	NewC-NC	CR-33A	Project Status:	Design	
Common Name:	Burden P	reserve			
Watershed:	New Crot	on			
Site Owner:	Town of N	New Castle	Design Engineer:	Municipal E	ngineer
Site Address:	Harriman	Rd/Sheather Rd			
County:	Westches	ster	60% Submission Date:		
Municipality:	New Cast	tle	100% Submission Date:	4.25.17	
Supervisor:	Robert G	reenstein	Record Document Rec'd Date:	TBD	
Original Proposed Retrofit:	Channel	Stabilization	Field Recon Date:		
Revised Retrofit:	Channel	Stabilization	Associated Permits:	Wetlands P E&SC Perm	
Original P Removal:	3.11	kg/yr	Proposed Drainage Area:	10.00	acres
Revised P Removal:	9.43	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start da Construction Comple		TBD TBD			
Agreemente					
Agreements:					



2 NYS Route 164 Patterson, NY 12563

Tel: 845-319-6349 Fax: 845-319-6391

Private Installation Complete? N/A

Print Date: January 5, 2018

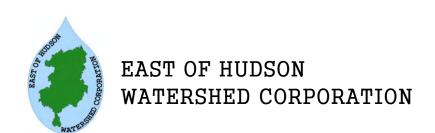
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 5 (2014) Project Summary - Interim

	0 (=0::/				
Project ID:	NewC-NC	R-33B	Project Status:	Design	
Common Name:	Burden Pr	eserve			
Watershed:	New Croto	on			
Site Owner:	Town of N	ew Castle	Design Engineer:	Municipal E	ingineer
Site Address:	Harriman I	Rd/Sheather Rd			
County:	Westchest	ter	60% Submission Date:		
Municipality:	New Castl	е	100% Submission Date:	4.25.17	
Supervisor:	Robert Gre	eenstein	Record Document Rec'd Date:	TBD	
Original Proposed Retrofit:	Channel S	Stabilization	Field Recon Date:		
Revised Retrofit:	Channel S	stabilization	Associated Permits:	Wetland Pe E&SC Pern	
Original P Removal:	3.11	kg/yr	Proposed Drainage Area:	2.78	acres
Revised P Removal:	4.68	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start da Construction Comple		TBD TBD			
Agroomonto					
Agreements:					



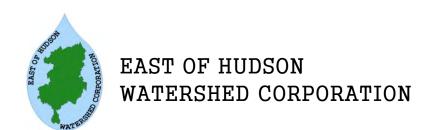
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<u> </u>	<u> </u>	i reject Cammary					
Project ID:	NewC-NC	R-601	Project Status:	Concept	_		
Common Name:	Sheather F	₹d					
Watershed:	New Croto	n					
Site Owner:	Town of N	ew Castle	Design Engineer:				
Site Address:	Burden Pro	eserve					
County:	Westchest	er	60% Submission Date:				
Municipality:	New Castle	е	100% Submission Date:				
Supervisor:	Robert Gre	eenstein	Record Document Rec'd Date:	N/A			
Original Proposed Retrofit:	Bank Stab	ilization	Field Recon Date:				
Revised Retrofit:			Associated Permits:	None			
Original P Removal:	24.00		Proposed Drainage Area:	N/A	acres		
Revised P Removal:	N/A						
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
	Construction Start date: TBD Construction Completion date: TBD						
Agreements:							
ıvıunıcıpai keimbursen	Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? N/A						



Agreements:

Municipal Reimbursement Complete? N/A

2 NYS Route 164

Patterson, NY 12563 Tel: 845-319-6349

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Private Installation Complete? No

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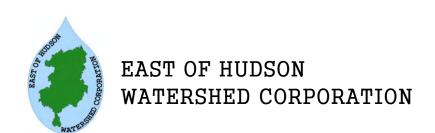
Prepared by: Kevin Fitzpatrick, PE

Checked by:

