



CITY OF TITUSVILLE

TITUSVILLE ENVIRONMENTAL COMMISSION

AGENDA

Regular Meeting

May 14, 2025 - 5:30 PM

Council Chamber at City Hall

555 South Washington Avenue, Titusville, FL 32796

All persons who anticipate speaking on any Public Hearing item must fill out an Oath Card to be heard on that agenda item and sign the oath contained thereon. These cards are located on the table near the entrance to the Council Chamber or may be obtained from the Recording Secretary. This meeting will be conducted in accordance to the procedures adopted in Resolution No. 24-1997.

Those speaking in favor of a request will be heard first, those opposed will be heard second, and those who wish to make a public comment on the item will speak third. The applicant may make a brief rebuttal if necessary. A representative from either side, for or against, may cross-examine a witness.

Anyone who speaks is considered a witness. If you have photographs, sketches, or documents that you desire for the Commission to consider, they must be submitted into evidence and will be retained by the City. Please submit such exhibits to the Recording Secretary.

1. CALL TO ORDER

2. ROLL CALL

3. DETERMINATION OF A QUORUM

4. PLEDGE OF ALLEGIANCE

5. APPROVAL OF MINUTES

A. Minutes April 9, 2025

Approve minutes

6. PETITIONS AND REQUESTS FROM THE PUBLIC PRESENT (NON-AGENDA ITEMS)

7. OLD BUSINESS

A. **Native Municipal Tree, Canopy, and Landscape Management Trust Fund**

Discuss the Native Municipal Tree, Canopy, and Landscape Management Trust Fund concept.

B. **TEC By-laws**

Discuss the amendment and vote.

C. Minimum criteria for urban trees and green space: 3-30-300 Rule.

Discuss the rule. No action.

8. NEW BUSINESS

9. PETITIONS AND REQUESTS FROM THE PUBLIC PRESENT

10. REPORTS

A. **Staff Updates**

11. FUTURE AGENDA ITEMS

12. ADJOURNMENT

Any person who decides to appeal any decision of the Titusville Environmental Commission with respect to any matter considered at this meeting will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

The City desires to accommodate persons with disabilities. Accordingly, any physically handicapped person, pursuant to Chapter 286.26 Florida Statutes, should, at least 48 hours prior to the meeting, submit a written request to the chairperson that the physically handicapped person desires to attend the meeting.

City of Titusville
"Gateway to Nature and Space"

REPORT

To: Members of the Titusville Environmental Commission
From: Brad Parrish, Community Development Director
Subject: **Minutes April 9, 2025**
Department/Office: Planning

Recommended Action:

Approve minutes

Summary Explanation & Background:

Minutes April 9, 2025

Alternatives:

Item Budgeted:

Source/Use of Funds/Budget Book Page:

Strategic Plan:

Strategic Plan Impact:

ATTACHMENTS:

1. 04.09.25 TEC Minutes Draft

The Titusville Environmental Commission (TEC) of the City of Titusville, Florida met in regular session at City Hall in the Council Chamber located at 555 South Washington Avenue on Wednesday, April 9, 2025, at 5:30pm.

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Chairman Michael Myjak, called the meeting to order at 5:30pm. Present were, Vice Chairwoman Laurilee Thompson, Member Jonathan Burdette, Member Michael Browning, Member Hector Delgado and Member Beth Ann Tucker. Member Robert Walter, Alternate Member William Young and Alternate Member Joshua Koci were absent. Staff present were Community Development Director Brad Parrish, Public Works Director Kevin Cook, Sustainability Program Coordinator Lily Galleo and Recording Secretary Laurie Dargie.

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Vice Chairwoman Thompson made a motion to approve the March 12, 2025 meeting minutes as presented. Member Delgado seconded. There was a unanimous voice vote in favor.

XXX

Vice Chairwoman Thompson asked that the Commission consider moving agenda Item 10A to be heard just after Item 7A of the agenda.

Vice Chairwoman Thompson made a motion to move Item 10A to just after Item 7A in the agenda layout. Member Tucker seconded. There was a unanimous voice vote in favor.

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Petitions and Requests from Public Present

Stan Johnston of Titusville, Florida came to speak regarding an email he sent to the Titusville Environmental Commission on the subject of sewage being sprayed from stormwater ponds.

XXX

Old Business

Hydrofluosilicic Acid in Drinking Water

Member Tucker asked why this is being discussed by the Titusville Environmental Commission. Chairman Myjak informed Member Tucker as to why this was brought up for discussion.

Chairman Myjak asked for a five-minute recess to allow Mr. Johnston to return to the Council Chamber in order to participate on this item.

Stan Johnston of Titusville, Florida came to speak about this item and how he thinks hydrofluosilicic acid should not be used in Titusville's drinking water.

Stel Bailey of Port St. John, Florida came to speak of the negative effects of using hydrofluosilicic acid and how it needs to be removed from Titusville's drinking water.

Melissa Johnson of Titusville, Florida came to speak of the negative effects of using hydrofluosilicic acid and how it needs to be removed from Titusville's drinking water.

Member Burdette asked Public Works Director, Kevin Cook if there is any pipe corrosion due to the use of the hydrofluosilicic acid. Mr. Cook said no.

Member Burdette asked if using hydrofluosilicic acid was a requirement. Mr. Cook said no. Mr. Cook informed the TEC that Cocoa also adds hydrofluosilicic acid to their drinking water.

The Titusville Environmental Commission had discussion.

