



AGENDA

TOWN OF FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION

REGULAR MEETING

October 6, 2020

**FLOWER MOUND TOWN HALL
2121 CROSS TIMBERS ROAD
FLOWER MOUND, TEXAS**

6:30 P.M.

**AN AGENDA INFORMATION PACKET IS AVAILABLE ONLINE AT
[HTTPS://TX-FLOWERMOUND.CIVICPLUS.COM/AGENDACENTER](https://tx-flowermound.civicplus.com/agendacenter)**

**There will be limited seating in Jody Smith Hall to allow for social distancing
Meeting participants may be asked to wait in the lobby until their name is called
Comments regarding any item on this agenda can be sent to the Commission Members
by**

Emailing: ECC@flower-mound.com or Calling: 972.874.6005

- A. CALL REGULAR MEETING TO ORDER – 6:30 PM**
- B. ELECTION OF CHAIR AND VICE CHAIR**
- C. INVOCATION AND PLEDGE OF ALLEGIANCE**
- D. PUBLIC COMMENT**

Please fill out an “Appearance Before Environmental Conservation Commission” form in order to address the Environmental Conservation Commission and turn the form in prior to Citizens and Visitors Comments, or by 6:40 p.m. to the Town staff. Speakers are normally limited to three minutes. Time limits can be adjusted by the Chair as to accommodate more or fewer speakers.

- E. STAFF REPORT**

Update and status report related to environmental issues and events, regulatory activities, and projects.

- F. CONSENT AGENDA - CONSENT ITEMS**

Environmental Conservation Commission Meeting Agenda

October 6, 2020

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This agenda consists of non-controversial or "housekeeping" items and may be approved with a single motion. A member of the Environmental Conservation Commission may request an item(s) be withdrawn from the consent agenda and moved to regular agenda for discussion by making such request prior to a motion and vote on the Consent Agenda.

1. Consider approval of minutes from the special meeting of the Environmental Conservation Commission held on September 1, 2020.

G. SUBCOMMITTEE REPORT

Receive updates and status reports related to subcommittee tasks, activities, and projects.

H. ADJOURNMENT - REGULAR SESSION

I. CALL WORK SESSION TO ORDER

J. WORK SESSION ITEMS

2. Review and discuss the sustainability initiatives.

K. COORDINATION OF FUTURE AGENDAS/MEETINGS

L. ADJOURNMENT- WORK SESSION



Matthew Woods
Director of Environmental Services

I do hereby certify that the Notice of Meeting was posted on the bulletin board in Town Hall of the Town of Flower Mound, Texas, a place convenient and readily accessible to the general public at all times and said Notice was posted on the following date and time: October 2, 2020, by 5:00 p.m., at least 72 hours prior to the schedule time of said meeting.



Helena Lynch
Administrative Assistant



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 1

CONSENT ITEM

DATE: October 6, 2020

FROM: Helena Lynch, Administrative Assistant

ITEM: Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on September 1, 2020.

BACKGROUND INFORMATION: This agenda item is to consider approval of the minutes from the September 1, 2020, regular meeting of the Environmental Conservation Commission.

CITIZEN FEEDBACK: N/A

ALTERNATIVES/OPTIONS: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. A copy of the draft minutes from the September 1, 2020, regular meeting of the Environmental Conservation Commission.

RECOMMENDATION: Move to approve the minutes from the September 1, 2020, regular meeting of the Environmental Conservation Commission.

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF SEPTEMBER 1, 2020

THE FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING HELD ON THE 1ST DAY OF SEPTEMBER 2020, IN THE FLOWER MOUND TOWN HALL, LOCATED AT 2121 CROSS TIMBERS ROAD IN THE TOWN OF FLOWER MOUND, COUNTY OF DENTON, TEXAS, AT 6:30 PM.

The Environmental Conservation Commission met in regular session, with the following members present constituting a quorum:

James Seastrom	Chair
James Naylor	Vice Chair
Russell McNamer	Commission Member, Place 3
Marilyn Lawson	Commission Member, Place 4
Thomas Bailey	Commission Member, Place 6
Deanna Soper	Commission Member, Place 7
Elaine Takacs	Commission Member, Place 8- Alt
Anna Athappan	Commission Member, Place 9- Alt
Kathryn Wells	Commission Member, Place 10- Alt

Places 8, 9, and 10 of the Commission do not vote on items unless they sit in place of one of the regular members, Places 1-7.)