No

EOHWC Year 3 (2012) Project Summary - Interim

Project ID:	NS-MU-11		Project Status:	Construction
Common Name:	Route 22 8	& Route 116		
Watershed:	Muscoot			
Site Owner:	NYCDEP		Design Engineer:	O'Brien & Gere
Site Address:	Hardscrab	ble Rd & Titicus Rd		
County:	Westchest	er	60% Submission Date:	6/17/2013
Municipality:	North Sale	em	100% Submission Date:	7/1/2016
Supervisor:	Warren Lu	cas	Record Document Rec'd Date:	TBD
Original Proposed Retrofit:	Extended	Detention Pond	Field Recon Date:	8/12/2009
Revised Retrofit:	Extended	Detention Pond	Associated Permits:	Land Use Permit Perm 33
Original P Removal:	2.00	kg/yr	Proposed Drainage Area:	43.00 acres
Revised P Removal:	5.80	kg/yr		
Final P Removal Credit by NYSDEC:	TBD	kg/yr		
	Construction Start date: TBD Construction Completion date: TBD			



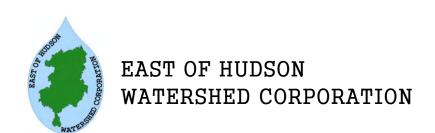
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	<u>0(2011)</u>	roject Sammary	- IIICIIIII				
Project ID:	NS-MU-60	1	Project Status:	Concept			
Common Name:	Keeler Lan	е					
Watershed:	Muscoot						
Site Owner:	Multiple ow	ners	Design Engineer:				
Site Address:	Multiple ad	dresses					
County:	Westchest	er	60% Submission Date:				
Municipality:	North Sale	m	100% Submission Date:				
Supervisor:	Warren Lu	cas	Record Document Rec'd Date:	N/A			
Original Proposed Retrofit:	Channel S	tabilization	Field Recon Date:				
Revised Retrofit:	Channel S	tabilization	Associated Permits:	None			
Original P Removal:	17.65		Proposed Drainage Area:	N/A	acres		
Revised P Removal:	N/A						
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: TBD Construction Completion date: TBD							
Agreements: Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No							



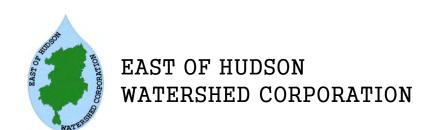
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<u> </u>	<u> </u>	rojoot Gaiiiiiai y					
Project ID:	NS-MU-60	2	Project Status:	Concept			
Common Name:	Westview A	Avenue					
Watershed:	Muscoot						
Site Owner:	Multiple ow	ners	Design Engineer:				
Site Address:	Multple add	dresses					
County:	Westcheste	er	60% Submission Date:				
Municipality:	North Sale	m	100% Submission Date:				
Supervisor:	Warren Luc	cas	Record Document Rec'd Date:	N/A			
Original Proposed Retrofit:	Channel St	abilization	Field Recon Date:				
Revised Retrofit:			Associated Permits:	None			
Original P Removal:	4.54		Proposed Drainage Area:	5.00	acres		
Revised P Removal:	N/A						
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: TBD Construction Completion date: TBD							
Agreements: Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No							



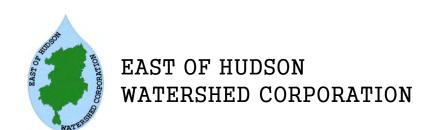
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	1 (=0:0)	rojoot Garrinary				
Project ID:	Pat-EB-09	-03B	Project Status:	Postponed		
Common Name:	Veterans M	lemorial Park				
Watershed:	East Branc	h				
Site Owner:	Town of Pa	atterson	Design Engineer:	Lawrence J. Paggi		
Site Address:	North Street	, Patterson, NY 12563				
County:	Putnam		60% Submission Date:	2/27/2014		
Municipality:	Patterson		100% Submission Date:	7/30/2015		
Supervisor:	Michael Gr	iffin	Record Document Rec'd Date:	TBD		
Original Proposed Retrofit:	Bioretention		Field Recon Date:			
Revised Retrofit:	Organic Filter (F-4)		Associated Permits: None			
Original P Removal:	1.51	kg/yr	Proposed Drainage Area:	9.40 acres		
Revised P Removal:	1.80	kg/yr				
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date: Construction Completion date:		TBD TBD				
Agreements: Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? N/A						