Mr. Cook stated that there could potentially be legislation coming that will ban fluoride in drinking water statewide.

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Member Browning made a motion to recommend to City Council that hydrofluosilicic acid be removed from Titusville's drinking water. Member Burdette seconded.

Roll call was as follows:

Member Burdette	Yes
Member Delgado	Yes
Member Browning	Yes

Member Tucker	Yes
Vice Chairman Thompson	Yes
Chairman Myjak	Yes

Motion passed.

XXX

Chairman Myjak asked Public Works Director Kevin Cook if fountains are no longer be used in stormwater ponds and if aerators are being use in place of fountains. Mr. Cook said yes.

Chairman Myjak asked Mr. Cook about the water supply that the City of Titusville gets from Cocoa.

Chairman Myjak asked Mr. Cook questions about Titusville's wellfields. Mr. Cook said that the City of Titusville is looking into a hydration project for the Area 3 Wellfield.

Reports

Community Development Director Brad Parrish said that Kimley-Horn, consultant for the city, was provided with three of the city's ordinances to review and make recommendations on.

Critical Root Zone (CRZ)

Member Browning had concerns regarding a landscape architect being used to review this ordinance instead of an arborist. Mr. Parrish said that the city's arborist reviewed the ordinance also. Mr. Parrish read the city's arborist's comments to the Titusville Environmental Commission.

Member Browning voiced his concerns regarding the report and recommendations that the consultant made and disagreed with their analysis.

Mary Sphar of Cocoa, Florida came to speak about this item and said that she does not agree with Kimley-Horn's analysis. Ms. Sphar said there was too much generalization and not any specifics. Ms. Sphar said their report does not value trees at all and is more concerned about the added cost to Developers. Ms. Sphar also spoke about Section 30-32.

Kay St. Onge of Titusville, Florida came to speak about this item and voiced her concerns with Kimley-Horn's report.

Member Browning stated that this Ordinance should have been presented to City Council already and it should be forwarded to City Council as soon as possible. Member Browning has concerns with projects that are being submitted without having this ordinance in place for CRZ protection.

Kay St. Onge of Titusville, Florida spoke about the preservation of healthy trees and how the ordinance states that staff should work with the Developers to save healthy trees as part of the conditions for granting approval.

Toni Shifalo of Titusville, Florida stated that Kimley-Horn was awarded several city consultant contracts at last night's City Council meeting.

Vice Chairwoman Thompson said she would prefer to keep the Titusville Environmental Commission's recommendations on the CRZ Ordinance that they made at the January 15, 2025 meeting.

Member Browning was asked if he thought the 33% encroachment was acceptable. Member Browning said only if a certified arborist is able to assess the tree roots and verify that no structural roots are broken.

Mr. Parrish asked if there are any recommendations made by Kimley-Horn that the Commission agrees with.

Vice Chairwoman Thompson said that for the CRZ the only recommendations that she would agree with are the last three bullet points on page 214 of 237 of the agenda packet. She does not agree with the first two. Member Browning agrees with Vice Chairwoman Thompson.

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Member Browning made a motion to keep their recommendation on the Critical Root Zone Ordinance that was made at their January 15, 2025 Titusville Environmental Commission meeting and forward the recommendation to City Council. Member Burdette seconded.

Roll call was as follows:

Vice Chairwoman Thompson	Yes
Member Delgado	Yes
Member Burdette	Yes
Member Browning	Yes
Member Tucker	Yes

Member Browning agreed with Chairwoman Thompson and stated it is not hard to meet the 50% Brevard native plantings.

The Titusville Environmental Commission had additional discussion relating to the work they put into creating the Brevard native planting list and how it should be provided to Developers.

Kay St. Onge of Titusville, Florida came to speak to the Commission and suggested adding two whereas clauses to the ordinance.

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Old Business

Native Municipal Tree, Canopy, and Landscape Management Trust Fund

Member Delgado made a motion to table the Native Municipal Tree, Canopy, and Landscape Management Trust Fund item until the May 14, 2025 Titusville Environmental Commission meeting. Vice Chairwoman Thompson seconded. There was a unanimous voice vote in favor.

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Titusville Environmental Commission (TEC) By-laws

Community Development Director Brad Parrish explained to the Commission that not having a specific month designated for elections is problematic and would ask that they consider choosing a specific month to be used for elections once a year included in their By-laws.

The Titusville Environmental Commission members had discussion and decided on specifying January as the month for Election of Officers in their By-laws.

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Member Delgado made a motion to have the Titusville Environmental Commission's Election of Officers in the month of January each year to be specified in their By-laws. Vice Chairwoman Thompson seconded. There was a unanimous voice vote in favor.

XXX

New Business

Minimum Criteria for Urban Trees and Green Space: 3-30-300 Rule

Vice Chairwoman Thompson made a motion to table Minimum Criteria for Urban Trees and Green Space: 3-30-300 Rule item to the May 14, 2025 Titusville Environmental Commission meeting. Member Delgado seconded. There was a unanimous voice vote in favor.

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Petitions and Requests from Public Present

None

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Reports

Sustainability Program Coordinator Lily Galleo provided information on the Landscape Trust Funds to the Commission and said she would also send the information to them via email.

The Titusville Environmental Commission members had questions as to what the funds are used for. Community Development Director Brad Parrish read a 2001 Resolution regarding the use of the Landscape Trust Fund money being used to beautify publicly owned and publicly maintained properties.

