

**Town of St. Lucie Village**  
**Central Indian River Lagoon BMAP**  
**Draft Allocations April 2020**

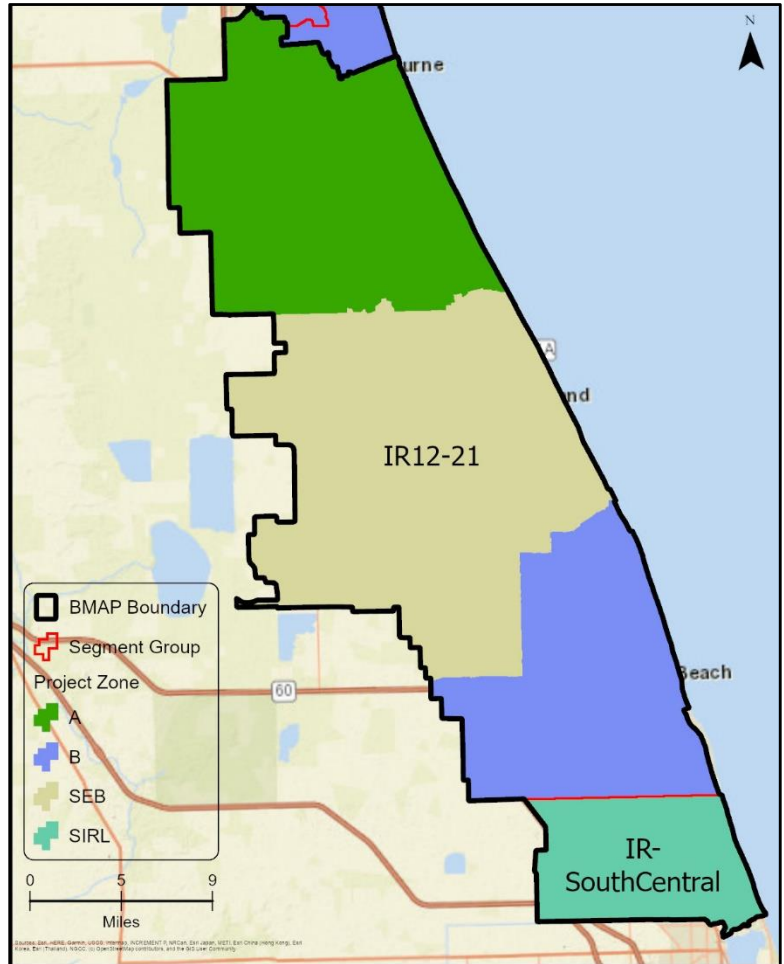
**Updated Draft Allocations**

**Summary:**

- Used load estimation tool (LET) developed from SWIL model to calculate total nitrogen (TN) and total phosphorus (TP) starting loads for each total maximum daily load (TMDL) "Segment Group."
- Applied percent reduction from TMDL for each Segment Group (see tables below) to calculate total TN and TP load reduction required for each Segment Group.
- Used LET to calculate total anthropogenic starting load in each Segment Group and determine the percent each entity contributed to the total anthropogenic starting load.
- Multiplied the load reduction required in the Segment Group by the percent each entity contributed to the total anthropogenic starting load to calculate each entity's required reductions within each Segment Group.

*Note: Numbers have been rounded for display in this document but were not rounded during the full calculation process.*