Constituting a quorum with the following members absent:

Alton Bowman	Commission Member, Place 5
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And the following members of Town staff present:

Matthew Woods	Director of Environmental Services
Helena Lynch	Administrative Assistant
James Hoefert	Environmental Review Analyst
Tyler Leverenz	Environmental Programs Coordinator

CALL TO ORDER - REGULAR SESSION: 6:30 PM

A. INVOCATION AND PLEDGE OF ALLEGIANCE

B. PUBLIC COMMENT

None.

C. STAFF REPORT

Update and status report related to environmental issues and events, regulatory activities, and projects.

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF SEPTEMBER 1, 2020

D. PRESENTATION

Receive a presentation from the Upper Trinity Regional Water District related to irrigation system checkups, the Water My Yard program, and their conservation trust.

- Upper Trinity Regional Water District daily treated water demand
- Education & outreach are vital- watermyyard.org provides weekly watering recommendation
- 2019 Watering Recommendations
- New water my yard app
- Water efficient lawn and garden care for North Texas
- Irrigation Inefficiency & Waste
- Irrigation system evaluations-2019
- Wait... there's more!
- Survey says...

- Upper Trinity Conservation Trust
- North Texas Watersheds
- Why use a conservation easement?
- Landowner education & outreach
- Water quality protection
- Greenbelt
- Denton County Greenbelt Plan
- Entities who have adopted
- Flower Mound partnership

E. CONSENT AGENDA

1.Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on August 4, 2020.

Commission Deliberation

Commission Member McNamer made a motion to approve the August 4, 2020, minutes as presented. Commission Member Naylor seconded the motion.

VOTE ON THE MOTION

AYES: McNamer, Lawson, Naylor, Bailey, Soper, Takacs

NAYS: None

ABSTAIN: None

The motion passed with a vote of 6-0

F. SUBCOMMITTEE REPORT

Receive updates and status reports related to subcommittee activities and establish subcommittees as necessary.

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF SEPTEMBER 1, 2020

G. ADJOURNMENT – REGULAR SESSION 7:48 PM

H. CALL WORK SESSION TO ORDER 7:48 PM

I. WORK SESSION ITEMS

2. Review and discuss research conducted by the tree preservation subcommittee relative to specimen tree designations.

Presentation by Commission Member Deanna Soper

- Tree size analysis
- Would reducing the caliper inch for specimen tree thresholds significantly increase protection of specimen tree species especially post oak?
- Methods
- Landuse Map
- Graph structure
- Land use map
- Trailwood Phase 2
- Lakeside Crossing
- Cedar Elms at Lakeside Crossing
- Post Oaks at Lakeside Crossing
- The Lakes- Species Composition
- The Lakes- Post Oaks
- Bradford Park
- American Elm- Bradford Park
- Pecan – Bradford Park
- Post Oak- Bradford Park
- Town Lake
- Cedar elms- Town lake
- Post Oaks-Town Lake
- Blackjack Oak- Town Lake
- Summary of Data- Most Dominant Tree Species
- What does this mean?
- Demographic of Texas counties 2010-2050
- Some things to consider
- What about pushback?
- City, protection, and mitigation chart
- Conclusion

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF SEPTEMBER 1, 2020

J. COORDINATION OF FUTURE AGENDAS/ MEETINGS

K. ADJOURNMENT-WORK SESSION – 8:43PM

TOWN OF FLOWER MOUND, TEXAS

JAMES SEASTROM, CHAIR

ATTEST:

HELENA LYNCH, ADMINISTRATIVE ASSISTANT



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 2

WORK SESSION ITEM

DATE: October 6, 2020

FROM: Tyler Leverenz, Environmental Programs Coordinator

ITEM: Review and discuss the sustainability initiatives.

BACKGROUND INFORMATION: This work session item provides the ECC the opportunity to review the current sustainability initiatives and reprioritize initiatives for 2021, if necessary. Staff will provide the Commission with the current status report for the following prioritized list of initiatives.

- 1. Evaluate options to enhance Town-wide recycling and waste management practices; including LISD and multifamily options** – The ECC members have recognized that the Town's recycling efforts recently have been effective for single-family residential recycling rates; however, the members identified that the commercial, educational/LISD, and multi-family properties either do not have the same options or there may be some limiting factors that affect their ability to recycle. ECC members indicated a desire to initiate a review and an assessment of multi-family recycling options. In addition, ECC members indicated a desire to add green waste diversion to the Republic Services contract as part of this initiative.

*Status: **Ongoing.** A waste and recycling services contract was approved with Republic Services and the recycling subcommittee was formed to discuss recycling options in Flower Mound. Through a partnership with Living Earth, residents have a green waste drop off diversion option and the Town has begun diverting a portion of landscape debris for composting.*

- 2. Open Space Plan** – The ECC formed an Open Space Subcommittee to evaluate the ECC's role relative to the Open Space Plan and implement appropriate measures to promote and update the plan if necessary. The subcommittee held four meetings and conducted a thorough review of the plan and the open space brochure. The subcommittee completed recommended amendments to the brochure.