Sustainability Program Coordinator Lily Galleo said she will be presenting the Sustainability Action Plan on Saturday April 12, 2025 at 11:00am at the Enchanted Forest.

Member Burdette said he will be attending the event at the Enchanted Forest on Saturday April 12, 2025. Member Burdette said he also participated in last Saturday's Trash Bash event.

Vice Chairwoman Thompson provided a picture handout of Scobie Park to the Commission and staff. Vice Chairwoman Thompson asked if the City of Titusville has the contract from the University of Central Florida (UCF) for this project so that it could be reviewed to see if UCF is responsible for cleaning up the trash left from the failed oyster project from Titusville's shoreline at Scobie Park.

Chairman Myjak said ULA is revamping an old launch pad in order to bring back the Atlas and start launching again. Chairman Myjak said he has concerns with water deluge and dirty water being put into the Indian River Lagoon.

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Adjournment 8:44 p.m.

DRAFT

City of Titusville
"Gateway to Nature and Space"

REPORT

To: Members of the Titusville Environmental Commission
From: Brad Parrish, Community Development Director
Subject: **Native Municipal Tree, Canopy, and Landscape Management Trust Fund**
Department/Office: Community Development

Recommended Action:

Discuss the Native Municipal Tree, Canopy, and Landscape Management Trust Fund concept.

Summary Explanation & Background:

Member Delgado made a motion to table the Native Municipal Tree, Canopy, and Landscape Management Trust Fund item until the April 9, 2025 meeting.

Alternatives:

Item Budgeted:

Source/Use of Funds/Budget Book Page:

Strategic Plan:

Strategic Plan Impact:

ATTACHMENTS:

1. Native Municipal Tree, Canopy, and Landscape Management Trust Fund (Native Landscape Trust Fund)
2. Burdette_TEC_NLFT_04.09.25
3. Res 2001

Native Municipal Tree, Canopy, and Landscape Management Trust Fund
or simply,
the Native Landscape Trust Fund

Summary

There is a growing loss of native Florida due to human development.

Our environment, the natural life-giving habitat, is being consumed by concrete, impervious surfaces and compaction. If this continues, it will squeeze “the Nature” right out of Titusville’s Motto.

So we must prepare for the future. What will our city look like? Every citizen wants professional police protection, a high-quality fire department, and the best possible administrators the city can offer. But how many people insist that the welfare of their community’s treasure of trees be entrusted to professional management?

One university study indicates that only 39 percent of our municipalities systematically care for their publicly owned trees, and fewer than 15 percent hire foresters. The result is that many of our urban forests are in trouble. Throughout America’s cities, more shade trees are dying than are being replaced. Scarce financial resources are being wasted on plantings that are doomed from the start, and life-extending practices such soil improvements, pruning and disease control are often neglected.

By contrast, communities that employ a professional to manage their trees are the big winners. In our community, native plants, trees and shrubs win big! They have lived here for thousands of years, without fertilizers, insecticides or watering (once established.) They survive drought, fire, heavy rains and all manner of bugs because natives are naturally resistant to them. These are features of our land.

Development is not likely to stop. So proper resource management should be key.

Better practices are needed –

- **Pocket Rain Gardens**
- **Structured Wetlands**
- **A Managed Urban Forest (yes, from Canopy to Mycelium, maintenance too)**
- **Employ alternative and creative stormwater practices**
- **In summary, lets do some engineering *with* nature.**

Outline of the NLTF plan

1. **Assess Mitigation fees**
2. **Assess Development Incentives using mitigation reimbursement to incentivize:**
 - **LID in any development**
 - **Contributions toward advancing Titusville's Urban Forest.**
 - **Promoting native habitats and conservation subdivision planning**
 - **Others?**
3. **Remainder of funds => a sustainable Urban Forest Management Program**
 - **Its what the Trust Fund funds with the remainder of the mitigation fees.**

➤ **Native Plant Mitigation Assessment – some considerations:**

- **Value of existing habitat and soil types**
 - Consider Environmental Value of existing Habitat(s) and Soil Types vs post development impacts
 - Consider the scenic heritage and natural beauty of Natural vs. Disturbed vs. Redeveloped lands
- **Hydrological services rendered -**
 - stormwater absorption
 - groundwater recharge
 - carbon capture
 - disturbance of the topology/mycelium
- **Endemic threatened or endangered Wildlife**
 - Can be inferred by soil/habitat type/loss
- **Nutrient load increases due to:**
 - Loss of vegetation => less transeaporation => increased stormwater
 - Introduction of fertilizers, pesticides, herbicides, or *any* chemical available for retail
 - New Sanitary Sewers means increased black water processing, potential effluent releases, and biosolid production
 - Increased freshwater flow into the estuary
- **Groundwater Resource Impacts**
 - Groundwater recharge is diminished due to impervious surface
 - Future groundwater reserves will be diminished due to this loss.
 - Increased potable water demands with population growth

