

From: [Strackbein, Trenton](#)
To: [Elizabeth Wong](#)
Subject: [EXTERNAL] RE: Arrieto 500-year storm
Date: Sunday, December 18, 2022 9:00:25 AM
Attachments: [image001.png](#)
[image003.png](#)



Elizabeth,

You reached out to me for a comparison of pre-development versus post-development discharge rates from the site in the 500-year storm event in addition to this result showing the banks did not overtop. Please see below result. The post development discharge rate is less than the pre-development discharge rate in the 500-year storm at our analysis point. Please let me know if you need anything further.

	Scenario	Sim	Node Name	imum Total Inflow Rate [cfs]
	Arrieto_Existing	500YR24HR	N_BASIN3	30.74
	Arrieto_Proposed	500YR24HR	N_BASIN3	23.59

Thank you,
Trenton

From: Strackbein, Trenton
Sent: Saturday, December 3, 2022 10:08 AM
To: Elizabeth Wong <ewong@northportfl.gov>
Subject: Arrieto 500-year storm

Elizabeth,

As a test, we ran the 500-year, 24-hour storm (15.5" rainfall) to see the impact to our proposed stormwater management system. Our calculations show that the on-site pond still does not overtop in this condition. See below results indicating a 500-year maximum elevation of 7.96 versus our top of bank of 8.00.

	Scenario	Sim	Node Name	Maximum Stage [ft]	imum Total Inflow Rate [cfs]
	Arrieto_Proposed	500YR24HR	POND	7.96	159.95

Thank you,

Trenton Strackbein, P.E.
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