

# **General Information**

Instructions Gen	eral Volume Rate Qual	ity	
Project Name:	River Pointe Logisitics Center	Application Type:	Individual NPDES Application
County:	Northampton	Municipality:	Upper Mount Bethel Township
Project Type:	Commercial Building	New Project	$\bigcirc$ Minor / Major Amendment
Area: (In Watershed)	22.25 acres	Total Earth Disturba (In Watershed)	nce: <b>19.73</b> acres
No. of Post-Constr	uction Discharge Points: 1	Start DP Numbering	at: 003

Discharge	Drainage Area	Earth Disturbance in	Existing Impervious in	Proposed Impervious in		Ch. 93	Structural
Point (DP) No.	(DA) (acres)	DA (acres)	DA (acres)	DA (acres)	<b>Receiving Waters</b>	Class	BMP(s)
					Discharge to Non-Surface		
003	11.09	10.09	0.00	0.26	Waters	CWF, MF	Yes
Undetained					Discharge to Non-Surface		
Areas	11.16	9.64	0.00	0.66	Waters	CWF, MF	
Totals:	22.25	19.73		0.92			



## **Volume Management**

**Project: River Pointe Logisitics Center** 

Instructions General Volume Rate Quality						
2-Year / 24-Hour Storm Event (NOAA Atlas 14): <b>3.3</b> inches	Alternative 2-Ye	ar / 24-Hour Stor	rm Event		inches	
	Alternative Sour	ce:				
Pre-Construction Conditions: No. Rows: 3	from Meadow in	Good Condition	🗹 Automa	tically Calcu	late CN, Ia, Runo	ff and Volume
Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)
Forested (Good Condition)	5.64	C	70	0.857	0.89	18,158
Pervious as Meadow	13.66	С	71	0.817	0.94	46,552
Pervious as Meadow	0.43	D	78	0.564	1.35	2,103
TOTAL (ACRES):	19.73		-		TOTAL (CF):	66,812
Post-Construction Conditions: No. Rows: 4						
Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	18.33	С	74	0.703	1.10	73,454
Impervious Areas: Industrial	0.92	D	98	0.041	3.07	10,243
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	0.05	С	71	0.817	0.94	170
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	0.43	D	78	0.564	1.35	2,103
TOTAL (ACRES):	19.73				TOTAL (CF):	85,970

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#### Non-Structural BMP Volume Credits:

Tree Planting Credit

Other (attach calculations):

Structural BMP Volume Credits:

No. Structural BMPs: 1

Start BMP Numbering at:

DP No.	BMP No.	BMP Name	MRC?	Discharge	Incrementa I BMP DA (acres)	Volume Routed to BMP (CF)	Infiltration / Vegetated Area (SF)	Infiltration	 	Media Depth (ft)	Storage Volume (CF)	Infiltration Credit (CF)	ET Credit (CF)
003	12	Capture and Reuse		Off-Site	10.09	42,286							

Totals:

INFILTRATION & ET CREDITS (CF):

CAPTURE AND REUSE CREDIT (CF):

42,286

19,157

NET CHANGE IN VOLUME TO MANAGE (CF):

19,157

TOTAL CREDITS (CF): 42,286

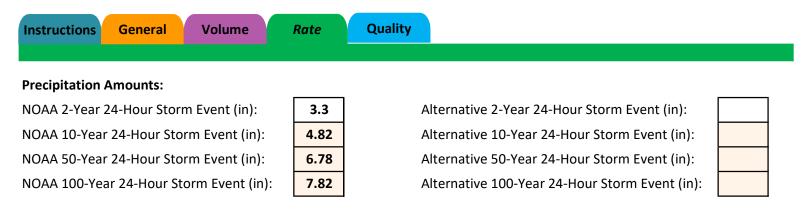
**VOLUME REQUIREMENT SATISFIED** 

Volume Worksheet



## **Rate Control**

#### **Project: River Pointe Logisitics Center**



#### Report Summary of Peak Rates Only

	Peo	ak Discharge Rates (d	fs)	
	Pre-Construction	Post-Construction	Net Change	
2-Year Storm:	55.13	44.28	-10.85	R
10-Year Storm:	114.33	91.15	-23.18	R
50-Year Storm:	198.18	165.59	-32.59	R
100-Year Storm:	244.20	206.07	-38.13	R

Rate Control Satisfied Rate Control Satisfied Rate Control Satisfied Rate Control Satisfied



# Water Quality

**Project: River Pointe Logisitics Center** 

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	Instructions	General	Volume	Rate	Quality
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#### **Pre-Construction Pollutant Loads:**

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Polluta	nt Conc.	(mg/L)	Pollutant Loads (lbs)		
	Quality	(acres)	Group	(cf)	TSS	ТР	TN	TSS	ТР	TN
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	5.64	С	18,158	45.0	0.13	1.05	51.02	0.15	1.19
Pervious as Meadow Grassland/Herbaceous		13.66	С	46,552	48.8	0.22	2.30	141.85	0.64	6.69
Pervious as Meadow Grassland/Herbaceous		0.43	D	2,103	48.8	0.22	2.30	6.41	0.03	0.30
	19.73				тс	DTALS:	199.28	0.82	8.18	

#### Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
	Quality	(acres)	Group		TSS	ТР	TN	TSS	ТР	TN
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	Open Space	18.33	С	73,454	78.0	0.25	1.25	357.76	1.15	5.73
Impervious Areas: Industrial	Industrial	0.92	D	10,243	81.0	0.24	2.01	51.81	0.15	1.29

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.05	С	170	48.8	0.22	2.30	0.52	0.00	0.02
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay Grassland/Herbaceous		0.43	D	2,103	48.8	0.22	2.30	6.41	0.03	0.30
	19.73		-		т	OTALS:	416.49	1.33	7.35	

### POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS): 217.21

7.21 0.52 0.00

TSS

25.89

TP

0.09

TΝ

0.73

Characterize Undetained Areas (for Untreated Stormwater)

No. Rows: 2

Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	8.48	С	74	0.703	1.10	33,982
Impervious Areas: Industrial	0.67	N/A	98	0.041	3.07	7,460

#### Non-Structural BMP Water Quality Credits:

Pervious Undetained Area Credit

Other (attach calculations)

#### **Structural BMP Water Quality Credits:**

Use default BMP Outflows and Median BMP Outflow Concentrations

	BMP	BMP Name	1RC?	BMP DA	Vol. Routed	Inf. & ET	Capture & Buffer	Outflow	Outflo	w Conc.	(mg/L)	Pollut	ant Load	ls (lbs)
DP No.	No.	Divir Name		(acres)	to BMP (CF)	Credits (CF)	Credits (CF)	(CF)	TSS	TP	TN	TSS	ТР	TN
003	12	Capture and Reuse		10.09	42,286		42,286	0	0.00	0.00	0.00	0.00	0.00	0.00

TSS	ТР	ΤN
0.00	0.00	0.00
203.24	0.64	3.59
25.89	0.09	0.73
177.35	0.55	2.86
199.28	0.82	8.18

POLLUTANT LOADS FROM STRUCTURAL BMP (TREATED) OUTFLOWS (LBS): POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):

NON-STRUCTURAL BMP WATER QUALITY CREDITS (LBS):

NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):

POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS): 199.

WATER QUALITY REQUIREMENT SATISFIED

### CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

Steve Walsh	
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4/1/2023

Spreadsheet User Name

Date