**CIRL BMAP Project Zones and TMDL Segments**

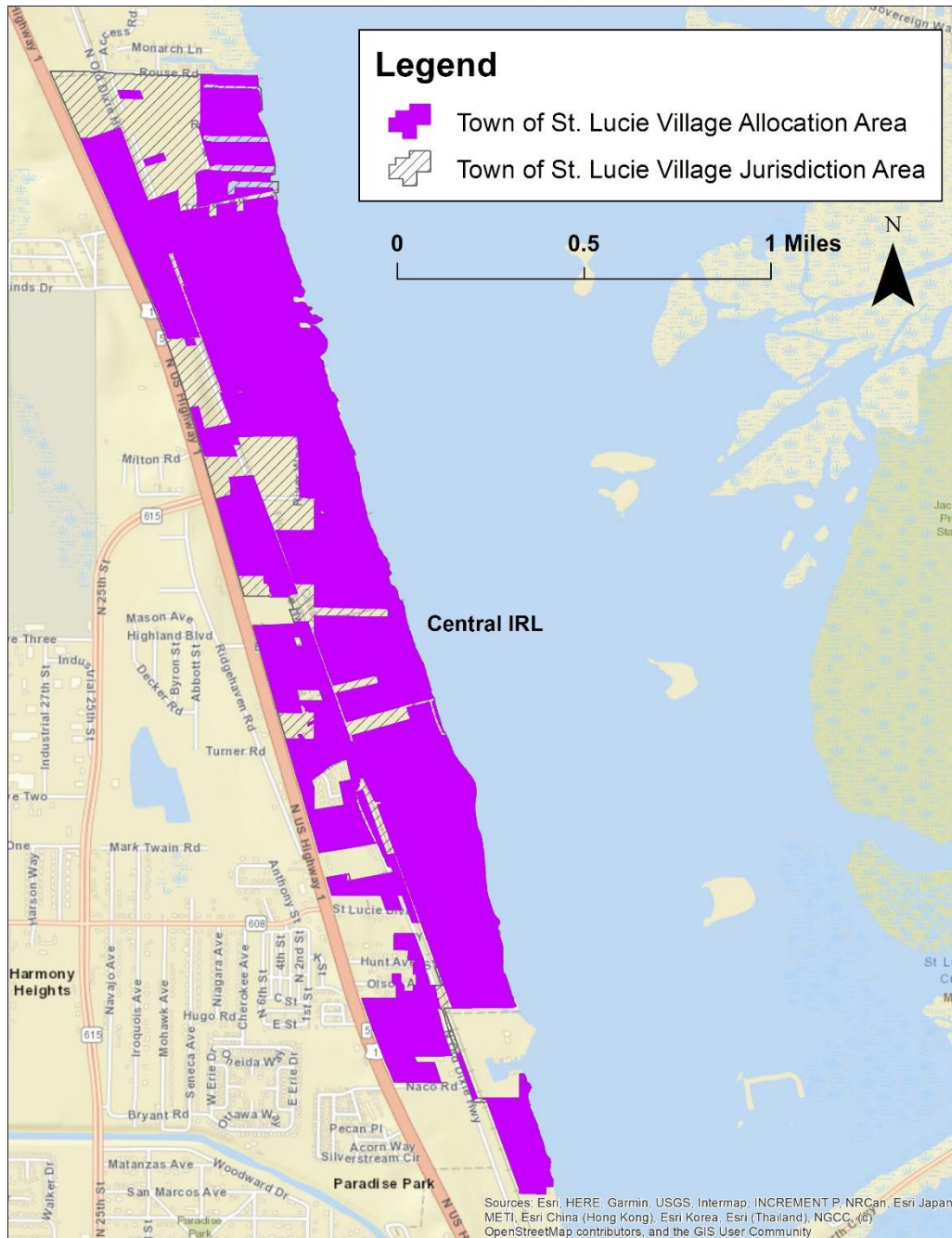


**Required Reductions Per TMDL Segment Group**

| BMAP        | Project Zone | TMDL Segment Group | % TN TMDL Total Reduction | % TP TMDL Total Reduction |
|-------------|--------------|--------------------|---------------------------|---------------------------|
| Central IRL | A, B, SEB    | IRL12-21           | 56%                       | 48%                       |
| Central IRL | SIRC         | IR-SouthCentral    | 36%                       | 58%                       |

## New Load Calculations from SWIL Model

| BMAP         | Project Zone | TN (lbs/yr)   |                     |              | TP (lbs/yr)   |                     |            |
|--------------|--------------|---------------|---------------------|--------------|---------------|---------------------|------------|
|              |              | Starting Load | Required Reductions | Allocation   | Starting Load | Required Reductions | Allocation |
| Central IRL  | SIRL         | 4,241         | 2,028               | 2,213        | 723           | 525                 | 198        |
| <b>Total</b> |              | <b>4,241</b>  | <b>2,028</b>        | <b>2,213</b> | <b>723</b>    | <b>525</b>          | <b>198</b> |



## **Draft Project Credit Recalculations**

Using the LET and geographic information system (GIS) tools, base loads for the project treatment areas were updated for all projects that require a base load for credit calculations. This allowed the project credits to be recalculated using the same foundation that was used for the updated allocations.

### **Notes:**

- **SLV-01** is currently the only project for the Town of St. Lucie Village listed in the Central IRL BMAP. We could not locate a treatment area (TA) shapefile for this project. Once we receive the TA shapefile, the reduction credit can be updated/calculated.
- There will continue to be opportunities to submit new projects and obtain additional credits towards the required reductions.