

Water Quality

Project: HCPP Pipeline - POA-1

PRINT

Instructions

General

Volume

Rate

Quality

Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	0.19	D	560	48.8	0.22	2.30	1.71	0.01	0.08
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.01	C	14	45.0	0.13	1.05	0.04	0.00	0.00
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	1.97	D	5,436	45.0	0.13	1.05	15.28	0.04	0.36
Impervious Areas: Streets and Roads - Gravel (Including ROW)	Highway (general)	0.03	D	156	141.0	0.43	2.65	1.37	0.00	0.03
Impervious as Meadow	Grassland/Herbaceous	0.01	D	19	48.8	0.22	2.30	0.06	0.00	0.00
TOTAL (ACRES):		2.21			TOTALS:			18.47	0.06	0.47

Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	1.73	D	5,075	48.8	0.22	2.30	15.46	0.07	0.73
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	Residential	0.44	N/A	3,690	65.0	0.29	2.05	14.98	0.07	0.47
Impervious Areas: Streets and Roads - Gravel (Including ROW)	Highway (general)	0.03	D	190	141.0	0.43	2.65	1.67	0.01	0.03

TOTAL (ACRES): 2.21

TOTALS: 32.11 0.14 1.23

POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS): 13.64 0.09 0.77

Characterize Undetained Areas (for Untreated Stormwater)

No. Rows: 2

Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	1.19	D	78	0.564	0.81	3,488
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	0.03	N/A	98	0.041	2.30	251

Non-Structural SCM Water Quality Credits:

Pervious Undetained Area Credit

TSS	TP	TN
2.66	0.01	0.08

Other (attach calculations)

Description:

TSS	TP	TN

Structural SCM Water Quality Credits:

Use default SCM Outflows and Median SCM Outflow Concentrations

POA	SCM	SCM Name	SCM DA	Vol. Routed	Inf. & ET	Capture & Buffer	Outflow	Outflow Conc. (mg/L)	Pollutant Loads (lbs)
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No.	No.	SCM Name	MF	DA (acres)	to SCM (CF)	Credits (CF)	Buffer Credits (CF)	(CF)	TSS	TP	TN	TSS	TP	TN
001	1	Rain Garden / Bioretention	-	0.99	5,234	5,234		0	10.00	0.24	0.96	0.00	0.00	0.00

POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):

POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):

NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):

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

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

TSS	TP	TN
0.00	0.00	0.00
11.65	0.05	0.53
2.66	0.01	0.08
8.99	0.04	0.45
18.47	0.06	0.47

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.

Charles Kane, P.E.

Spreadsheet User Name

9/24/2025

Date