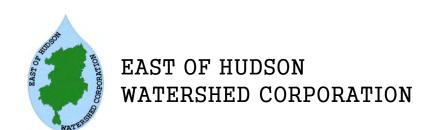
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LOTIVO TEAT	UZUTI)	<u> </u>	<u>ct Gairinnai y</u>	- IIICIIIII			
Project ID:	Pat-EB-60	1		Project Status:		Design	
Common Name:	Valley Rd						
Watershed:	East Brand	h					
Site Owner:	Multiple ov	vners		Design Engine	er:	KC Engineering	
Site Address:	Multiple ac	ldresse	s				
County:	Putnam			60% Submissio	n Date:		
Municipality:	Patterson			100% Submissi	ion Date:		
Supervisor:	Richard W	illiams		Record Document	Rec'd Date:	N/A	
Original Proposed Retrofit:	Multiple Po	onds		Field Recon Da	te:		
Revised Retrofit:	Multiple Po	onds		Associated Per	mits:	None	
Original P Removal:	19.80	kg/yr		Proposed Drain	age Area:	96.40	acres
Revised P Removal:	19.80	kg/yr					
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: Construction Completion date:		TBD TBD					
Agreements:							
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No							



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Private Installation Complete? No

Print Date: January 5, 2018

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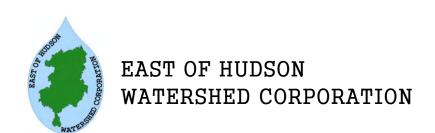
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No

EOHWC Year 6(2017) Project Summary - Interim

Municipal Reimbursement Complete? N/A Municipal Installation Complete?

<u> </u>	<u> </u>	i i oject camma, j				
Project ID:	Pat-EB-60)2	Project Status:	Design		
Common Name:	Dayton Ro	d				
Watershed:	East Bran	ch				
Site Owner:	Town of P	atterson	Design Engineer:	Lawerence Paggi Engineering		
Site Address:	Dayton Ro	d				
County:	Putnam		60% Submission Date:			
Municipality:	Patterson		100% Submission Date:			
Supervisor:	Richard W	/illiams	Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Channel Stabilization		Field Recon Date:			
Revised Retrofit:	Channel S	Stabilisation	Associated Permits:	None		
Original P Removal:	11.63	kg/yr	Proposed Drainage Area:	N/A	acres	
Revised P Removal:	11.63	kg/yr				
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date:		TBD				
Construction Comple	tion date:	TBD				
Agreements:						



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Print Date: January 5, 2018

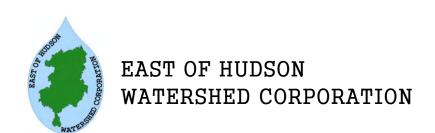
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Checked by:

EOHWC Year 6(2017) Project Summary - Interim

Project ID:	Pat-EB-		-	Project Status:	Design		
Common Name:	Lost Lak	e			J		
Watershed:	East Bra	nch					
Site Owner:	Lost Lak	e, Inc.		Design Engineer:	KC Engi	KC Engineering	
Site Address:							
County:	Putnam			60% Submission Date:			
Municipality:	Patterso	n		100% Submission Date:			
Supervisor:	Richard	Williams		Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Channel Stabilization		Field Recon Date:				
Revised Retrofit:	Channel	Channel Stabilization		Associated Permits:			
Original P Removal:	14.60			Proposed Drainage Area:	N/A	acres	
Revised P Removal:	N/A						
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: TBD Construction Completion date: TBD							
Agreements:							
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No							

Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No



Tel: 845-319-6349 Fax: 845-319-6391

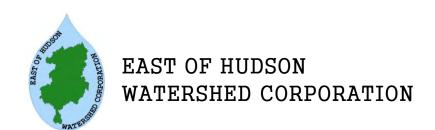
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	EOHWC Year 6(2017)	Project Summary	v - Interim
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<u> LOTTITO TCUI</u>	<u> 0(2011) </u>	Toject Gairina y	michin			
Project ID:	PR-CR-60	1	Project Status:	Concept		
Common Name:	Cross Rd					
Watershed:	Cross Rive	r				
Site Owner:			Design Engineer:			
Site Address:	Cross Rd a	and Route 121				
County:	Westcheste	er	60% Submission Date:			
Municipality:	Pound Ride	ge	100% Submission Date:			
Supervisor:	Richard Ly	man	Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Bank Stabi	lization	Field Recon Date:			
Revised Retrofit:			Associated Permits:	None		
Original P Removal:	21.30		Proposed Drainage Area:	N/A	acres	
Revised P Removal:	N/A					
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date: Construction Completion date:		TBD TBD				
Agreements:						
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No						



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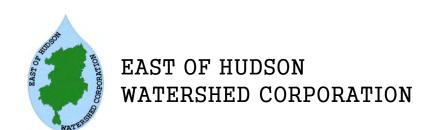
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EOHWC Year 2 (2011) Project Summary - Interim

Project ID:	SE-DI-03		Project Status:	Construction	
Common Name:	Lincoln Ro	t l			
Watershed:	Middle Bra	anch			
Site Owner:	Unknown		Design Engineer:	Municipal Engineer	
Site Address:	Lincoln Ro	d			
County:	Putnam		60% Submission Date:	By Town	
Municipality:	Southeast		100% Submission Date:	By Town	
Supervisor:	Tony Hay		Record Document Rec'd Date:	TBD	
Original Proposed Retrofit:	Hydrodynamic Separator and Outfall Stabilization		Field Recon Date:	10/4/2010	
Revised Retrofit:	Hydrodyna Outfall Sta	amic Separator and abilization	Associated Permits:	None	
Original P Removal:	1.32	kg/yr	Proposed Drainage Area:	10.30 acres	
Revised P Removal:	1.30	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
		By Town By Town			

Agreements:

Private Installation Complete? By Town Municipal Reimbursement Complete? By Town Municipal Installation Complete? By Town



2 NYS Route 164 Patterson, NY 12563

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Private Installation Complete? No

Print Date: January 5, 2018

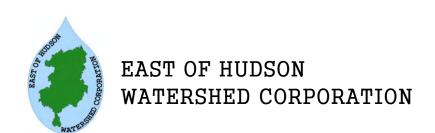
Prepared by: Kevin Fitzpatrick, PE

Checked by:

No

EOHWC Year 6(2017) Project Summary - Interim

	<u> </u>				
Project ID:	SE-DI-60	1	Project Status:	Concept	
Common Name:	Brewster H	Hill Road			
Watershed:	Diverting				
Site Owner:	NYCDEP		Design Engineer:		
Site Address:	Brewster H	Hill Rd			
County:	Putnam		60% Submission Date:		
Municipality:	Southeast		100% Submission Date:		
Supervisor:	Tony Hay		Record Document Rec'd Date:	N/A	
Original Proposed Retrofit:	Pocket Pond		Field Recon Date:		
Revised Retrofit:	Catch Basin Inserts		Associated Permits:	None	
Original P Removal:	5.18	kg/yr	Proposed Drainage Area:	N/A	acres
Revised P Removal:	3.09	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
		TBD TBD			
2 2 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1					
Agreements:					



