

Stormwater Utility

Application for Modification of ERU

Section A: Property Information

Site / Subdivision Name

Property Address

City

State

Zip Code

Tax ID

Customer Account Number

Section B: Owner Information

Name/Company

Phone

Email

Address

City

State

Zip Code

Section C: Applicant / Engineer Information

Name/Company

Phone

Email

Address

City

State

Zip Code

Section D: Parcel ERU Calculation

Property Size (Acres): _____

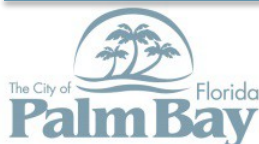
Developed

Undeveloped

Impervious Area (Acres): _____

EIA (Sq Ft): _____

of ERU's: _____



Section E: ERU Credit Requested (Check the condition you are applying for)

(Supporting Documentation / Calculations Required. Credit is recognized for the discharge rate (flow) going offsite for the entire parcel)

Condition 1 – Detention System for a 25-year, 24-hour storm event (9.5 inches)

1. Pre-Development Flow Rate = _____

2. Post-Development Flow Rate = _____

3. Is Post-Development Flow Rate less than or equal to Pre-Development Flow Rate?

_____ Yes _____ No

If Yes, then **30% credit** is receive.

Condition 2 – Extended Detention System for a 25-year, 24-hour storm event (9.5 inches)

1. Pre-Development Flow Rate = _____

2. Post-Development Flow Rate = _____

3. Percent Credit must be a **minimum 10%** in order to receive additional credit. Percent credit will be given in 1% increments.

$$\left(1 - \frac{\text{Post - Development Flow Rate}}{\text{Pre - Development Flow Rate}}\right) * 20\% = \text{Percent Credit}$$

$$\left(1 - \text{_____}\right) * 20\% = \text{_____}\%$$

Calculated credit = _____

Condition 3 – Retention Systems for a 25-year, 24-hour storm event (9.5 inches)

1. Post-Development Flow Rate = _____ = 0

_____ Yes _____ No

If Yes, then **50% credit** is received.

Condition 4 – Extended Retention System for a 100-year, 24-hour storm event (12.3 inches)

1. Retention Design must be for a 24-hour storm event which is between 9.5 inches and 12.3 inches.

2. How many inches are being retained for a 24-hour storm event? _____ inches

3. Percent credit will be given in 1% increments.

$$\frac{(\text{inches} - 9.5)(50\%)}{2.8} + 50\% = \text{Percent Credit}$$

$$\frac{(\text{_____} - 9.5)(50\%)}{2.8} + 50\% = \text{_____}\%$$

Calculated credit = _____

Condition 5 – No offsite stormwater discharge (100% Credit)

Condition 6 – Wetlands/Conservation Lands (100% Credit)

Section E: For Engineer's Use Only

I hereby certify that this Application for Modification of ERU has been properly prepared by me, or under my responsible charge, in accordance with procedures adopted by the City of Palm Bay.

Signature and Seal: _____

Engineer of Record: _____

Date: _____

Insert Seal Here

FL License No.: _____

Site / Subdivision Name: _____

Section F: For City Use Only

Modified ERU

Existing ERU: _____

Credit Approved

Modified ERU: _____

Yes No

Recurring Credit Percentage: _____

Effective Date of Credit: _____

Additional Notes

Name &
Signature:

Director of Public Works for the City of Palm Bay

Definitions:

Detention Systems:

To the collection and storage of surface water for subsequent controlled discharge at a rate which is less than or equal to the before development rate (pre-development) for a 25-year, 24-hour storm event, which equates to 9.5 inches of rainfall within a 24 hour period. Initial credit is thirty percent (30%) of the amount of the user fee confirmed by the Director.

Extended Detention Systems:

To the collection and storage of surface water for subsequent controlled discharge at a rate which is less than the before development rate (pre-development) for a 25-year, 24-hour storm event, which equates to 9.5 inches of rainfall within a 24 hour period. Initial credit is thirty percent (30%) of the amount of the user fee confirmed by the Director. Eligible for a credit of up to fifty percent (50%) of the amount of the user fee confirmed by the Director to be the ratio of parcel's runoff from a 25-year, 24-hour storm event with the detention facilities as compared to without (credit is proportional to the percentage of runoff rate reduction achieved).

Effective Impervious Area (EIA):

That portion of property which is comprised of all of its impervious area plus fifteen percent (15%) of its pervious area.

Equivalent Residential Unit (ERU):

4,693 square feet of effective impervious area, which is the average effective impervious area of a typical detached single family residential developed property located within incorporated Palm Bay, and is the basic unit for the computation of stormwater management system user fees.

Retention System:

The collection and storage of runoff without subsequent surface discharge to surface waters. Eligible for a credit of up to one hundred percent (100%) of the amount of the user fee confirmed by the Director to be the percentage of stormwater runoff from a 25-year, 24-hour storm event which is retained on the property (credit is directly proportional to volume of runoff retained).

Wetlands:

Those areas saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a dominance of vegetation adapted for life in saturated soil conditions. For the purposes of these regulations, wetlands are those areas which meet the criteria of both (1) and (2) as follows:

- (1) Those areas which support a dominance of wetland vegetation types listed in the rules of the Florida Department of Environmental Protection;
- (2) Those areas associated with soil types as mapped in the latest edition of the soil survey of Brevard County by the United States Department of Agriculture Soil Conservation Service.

Computation of Utility Fees:

<i>Type of Land Use</i>	<i>Equivalent Residential Units (ERUs) Assigned</i>
Single-Family Residential developed property	
Small Tier – building footprint between 100-1,500 sq. ft.	0.70 ERUs
Medium Tier – building footprint between 1,501–2,700 sq. ft.	1.00 ERU
Large Tier – building footprint between 2,701-4,600 sq. ft.	1.40 ERUs
Very Large Tier – building footprint greater than 4,600 sq. ft.	2.79 ERUs
Condominium Property	
Residential Condominium Parcels	1.00 ERU per 4,693 square feet of EIA for condominium complex ÷ number of residential condominiums
Non-Residential Condominium Parcels	1.00 ERU per 4,693 square feet of EIA for condominium complex times proportionate share of non-residential condominium buildings
General Parcels (includes all non-residential, multi-family residential (duplex, triplex, quadraplex and apartments) and undeveloped property	1.00 ERU per 4,693 square feet of EIA