*Status: **Completed.** The subcommittee provided recommendations for updates to the open space brochure which were approved and updated to the Town's webpage.*

- 3. Enhance Stormwater Management Program (SWMP) educational material** – Enhancing the current educational and promotional aspects of the Town's Stormwater Management Program (SWMP) would help meet the objectives within the five-year SWMP. This initiative results in additional resources being dedicated to creating FMTV spots and webpage updates, educational programs and presentations, and an increase in the amount of information disseminated through utility bill inserts and other formats for stormwater-related education.

*Status: **Ongoing.** Stormwater educational items have included the second grade environmental education program, seventh grade watershed education program, fall and spring trash off and environmental fairs, FMTV spots, Stream Team promotion, and utility bill inserts. A Staff member was Stream Team Teacher Certified and conducted Stream Team Classes in Flower Mound at the end of 2018. Training will again be required in 2020/2021. An update on the Denton County Greenbelt plan was provide to the ECC by the Upper Trinity River Water District on September 1, 2020.*

- 4. Promote and conduct environmental classes and programs** – The ECC would be actively involved with this initiative to increase the number of educational classes held at the Library, schools, and at other appropriate sites within the Town. Town resources would also be utilized to promote and conduct additional environmental programs and educational classes.

*Status: **Ongoing.** Education programs in 2019 and 2020 have included an Arbor Day Celebration and Arboretum dedication, an Earth Day celebration, the spring/fall 2nd grade Environmental Education Program, fall 7th grade watershed education program, and a Master Composter training class held by Keep Flower Mound Beautiful. Educational videos have been created in response to Covid-19 restrictions. Additionally, the Outdoor Learning Area Subcommittee was formed to evaluate options for access to the OLA and a third party engineering firm is evaluating floodplain, access points, bridge options, and potential costs.*

5. **Promote and adopt enhanced drought tolerant landscaping practices at Town facilities** – This initiative incorporates a drought tolerant landscaping standard for new Town projects and requires the inclusion of drought tolerant landscaping options during the project review process. In addition to new projects, it is proposed that landscaping revisions to existing Town facilities include drought tolerant landscaping components when landscaping is replaced. Promotion and education of drought tolerant landscaping is an additional component of this initiative. The Town has included such practices at the Senior Center, Operations and Maintenance Facility, and Town Hall, so this initiative would be improving upon or enhancing a recent practice.

*Status: **Ongoing.** The proposed landscaping list was recommended for approval by ECC and has been initiated and ongoing for Town projects. Phase I of a three phase butterfly garden has been planted at Town Hall with Phase II planned for October 2020. Interpretive signage has been added to the Monarch Waystation at Green Acres Farm Memorial Park. New drought tolerant landscaping added to 1171 medians in late 2019.*

6. **Establish an Arboretum** – ECC added this initiative in 2018 to evaluate the potential addition and location of an Arboretum. Establishing the Arboretum has been an addition to the Town's educational initiatives related to trees.

*Status: **Complete.** The new Arboretum was established and dedicated on Arbor Day 2019 at Glenwick and Westchester Parks. Additional tree to be added for Arbor Day 2020.*

7. **Energy conservation** – This initiative includes implementing energy saving practices at Town facilities and potentially utilizing recommendations from a prior energy audit and potential future energy audits. The previously recommended implementation of LEED guided design principles for new Town facilities or enhancements for existing Town facilities may also be included within this initiative.

*Status: **Ongoing.** Initial audit completed, future audits and implementation depend on the budget.*

8. **Conduct a Town-wide tree canopy analysis** – The tree canopy analysis enables the ECC and staff to compare the approximate Town-wide canopy growth or loss over time and review policies and practices related to canopy protection and growth. The Town purchased Feature Analyst software to more effectively assess the Town's canopy. The most recent assessment utilizing the 2018 National Agriculture Imagery Program (NAIP) data resulted in approximate Town-wide canopy coverage of 23.6%.

*Status: **Ongoing.** Completed 2018 aerial data analysis. Ongoing initiative on a proposed two-year cycle with the next assessment scheduled for 2021 based on 2020 data.*

ALTERNATIVES/OPTIONS:

N/A

ATTACHMENTS:

1. Sustainability Initiatives

RECOMMENDATION: This item is for discussion purposes; therefore, no formal action is required.