Native Plant Trust Fund Incentives

- **LID Development**
 - Recovers up to 50% of mitigation fee based on post development environment
- **Vouchered Brevard County Native Plants**
 - Recovers 0-25% of the mitigation fee when planting 30% to 80%, respectively of Brevard County Native plants vouchered in the Atlas of Florida Native Plants.
- **Florida Regional Native Plants**
 - Recovers 0-12.5% of the mitigation fee when planting 30% to 80% respectively, Florida Regionally Native Plants as vouchered in the Atlas of FNP
- **Non-Native or Exotic Plants not found in the following:**
 - **Federal Noxious Weed List** managed by USDA APHIS PP
 - **Florida Noxious Weed List** by the Florida Department of Agriculture and Consumer Services (FDACS)
 - **Florida Prohibited Aquatic Plant List** currently under the jurisdiction of FDACS (according to FDACS Rule 5B-64)
 - **Florida Exotic Pest Plant Council** ([FLEPPC](#)) [Plant List](#).
 - Recovers 0% of the mitigation fee.
- **Urban Forest Management**
 - Recovers the remainder of the Native Plant Trust Fund
 - Applies to:
 - Funding a year-round Urban Forest Management Program, which
 - Pays for a full time Urban Forester
 - Reports to the Tree Board
 - Oversees Community Tree Awareness Programs
 - Ensures fund resources are spent wisely
 - Initiates and Assists Volunteer Groups
 - e.g., TGC, FNPS, Forest Friends, etc.
 - Provides valuable, localized tree care
 - Train/Supervise city crews & contractors on ordinance compliance
 - Champions Tree Plantings and preservation of existing trees throughout the City
 - Works with engineers to protect trees during highway construction and road widening
 - Provides budget for Tree Board support of Community plantings
 - Funds Tree Board Activities, workshops, plan development, etc.
 - Implements the Tree Board's Urban Forest Plan

Other Considerations?

Outline of the plan

1. Assess Mitigation fees
2. Assess Development incentives
3. Remainder of funds => Urban Forest Management Trust Fund
4. Repeat

➤ Native Plant Mitigation Fees assessment – some considerations:

- **Value of existing habitat and soil types**
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Native Plant Trust Fund Incentives

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 - Implements the Tree Board's Urban Forest Plan

Other Considerations?

Jonathan Burdette

TEC 4-09-2025 Meeting

Native Landscape Trust Fund Ideas & Implementation

These integrations echo practices from leading sustainable cities:

- **GIS Systems:** New York City actively cares for more than 800,000 mapped trees using an extensive tree mapping system for urban forest planning. It includes a classification of the kind of tree, trunk diameter, location, and assigns it a “Tree ID Number” to use for inspection/care logs. It also calculates the benefits of each tree by yearly estimates of stormwater intercepted, energy conserved, air pollutants removed, and total annual value.
<https://www.nycgovparks.org/news/press-releases?id=22036>
<https://tree-map.nycgovparks.org/tree-map>
- **Miyawaki Forests:** The UK’s Creating Tomorrow’s Forests initiative applies the Miyawaki method to establish dense, native forests rapidly. This approach plants diverse species closely together, accelerating growth and boosting biodiversity, with sites showing improved soil health, carbon sequestration, and wildlife habitats within years. Cities like Utrecht, Netherlands, also adopt this planting method for rapid greening.
<https://www.creatingtomorrowsforests.co.uk/blog/the-miyawaki-method-for-creating-forests>
- **Tree Boxes:** Philadelphia’s “Green City, Clean Waters” program uses tree boxes to manage stormwater sustainably. These systems integrate trees with engineered soil and drainage structures along streets, capturing runoff, reducing flooding, and filtering pollutants, while supporting urban tree growth and improving water quality.
<https://water.phila.gov/green-city/>
- **Public-Private Partnerships:** Singapore’s National Parks Board (NParks) fosters public-private collaborations to expand green spaces. Businesses sponsor projects like park enhancements and tree plantings, gaining visibility through signage, which funds biodiversity efforts and strengthens community ties to nature.
<https://www.nparks.gov.sg/>

For Titusville, they enhance the NLTF’s mission to preserve native ecosystems, manage stormwater, and engage the public—positioning the city as a sustainability leader.

1. GIS-Based Tree Inventory and Mapping System

Titusville Application: In Titusville, the GIS app/website system will feature tiered access: An Urban Forester (Admin) with full control; Volunteer Groups (e.g., FNPS, Forest Friends) as editors with admin approval required; and citizens with limited accounts for submitting photos, requesting tree care, or asking for mapping of private trees within city limits. Like NYC’s system, it will classify tree type, trunk diameter, and location, assigning a “Tree ID Number” for inspection/care logs, and calculate annual benefits (stormwater intercepted, energy conserved, air pollutants removed, total value). Mapping will include individual trees, whole forest areas as

single entities (based on square footage), and parks/sparsely forested areas as single entities (based upon countable trees). NLTF projects like Tree Boxes and Miyawaki Mini Forests could also be monitored. Implementation starts with newly planted trees, expands to city-owned trees and parks (public land), and lastly includes private land upon homeowner request. *Additionally, mapping private trees can support a citizen stormwater discount program—proposed by a TEC member—where residents granting yard access for tree mapping enable estimates of stormwater absorption (via calculated benefits), informing tailored discounts on stormwater fees to incentivize green infrastructure like trees and rain gardens.*

Integration Opportunity:

This system fits naturally into the "Urban Forest Management" section of the NLTF (Pages 76 and 78), where funding supports a year-round program with a full-time Urban Forester overseeing tree care, community awareness, and resource allocation. It aligns with Sustainability Action Plan (SAP) 2.1.1: "Manage a database of natural resources and collaborate with local agencies to promote environmental stewardship".