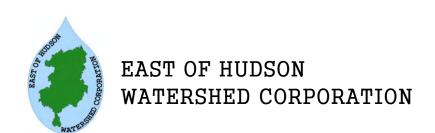
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Project ID:	SE-DI-602		Project Status:	Concept		
Common Name:	Route 22 C	Outfall				
Watershed:	Diverting					
Site Owner:	Multiple ow	ners	Design Engineer:			
Site Address:	963 Route	22				
County:	Putnam		60% Submission Date:			
Municipality:	Southeast		100% Submission Date:			
Supervisor:	Tony Hay		Record Document Rec'd Date:	N/A		
Original Proposed Retrofit:	Channel St	abilization	Field Recon Date:			
Revised Retrofit:			Associated Permits:	None		
Original P Removal:	29.69		Proposed Drainage Area:	N/A	acres	
Revised P Removal:	N/A					
Final P Removal Credit by NYSDEC:	TBD	kg/yr				
Construction Start date: Construction Completion date:		TBD TBD				
Agreements: Municipal Baimburgament Complete 2 N/A Municipal Installation Complete 2 No Drivete Installa						
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No						



2 NYS Route 164 Patterson, NY 12563

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Private Installation Complete? Yes

Print Date: January 5, 2018

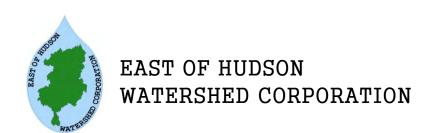
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 2 (2011) Project Summary - Interim

Project ID:	SE-POT-	·02	Project Status:	Construction	
Common Name:	Brewster	Heights			
Watershed:	Middle Br	anch			
Site Owner:	Town/Priv	vate	Design Engineer:	Municipal E	ingineer
Site Address:	Bloomer l	Rd & 2350 Rt 6			
County:	Putnam		60% Submission Date:	By Town	
Municipality:	Southeas	st	100% Submission Date:	By Town	
Supervisor:	Tony Hay	1	Record Document Rec'd Date:	TBD	
Original Proposed Retrofit:	Hydrodynamic Separators		Field Recon Date:		
Revised Retrofit:	Multiple Channel Stabilization		Associated Permits:	None	
Original P Removal:	15.51	kg/yr	Proposed Drainage Area:	58.90	acres
Revised P Removal:	67.60	kg/yr			
Final P Removal Credit by NYSDEC:	TBD	kg/yr			
Construction Start date: Construction Completion date:		TBD TBD			
Agreements:					



Agreements:

Municipal Reimbursement Complete? N/A

2 NYS Route 164 Patterson, NY 12563

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Private Installation Complete? N/A

Print Date: January 5, 2018

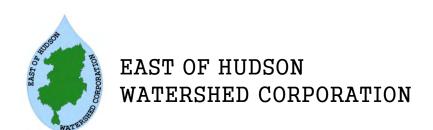
Prepared by: Kevin Fitzpatrick, PE

Checked by:

Yes

EOHWC Year 5 (2014) Project Summary - Interim

Project ID:	S-MU-33		Project Status:	Complete	
Common Name:	Van Tasse	ell Memorial Park			
Watershed:	Muscoot				
Site Owner:	Town of So	omers	Design Engineer:	Rennia Engineering Design	
Site Address:	Van Tasse	ll Memorial Park			
County:	Westchest	er	60% Submission Date:		
Municipality:	Somers		100% Submission Date:	8/10/2016	
Supervisor:	Rick Morris	ssey	Record Document Rec'd Date:	11/10/2017	
Original Proposed Retrofit:	Porous Pavement/Infiltration		Field Recon Date:	10/8/2012	
Revised Retrofit:	Infiltration Basin		Associated Permits:	None	
Original P Removal:	1.98	kg/yr	Proposed Drainage Area:	1.20	acres
Revised P Removal:	2.93	kg/yr			
Final P Removal Credit by NYSDEC:	2.93	kg/yr			
Construction Start date: Construction Completion date:		10/15/2016 11/10/2017			