ECC Sustainability Initiatives 2020/2021

MISSION STATEMENT: To promote responsible environmental stewardship by adopting policies and procedures that will enhance our quality of life and benefit our future communities while preserving our heritage.

Priority Rank	Initiative	Performance Measure	ECC	Notes
1	Evaluate options to enhance Town-wide recycling; including LISD and multifamily options	○ Town-wide Recycling - Multi-family recycling option assessment ○ Waste Reduction at Town facilities ○ Green Waste option review	Marilyn Lawson & Jim Seastrom & Elaine Takacs	The Town approved the new waste/recycling services contract with Republic Services; effective 10/1/16. Recycling options can continue to be evaluated. An update from Republic was presented at the 2/5/2019 ECC meeting. Recycling (Sustainability) Subcommittee formed to discuss and review recycling options in Flower Mound. Seeking external member to join committee. The ECC discussed a desire to review options to add green waste diversion to the next Republic contract & assess multi-family recycling options.
2	Open Space	☑ Update Open Space Informational Packet	Jim Seastrom, Elaine Takacs	Implement an open space public education and information program that will educate landowners, realtors, developers, and residents about the Town Open Space Plan. *Open space plan updated and an online version was created
3	Enhance Stormwater Management Program educational material	○ Conduct Stormwater and Stream Team classes at the Library ○ Watershed Protection Education ○ Create FMTV spots, use social media, distribute educational material	James Naylor	Stream Team training conducted March 2019; new training will be required for 2020/2021 Denton County Greenbelt Plan: Update provided by the UTRWD to the ECC at the 9/1/2020 meeting (currently on hold) Ongoing initiative through the SWMP. Stormwater educational items have included the second grade environmental education program, fall and spring trash off and environmental fairs, FMTV spots, utility bill inserts, and the new seventh grade stormwater/watershed education program.
4	Promote and conduct environmental classes and programs	○ Utilize Town resources to promote and conduct more environmental programs ○ Utilize New Tree Farm to conduct educational programs ○ Utilize the Outdoor Learning Area (OLA) for educational events/programs ○ Mayors' Monarch Pledge Yearly Report	Kathryn Wells, Marilyn Lawson, Jim Seastrom, James Naylor, Anna Athappan	Opportunities for new classes/programs include expanding environmental education to 7th grade curriculum, High School curriculum, and other areas of ECC member interest for classes and community programs. Upcoming classes at the library include; ULandscapIT: Water Efficient Landscape Design – Monday, September 10, 6:30-8:30 p.m. and Water U Doing? Water Efficient Sprinklers – Monday, September 24, 6:30-8:30 p.m. Tentatively host Arbor Day on Saturday, November 7, 2020 at the Arboretum and also give away 50 trees at Heritage Park. Try to hold ENV education programs at the new tree farm in the near future. Outdoor Learning Area Subcommittee (James Naylor, Jim Seastrom, Anna Athappan) formed to evaluate access options to utilize the area. A third party engineering firm is evaluating the floodplain, access points, bridge options, and potential costs. Preliminary evaluation found one potential access point; further study required for low water crossing option vs spanning the floodplain. Mayors' Monarch Pledge was approved by the Mayor at the TC & ECC Joint Work session on Feb. 16, 2017. This pledge is an ongoing initiative to engage and educate residents about the decline of Monarch butterflies and help in their conservation.
5	Promote and adopt enhanced drought tolerant landscaping practices at Town facilities	9 Drought Tolerant landscape practices at Town Facility 9 Water conservation material distributed through water bill. Conservation Classes. ☑ Review recommended planting list		The proposed landscaping list was recommended for approval by ECC; initiated and ongoing for Town projects. The continued implementation of drought tolerant landscaping for Town projects is recommended. Planting list was discussed and approved by ECC.
6	Establish an Arboretum	☑ The Arboretum was established at Westchester Park in 2019	Russ McNamee, Alton Bowman, & Deanna Soper	Continue tree planting efforts at the Arboretum to help expand it.
7	Energy conservation	9 Include LEED guided design principles for new Town projects 9 Implement reduced energy use practices in Town facilities ☑ Conduct an energy audit of Town Facilities		Town Staff/Departmental Responsibility; initiated and ongoing. Send out Town-wide informational emails about energy use practices. Preliminary energy audit completed; future audits and implementation dependent upon Budget.
8	Conduct a Town-wide tree canopy analysis	☑ Town-wide tree canopy analysis completed		Completed 2018 aerial data analysis; ongoing process on a proposed 2-year cycle. The next assessment is scheduled for early 2021 to analyze new 2020 aerial data.

- ☑ Completed Initiatives
- Ongoing Initiatives
- 9 Town/Departmental Ongoing