HOW TO INTEGRATE

- **Enhance Existing Text:** Add to the "Urban Forest Management" bullet points under "Applies to" (Page 76):
 - "Develops and maintains a GIS-Based Tree Inventory and Mapping System to track tree locations, health, and planting needs, using crowd-sourced data via a mobile app, supplemented by City GIS team and Urban Forester-verified updates."
- **Tie to Incentives:** Under "Native Plant Trust Fund Incentives" (Pages 76 and 78), include a new incentive:
 - "Community Tree Mapping Participation: Residents or developers logging trees into the GIS system can recover 5-10% of mitigation fees, encouraging public involvement in canopy expansion."
- **Strategic Fit:** Supports professional management (Page 74) and better resource allocation via precise data. Leverages existing City GIS team capabilities (titusville.maps.arcgis.com).

Stakeholders & Roles:

- Responsible: City GIS Team (data management), Urban Forester (verifies data).
- Oversight: Titusville Environmental Commission (TEC) conducts annual reviews.
- Informed: Public Works, local nurseries (e.g., Titusville Tree Farm).
- Checks & Balances: TEC and GIS Team audit data annually to ensure accuracy beyond 2025.

IMPACT: Modernizes NLTF, ensuring reliable data for decision-making (SAP 2.1.1). Addresses aging data concerns with forester oversight and TEC audits, fostering community engagement.

2. Miyawaki Mini Forests for Urban Green Spaces

Titusville Application: In Titusville, Miyawaki Mini Forests can be a key tool in the Green Building Toolkit (SAP 6.1.2), promoting sustainable development. Site selection will rely on the Urban Forestry Plan and a Natural Resources Database (e.g., GIS Tree Map) to identify priority areas: those with high stormwater runoff to absorb excess phosphorus, nitrogen (from fertilizers, pet waste, yard debris), and other pollutants, as well as vacant lots, unused city-owned land,

and roadside buffers. Partners like Titusville Tree Farm and local nurseries can supply middle-aged trees not sold as saplings, relocated by volunteers and gardeners, reducing costs and waste. These forests can be tracked via the GIS system for growth and environmental impact. Additional applications include enhancing Titusville's Indian River Lagoon watershed by reducing nutrient loads into this impaired estuary, and creating educational mini forests at schools or parks (SAP 2.4.3), showcasing native species like live oak and sabal palm to residents and visitors near the Kennedy Space Center.

Integration Opportunity:

The Miyawaki method complements the document's focus on native plants and habitat restoration (Pages 74-75) and its call for "Pocket Rain Gardens" and "A Managed Urban Forest" (Page 74). It aligns with SAP 6.1.2 (Green Building Toolkit), 6.1.3 (green standards), and 2.4.3 (native plant education sites).

HOW TO INTEGRATE

- **Add to Practices:** In the "Better practices are needed" section (Page 74), include:
 - "Miyawaki Mini Forests: Rapidly restore native tree cover in small urban spaces using dense, diverse native plantings, targeting low-canopy, high-runoff areas identified via GIS."
- **Funding Allocation:** Under "Remainder of funds => a sustainable Urban Forest Management Program" (Page 75), specify:
 - "Funds the creation of Miyawaki Mini Forests in vacant lots, roadside buffers, and parks, using Titusville Tree Farm stock, with maintenance via partnerships."
- **Incentive Boost:** In "Native Plant Trust Fund Incentives" (Page 76), adjust the "Vouchered Brevard County Native Plants" bullet:
 - "Recovers 0-30% of the mitigation fee when planting 30% to 80% Brevard County native plants, with an additional 5% bonus for Miyawaki-style mini forest projects."

Stakeholders & Roles:

- Responsible: Urban Forester (site selection), Titusville Tree Farm (plant supply).
- Managers: Volunteer groups (e.g., FNPS, Forest Friends).
- Oversight: TEC ensures alignment with Urban Forestry Plan.
- Checks & Balances: Public Works monitors maintenance costs annually.

IMPACT: Quickly restores ecosystems, addressing stormwater and carbon capture (Page 75). Supports SAP goals with low-maintenance native species.

3. Tree Boxes for Stormwater Management

Titusville Application: In Titusville, Tree Boxes build on Public Works' existing bioretention projects for stormwater runoff management ([titusville.com/322/Indian-River-Lagoon-Stormwater-Projects](https://www.titusville.com/322/Indian-River-Lagoon-Stormwater-Projects)). Tree Boxes, a specific type of bioretention practice, are vegetated, engineered systems designed to filter or infiltrate stormwater runoff, adaptable to urban and ultra-urban landscapes like streets, sidewalks, and parking lots. Integrating native trees into these systems leverages existing site elements—trees and soils—to reduce nutrient loads (phosphorus, nitrogen) into the Indian River Lagoon, a critical local waterway. These projects can be monitored via the GIS Tree Map, tracking tree health, runoff reduction, and water quality

improvements. Additional applications include retrofitting high-traffic areas near the Space Coast Regional Airport and Titusville’s historic downtown to mitigate urban heat islands, and pairing Tree Boxes with new developments along the U.S. 1 corridor to meet green infrastructure goals while enhancing aesthetics for tourists visiting the Kennedy Space Center area.

Integration Opportunity:

Tree Boxes enhance the "Pocket Rain Gardens" and "Structured Wetlands" concepts (Page 74) and tie into hydrological services like stormwater absorption (Pages 75, 77).

HOW TO INTEGRATE

- **Expand Practices:** In the "Better practices are needed" list (Page 74), add:
 - "Tree Boxes: Engineered systems combining native trees with underground soil and water retention to capture and filter stormwater runoff, improving water quality and tree health."
- **Incentive Inclusion:** Under "Native Plant Trust Fund Incentives" (Page 76), add a new category:
 - "Tree Box Implementation: Recovers up to 40% of mitigation fees for developments incorporating tree boxes with deep-rooted native species, reducing runoff and enhancing groundwater recharge."
- **Forester Role:** In "Urban Forest Management" (Page 76), include under the Urban Forester’s duties:
 - "Coordinates with Public Works to design and oversee Tree Box projects."