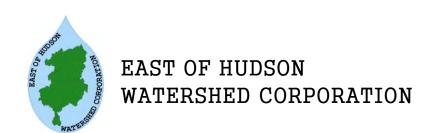
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Prepared by: Kevin Fitzpatrick, PE

Checked by:

EURIVC Year 6(2017) Project Summary - Interim							
Project ID:	S-MU-601		Project Status:	Cancelled			
Common Name:	Lakeview	Drive					
Watershed:	Muscoot						
Site Owner:	Multiple ov	wners	Design Engineer:	N/A			
Site Address:	2 Lakeviev	w Drive					
County:	Westches	ter	60% Submission Date:				
Municipality:	Somers		100% Submission Date:				
Supervisor:	Rick Morri	ssey	Record Document Rec'd Date:	N/A			
Original Proposed Retrofit:	Channel S	Stabilization	Field Recon Date:				
Revised Retrofit:			Associated Permits:	None			
Original P Removal:	7.57		Proposed Drainage Area:	N/A	acres		
Revised P Removal:	N/A						
Final P Removal Credit by NYSDEC:	TBD	kg/yr					
Construction Start date: TBD Construction Completion date: TBD							
Agreements:	ant Complete	? Municipal Installa	tion Complete?	Private Installation (Complete?		
Municipal Reimbursem	ient Complete	: iviui iicipai mstalla	tion complete:	Tivate ilistaliation (Somplete:		



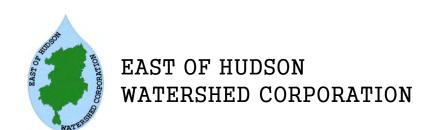
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Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EURIVC Tear	0(2017)	rioje	cı Summary	<u>- 111(C11111</u>				
Project ID:	Y-MU-601		Project Status:		Design			
Common Name:	Front Stree	et						
Watershed:	Muscoot							
Site Owner:	Town of Yorktown			Design Engine	er:	Diverka & Bartillucci		
Site Address:	1785 Front Street							
County:	Westchester			60% Submission Date:				
Municipality:	Yorktown			100% Submission Date:				
Supervisor:	Michael Grace			Record Document Rec'd Date:		N/A		
Original Proposed Retrofit:	Pocket Wetland			Field Recon Date:				
Revised Retrofit:	Wetland System		Associated Permits:		None			
Original P Removal:	27.38	kg/yr		Proposed Drain	age Area:	82.50	acres	
Revised P Removal:	7.91	kg/yr						
Final P Removal Credit by NYSDEC:	TBD	kg/yr						
Construction Start date: Construction Completion date:		TBD TBD						
Agreements: Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No								
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No								



Tel: 845-319-6349 Fax: 845-319-6391

Print Date: January 5, 2018

Prepared by: Kevin Fitzpatrick, PE

Checked by:

EOHWC Year 6(2017) Project Summary - Interim

LOTIVO Tear	-		ot Garrina y	- miterim				
Project ID:	Y-MU-602		Project Status:	Design				
Common Name:	Junior La	ake						
Watershed:	Muscoot							
Site Owner:	Town of Yorktown			Design Engineer:				
Site Address:	Haylan Rd and Edgewater St							
County:	Westchester			60% Submission Date:				
Municipality:	Yorktown			100% Submission Date:				
Supervisor:	Michael Grace			Record Document Rec'd Date:	N/A			
Original Proposed Retrofit:	Surface Sand Filters			Field Recon Date:				
Revised Retrofit:	Subsurface Infiltration		Associated Permits:	None				
Original P Removal:	5.30	kg/yr		Proposed Drainage Area:	44.60	acres		
Revised P Removal:	TBD	kg/yr						
Final P Removal Credit by NYSDEC:	TBD	kg/yr						
Construction Start date: Construction Completion date:		TBD TBD						
Agreements:								
Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No								

Municipal Reimbursement Complete? N/A Municipal Installation Complete? No Private Installation Complete? No