

# Richland Fire Company



**Subwatershed:** South River  
**Site Area:** 144,978 sq. ft.  
**Address:** 876 Main Avenue  
Buena, NJ 08310  
**Block and Lot:** Block 4529, Lot 4



Two rain gardens can be installed at the two north corners of the building to capture, treat, and infiltrate rooftop runoff. The southernmost row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.






Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
22	31,228	1.5	15.8	143.4	0.024	0.86

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.035	6	2,580	0.10	340	\$1,700
Pervious pavement	0.327	55	24,000	0.90	1,825	\$45,625

# GREEN INFRASTRUCTURE RECOMMENDATIONS



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-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