Stakeholders & Roles:

- Responsible: Public Works (installation), Urban Forester (tree selection).
- Oversight: TEC tracks water quality impacts.
- Checks & Balances: Public Works audits runoff reduction annually.

IMPACT: Offers a scalable stormwater solution (Page 74), enhancing existing bioretention efforts and supporting the Water Resources Plan.

4. Public-Private Partnerships and Sponsorships

Titusville Application: In Titusville, this model can tap into the city’s robust space industry—home to companies like Lockheed Martin, Boeing, and SpaceX near the Kennedy Space Center. These firms could sponsor NLTF projects (e.g., Miyawaki Mini Forests along U.S. 1, Tree Boxes near space facilities) with signage like “This forest is sponsored by SpaceX,” boosting their eco-friendly image while funding stormwater and habitat initiatives. Developers and builders, key to Titusville’s growth, can also participate—partnering with sponsors or directly funding green infrastructure in new subdivisions (e.g., Tree Boxes along streets) to offset mitigation fees and ensure responsible development that preserves natural resources. Additional applications include partnering with tourism-focused businesses (e.g., hotels, restaurants) to sponsor pocket parks or tree plantings near downtown or the Space Coast Regional Airport, enhancing visitor appeal and aligning with Titusville’s “Gateway to Nature and Space” motto. Sponsorships could also fund educational signage in parks, tracked via the GIS Tree Map, promoting space-tech innovation alongside environmental stewardship.

Integration Opportunity:

Bolsters funding beyond mitigation fees (Pages 75, 77), fits under "Other Considerations?" (Pages 76, 78), and supports SAP's community engagement goals.

HOW TO INTEGRATE

- **New Section:** Add under "Other Considerations?" (Page 76):
 - "Public-Private Partnerships and Sponsorships: Encourage businesses to fund green infrastructure projects (e.g., mini forests, tree boxes, pocket parks) in exchange for branding opportunities, such as signage reading, 'This green space is sponsored by [Company Name].' Proceeds supplement NLTF resources."
- **Forester Oversight:** In "Urban Forest Management" (Page 76), add to the Urban Forester's role:
 - "Coordinates with private sponsors to implement and maintain funded projects, with TEC oversight."
- **Incentive Tie-In:** Under "Assess Development Incentives" (Page 75), include:
 - "Corporate Sponsorship Credits: Developers partnering with businesses for sponsorships can recover 10-20% of mitigation fees, promoting collaborative investment."

Stakeholders & Roles:

- Responsible: Urban Forester (project lead), Businesses (funders).
- Oversight: TEC ensures alignment with NLTF goals.
- Checks & Balances: Finance Dept. tracks sponsorship revenue.

IMPACT: Addresses funding gaps (Page 74), leveraging Titusville's space industry ties for recurring revenue.

Revised Outline with Integrations

Here's how the NLTF's "Outline of the plan" (Page 77) could look with these additions:

1. **Assess Mitigation Fees**
 - Incorporate GIS data on tree inventories to refine fee assessments based on canopy coverage and runoff potential.
2. **Assess Development Incentives**
 - Add GIS participation, Miyawaki mini forests, tree boxes, and sponsorship credits to the incentive structure.
3. **Remainder of Funds => Urban Forest Management Trust Fund**
 - Fund GIS system development, Miyawaki planting projects, tree box installations, and partnership coordination.
4. **Repeat**
 - Use GIS data and TEC audits to evaluate outcomes and adjust strategies annually.

****Funding Sustainability**

Per Code Sec. 30-34, mitigation fees are one-time. To support ongoing costs:

- Recurring Revenue: Business sponsorships and grants (e.g., Florida DEP).
- Fee Adjustment: Propose amending Sec. 30-34 for annual maintenance assessments (Council approval needed).
- Efficiency: Prioritize low-maintenance natives and volunteers.

****Alignment with Adopted Plans**

- GIS: SAP 2.1.1 (natural resources database).
- Miyawaki: SAP 6.1.2, 6.1.3, 2.4.3 (green building, native education).
- Tree Boxes: Water Resources Plan, Public Works stormwater efforts.
- Partnerships: SAP community engagement goals.

RESOLUTION NO. 30-2001

A RESOLUTION OF THE CITY OF TITUSVILLE, FLORIDA IMPLEMENTING A PUBLIC LANDSCAPE TRUST FUND USING REVENUES OBTAINED FROM TREE MITIGATION EFFORTS, AND USING SAID FUNDS FOR BEAUTIFICATION EFFORTS ON PUBLICLY-OWNED OR PUBLICLY-MAINTAINED PROPERTY, AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the City of Titusville currently has established a fund for tree mitigation efforts, entitled "Tree Mitigation Plan", and

WHEREAS, Section 35-4 of the *Land Development Regulations*, establishes a Public Landscape Trust Fund, and

WHEREAS, revenues are received as a result of tree mitigation efforts under said Section of the *Land Development Regulations*, and

WHEREAS, the City desires to beautify public properties by landscaping said properties and to create a pleasing and well-maintained esthetic atmosphere for the publicly-owned or publicly-maintained properties, and

WHEREAS, the City desires to utilize such funds to further these beautification efforts, and

WHEREAS, the City Council of the City of Titusville, Florida deems it wise, necessary and expedient that said funds be used for such purposes, and

WHEREAS, the City Council of the City of Titusville, Florida determines that the proposed projects shall be in compliance with applicable codes and regulations.

