

# Complete Report (not including cost) Ver 2.1.0

Project: St Johns Ave

Date: 2/13/2020 11:51:28 AM

## Site and Catchment Information

Analysis: BMP Analysis

Catchment Name	St. Johns Avenue
Rainfall Zone	Florida Zone 2
Annual Mean Rainfall	50.00

## Pre-Condition Landuse Information

Landuse	High-Intensity Commercial: TN=2.40 TP=0.345
Area (acres)	20.30
Rational Coefficient (0-1)	0.75
Non DCIA Curve Number	95.00
DCIA Percent (0-100)	85.00
Nitrogen EMC (mg/l)	2.400
Phosphorus EMC (mg/l)	0.345
Runoff Volume (ac-ft/yr)	63.353
Nitrogen Loading (kg/yr)	187.474
Phosphorus Loading (kg/yr)	26.949

## Post-Condition Landuse Information

Landuse	High-Intensity Commercial: TN=2.40 TP=0.345
Area (acres)	20.30
Rational Coefficient (0-1)	0.75
Non DCIA Curve Number	95.00
DCIA Percent (0-100)	85.00
Wet Pond Area (ac)	0.00
Nitrogen EMC (mg/l)	2.400
Phosphorus EMC (mg/l)	0.345
Runoff Volume (ac-ft/yr)	63.353
Nitrogen Loading (kg/yr)	187.474
Phosphorus Loading (kg/yr)	26.949

# Catchment Number: 1 Name: St. Johns Avenue

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## Pervious Pavement Design

Surface Area of Pavement (acres)	0.400		
Retention Volume (ac-ft)	0.102		
Treatment Volume (in over watershed)	0.062		
Pavement Type	Thickness (in)	Storage (in)	Storage (ac-ft)
Permeable Pavers	3.13	0.313	0.010
#57 rock(non-calcareous)	4.00	0.840	0.028
#4 rock	8.00	1.920	0.064
<b>Total</b>		<b>3.073</b>	<b>0.102</b>

## Watershed Characteristics

Catchment Area (acres)	20.30
Contributing Area (acres)	19.900
Non-DCIA Curve Number	95.00
DCIA Percent	85.00
Rainfall Zone	Florida Zone 2
Rainfall (in)	50.00

## Surface Water Discharge

Required TN Treatment Efficiency (%)	
Provided TN Treatment Efficiency (%)	7
Required TP Treatment Efficiency (%)	
Provided TP Treatment Efficiency (%)	7

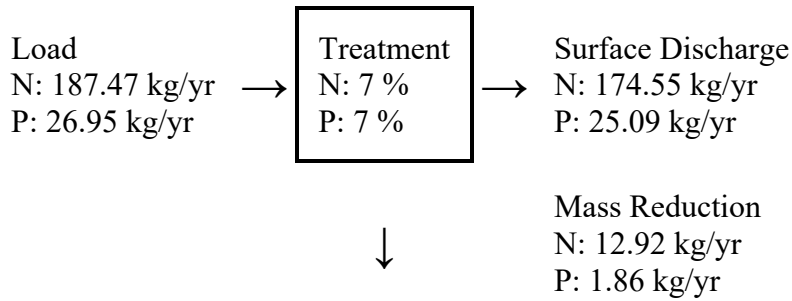
## Media Mix Information

Type of Media Mix	Not Specified
Media N Reduction (%)	
Media P Reduction (%)	

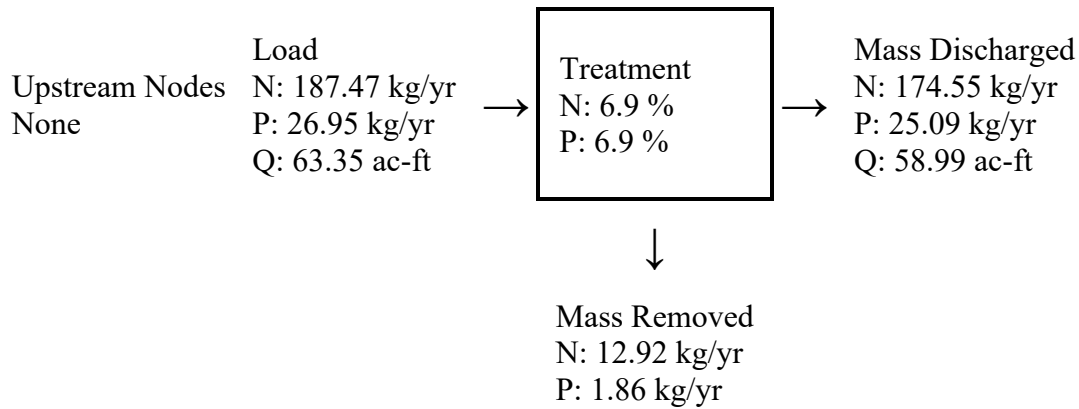
## Groundwater Discharge (Stand-Alone)

Treatment Rate (MG/yr)	0.000
TN Mass Load (kg/yr)	12.923
TN Concentration (mg/L)	0.000
TP Mass Load (kg/yr)	1.858
TP Concentration (mg/L)	0.000

## Load Diagram for Pervious Pavement (stand-alone)



## Load Diagram for Pervious Pavement ( As Used In Routing)



# Summary Treatment Report Version: 2.1.0

Project: St Johns Ave

Date:2/13/2020

**Analysis Type:** BMP Analysis

**BMP Types:**

Catchment 1 - Pervious

Pavement

**Routing Summary**

Catchment 1 Routed to Outlet

## Summary Report

Nitrogen

### Surface Water Discharge

Total N post load	187.47 kg/yr	
Percent N load reduction	7 %	
Provided N discharge load	174.55 kg/yr	384.88 lb/yr
Provided N load removed	12.92 kg/yr	28.5 lb/yr

Phosphorus

### Surface Water Discharge

Total P post load	26.949 kg/yr	
Percent P load reduction	7 %	
Provided P discharge load	25.092 kg/yr	55.33 lb/yr
Provided P load removed	1.858 kg/yr	4.096 lb/yr