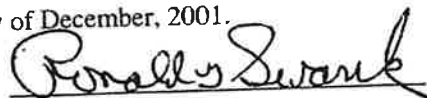
NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Titusville, Florida, as follows:

Section 1: The fund currently named Tree Mitigation Plan in the current year's budget, be renamed the "Public Landscape Trust Fund".

Section 2: That all funds received in accordance with Section 35-4 of the *Land Development Regulations* be used to beautify publicly-owned or publicly-maintained property.

Section 3: This resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED this 11th day of December, 2001.


Ronald G. Swank, Mayor

ATTEST:


Karan J. Rounsavall, City Clerk



City of Titusville
"Gateway to Nature and Space"

REPORT

To: Members of the Titusville Environmental Commission
From: Brad Parrish, Community Development Director
Subject: **TEC By-laws**
Department/Office: Planning

Recommended Action:

Discuss the amendment and vote.

Summary Explanation & Background:

At the April meeting Member Delgado made a motion to have the Titusville Environmental Commission's Election of Officers in the month of January each year to be specified in their By-laws. Vice Chairwoman Thompson seconded. There was a unanimous voice vote in favor.

Alternatives:

Item Budgeted:

Source/Use of Funds/Budget Book Page:

Strategic Plan:

Strategic Plan Impact:

ATTACHMENTS:

1. TEC Bylaws Current Proposed 05-14-2025 Voting Amendment

By-Laws
Of
The Titusville Environmental Commission

Article I. Duties and Powers

The duties and powers of the Titusville Environmental Commission shall be those set forth in Section 31-121, Land Development Regulations, of the City of Titusville, as amended April 27, 1999.

Article II. Membership

Any member of the Commission who fails to attend three or more consecutive regular meetings (not including special or workshop meetings) shall automatically forfeit membership in the Commission and the Chairman shall so inform the City Council. Any member of the Commission who fails to attend more than fifty percent (50%) of the regular, special or workshop meetings of the Commission within a six (6) month period shall automatically forfeit membership on the Commission and the Chairman shall so inform the City Council. Upon the approval of the City Council, the Council may authorize a member to miss more than three (3) consecutive meetings or more than fifty percent (50%) of the regular, special or workshop meetings during a six (6) month period. All members shall abide by the Standards of Conduct set forth in Article III, Sections 2-51 and 2-53 of the Code of Ordinances.

Membership shall be in accord with the provisions of Section 31-122, Land Development Regulations, City of Titusville.

Article III. Officers and their Duties

A Chairman, who shall preside at all meetings and public hearings and shall have other duties as further prescribed in these By-laws.

A Vice-Chairman, who shall, in the absence of the Chairman or his inability to act, have the powers to function in the same capacity as the Chairman.

In the absence of the Chairman and Vice Chairman, the most senior regular member present shall preside over the meeting where a quorum is present.

Article IV. Election of Officers and Vacancies

In accordance with Section 31-122, Land Development Regulations of the City of Titusville, the Chairman and Vice-Chairman shall be elected by the Commission from its membership. Terms of office shall be for one (1) year. Elections shall be held annually at the regular meeting in ~~November~~ January. The Commission shall, from its membership, fill any vacancy in these offices by election.

Article V. Meetings

Section 1. Regular Titusville Environmental Commission meetings shall be held on the Wednesday following the second Tuesday of each month at 5:30p.m in the City Council Chambers. Any regular meeting may be adjourned to a definite date and time as established by four (4) concurring votes of Commission members.

Section 2. Adjourned, called, or special meetings may be held at any time, as required, subject to the call of the Chairman, or in his absence, by the Vice-Chairman. Upon written request of four (4) members, a special called meeting shall be held by the Chairman, or in his absence, by the Vice- Chairman, or in his absence, the most senior regular member shall have the authority to call a special meeting.

Section 3. Each member shall be notified of the date and time of each meeting by written notice or by telephone at least one week prior to the meeting. In cases where a meeting is cancelled, Commission members shall be notified at least 24 hours prior to the scheduled meeting.

Section 4. All meetings shall be open to the public. All agendas for the present meeting shall be posted on the bulletin board in the City Hall lobby.

Article VI. Quorum

As set forth in Section 31-123 (b), Land Development Regulations, four (4) members shall constitute a quorum; and concurring vote of at least four (4) members shall be required to pass on any matter.

Article VII. Voting

Section 1. Voting on all matters of business shall be by roll call or general consent. However, if the Commission is to make a recommendation to City Council, or other boards and commissions, the vote will be by roll call with the Recording Secretary recording the vote of each member in rotating order. The first roll call vote will begin with the Chairman followed by the Vice- Chairman, followed by the members (in alphabetical order) and rotating the order for each roll call vote following.

Section 2. No member present shall abstain from voting unless it is established that such member has a conflict of interest in the matter being voted upon.

Article VIII. Alternate Members

The alternate members may serve on the commission in lieu of a regular member when said regular member is unable to attend an official meeting of the commission; or, when a regular member has a conflict of interest on any item, said alternate member shall serve for the entire meeting or for the particular item that is the subject matter of the said conflict. The Chairman shall designate which alternate

member shall serve. Alternate members may serve on standing or special committees.

Article IX. Order of Business

Section 1. At regular meetings, the general order of business shall be as follows:

1. Call to order;
2. Roll call;
3. Determination of a quorum;
4. Pledge of Allegiance
5. Approval of minutes;
6. Petitions and requests from the public present (non-agenda items)
7. Old Business;
8. New Business;
9. Petitions and requests from the public present
10. Reports;
11. Future Agenda Items; and
12. Adjournment

Section 2. In order to provide an opportunity for discussion of business before the Commission, prior to the making of a motion the Chairman shall state the matter of business and then provide a period of discussion of the relevant facts. After a motion is made and seconded, the Chairman may ask for additional discussion prior to the vote.

Section 3. Citizens having business before the Commission shall be invited to speak immediately prior to discussion by the Commission on the matter with which they are concerned. If in the opinion of the Chairman time limitations are necessary in order to complete the agenda, the Chairman may place time limits for each speaker.

Section 4. The first and second petitions and requests from the public present will be an open forum. Citizens desiring to be heard under petitions and requests from the public present shall be limited to five (5) minutes unless extended by a majority vote of the commission.

Section 5. The order of business for called or special meeting shall be as follows:

1. Call to order;
2. Roll call;
3. Determination of a quorum;
4. Business that is the subject of the meeting; and
5. Adjournment;

Article X. Minutes

Minutes of all meetings shall be recorded by the Recording Secretary or designated representative; certified by the Recording Secretary after approval by the Commission; and become a public record of the proceedings of the meeting.

Article XII. Committees

The Chairman may appoint such committees as deemed necessary from time to time. The chairman shall be an ex-officio member on all committees but shall have no vote on the committee, unless he is an active member of that committee.

Article XII. Hearings

The Titusville Environmental Commission may hold public hearings when deemed expedient and necessary. Notice of such hearings shall be in accordance with the provisions of the City Charter and Code of Ordinances of the City of Titusville.

Article XIII. Parliamentary Authority and Organization Procedure

The rules contained in the latest available edition of Roberts Rules of Order are hereby adopted by the reference and shall apply at all meetings of the Commission and its committees, to the extent that such rules are not in conflict with these By-laws.

Article XIV. Correspondence and Communications

Section 1. Official communications of the Commission to the City Council shall be in writing. All original records, recommendations and reports shall be kept in the Commission files in City Hall.

Section 2. Any correspondence, notices (other than administrative procedures), communications, reports, studies, and plans originating from the Commission shall be authorized by the Commission members and signed by the Chairman.

Article XV. Amendment

Amendment to these By-laws must be presented for discussion, in writing, at one meeting and voted upon at the next meeting

City of Titusville
"Gateway to Nature and Space"

REPORT

To: Members of the Titusville Environmental Commission
From:
Subject: Minimum criteria for urban trees and green space: 3-30-300 Rule.
Department/Office: Planning

Recommended Action:

Discuss the rule. No action.

Summary Explanation & Background:

Vice Chairwoman Thompson said she really likes the 3-30-300 Rule that Ms. St. Onge provided and likes the recommendations that it makes. Chairman Myjak said that he would like for the 3-30-300 Rule be on the April 9, 2025 agenda for discussion.

The rule sets three minimum criteria for urban trees and green space:

- At least 3 trees in sight from every home, school, and workplace
- At least 30% tree canopy in every neighborhood
- No more than 300 meters between every home and the nearest park or green space

At the April meeting Vice Chairwoman Thompson made a motion to table Minimum Criteria for Urban Trees and Green Space: 3-30-300 Rule item to the May 14, 2025 Titusville Environmental Commission meeting. Member Delgado seconded. There was a unanimous voice vote in favor.

Alternatives:

Item Budgeted:


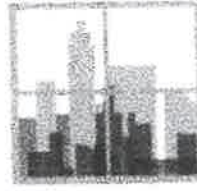


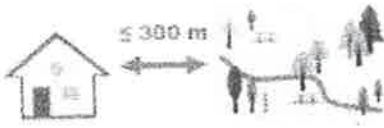

Source/Use of Funds/Budget Book Page:

Strategic Plan:

Strategic Plan Impact:

ATTACHMENTS:

1. 3-30-300

3	 Trees visible ≥ 3	 Trees visible < 3
30	 Canopy coverage $\geq 30\%$	 Canopy coverage $< 30\%$
300	 From green space ≤ 300 m Met	 From green space > 300 m Not met

3-30-300 recommends that everyone should be able to see at least 3 trees from their residence, workplace, or place of learning; have at least 30% tree canopy cover in their neighborhood; and live within 300-m of a high-quality public green space (at least 0.5 ha in size) (Konijnendijk, 2021)

Kay St. Orge
 March 12, 2025
 Item 7A.

City of Titusville
"Gateway to Nature and Space"

REPORT

To: Members of the Titusville Environmental Commission
From:
Subject: **Staff Updates**
Department/Office: Planning

Recommended Action:

Summary Explanation & Background:

- Natural Resources Public Engagement was adopted by Council at their April 22nd Regular Meeting
- Annual Sustainability Report Delivered to Council at April 22nd Meeting
<https://youtu.be/DNDDGa398Js?t=2275>
- Added Pollution Notice Sign Ups and IRL Monitoring to [Programs and Resource](#)

Alternatives:

Item Budgeted:

Source/Use of Funds/Budget Book Page:

Strategic Plan:

Strategic Plan Impact:

ATTACHMENTS:

None