# Township of Woodbridge Green Grounds \& Maintenance Policy Current Examples 

## Mission Statement

The Township of Woodbridge is dedicated to the concept of utilizing the policies of Green Grounds and Maintenance as one of its best management practices.

## Goals and Responsibilities

To achieve environmentally sound and efficient results in the area of maintaining and designing municipal buildings and property.

## Objectives

The Township of Woodbridge's Department of Public Works and Parks hereby formally supports the following practices to achieve the results stated in its Mission Statement.

## Integrated Pest Management

- use only organic fertilizers and pesticides
- adhere to a frequent timely schedule for mowing and grounds maintenance
- adhere to a seeding and aeration program in the Spring and Fall
- provide timely collection of trash at municipal parks and buildings
- keep tree branches and shrubbery well maintained and away from buildings
- ensure roofs are repaired in a timely manner as to not attract insects to deteriorating wood
> Current Examples:
- New Garbage Can Cleaning Curbside Service - Utilizes environmentally friendly and fully self-contained practices. Carts are cleaned, disinfected \& deodorized right at the curb.
- No-mow seeding and conservation restoration efforts within specific Township maintained areas where native trees, shrubs, and wildflowers have been installed promote both rain-scaping and xeriscaping mechanisms.
- Questionably unsafe tree limbs and shrubbery are maintained. A professional Forester has worked with the Township to best identify possible unsafe vegetation, which then is removed after said assessment. Re-planting in said locations is then arranged/ implemented to ensure healthy re-vegetation.


## Minimize Water Consumption

- encourage collection and use of rainwater for non-potable water applications
- consider reusing stormwater or graywater for sewage conveyance or on-site wastewater treatment systems
- for interior building construction, encourage high-efficiency fixtures and dry fixtures such as reuse of toilet systems and using waterless urinals to reduce wastewater volumes
- promote options for on-site wastewater treatment such as packaged biological
nutrient removal systems, constructed wetlands and high efficiency filtration systems
- encourage "rainscaping" design to minimize surface runoff
- encourage "xeriscaping" to incorporate native and low maintenance plantings
- maintain natural aquifer conditions
- promote consideration of water issues during planning
- implement a citizen education campaign highlighting importance of water issues, using mass media, area schools, and include partnerships with groups like the Environmental Commission and Woodbridge River Watch.


## Efficient Landscape Design

- minimize the use of water and pesticides
- encourage "rainscaping" design to minimize surface runoff
- encourage "xeriscaping" to incorporate native and low maintenance plantings
- ensure all municipal grounds are aesthetically pleasing
- ensure municipal parks make efficient use of all available space
- educate residents of the benefits and encourage the concept of Efficient Landscape and Design to be utilized by private citizens


## $>$ Current Examples:

- The Township of Woodbridge, in conjunction with the Rutgers Cooperative Extension (RCE), is formulating a potential plan to implement the first 'Green Street' in the Township on Marsh Street in Sewaren. A 'Green Street' or 'Complete Street' includes a holistic approach to design a roadway with convenient and comfortable access for all users while improving the aesthetics, ecology, safety, and stormwater management of the roadway.
- No-mow seeding and conservation restoration efforts within specific Township maintained areas where native trees, shrubs, and wildflowers have been installed promote both rain-scaping and xeriscaping mechanisms.
- Engineering plans have been completed for forested wetland installation within a vulnerable floodplain to best promote flood storage and ecosystem services.
- Tremendous effort has been placed on education campaigns focusing on residential water conservation measures both outdoors and indoors.


## Recveled Materials and Composting

- re-use composted and collected recycled material for municipal landscaping applications
- encourage resident recycling of "green" materials such as grass clippings and "brown" materials such as tree leaves
$>$ Current Examples (some 2019 data not available as of yet due to COVID-19; however, June 2018 is within the 2.5 year look back-period for the action):
- Bulky rigid plastics- Woodbridge has a 30 yd container in the Convenience Center for collecting it. We also offer FREE curbside pick-up. 95.10 tons was recycled in 2018
- Plastic Bags/Shrink Wrap- Woodbridge has drop off containers at the Recycling Center, Town Hall, Community Center (new), Sycamore, Evergreen, \& DPW building. We send bags/film to TREX and received a bench made from TREX material every year. In 2018 we collected 1.48 tons.
- Plastics \#3-7- These are picked up with our curbside recycling, we take all plastics \#1-\#7.
- Textiles- Woodbridge has drop off clothing bins at the Recycling Center. There are also bins at the local libraries, schools, and churches. From these locations we took in 560.55 tons. This does not include clothing drives.
- Cooking Oil- Woodbridge has a container for residents to drop off their cooking oil at the Recycling Center. We also supply free containers for them to bring their cooking oil in (courtesy of Middlesex County Recycling).
- Woodbridge Township, Division of Recycling has started a monofilament (fishing line) recycling program at the Sewaren Boat Launch and the Woodbridge Township Marina. Fishermen are encouraged to put their unwanted fishing line into the labeled white pvc, monofilament recycling container. These containers will be serviced by the Division of Recycling. The monofilament line will be collected, sent to a recycler, melted down into plastic pellets, and then made into other plastic products. Fishing line that is discarded in our waterways and on land, is responsible for many wildlife deaths due to entanglement, and for fouling boat propellers. Fishing line that is thrown out in the garbage can end up in the environment; either by blowing out of garbage cans or a landfill, or by being taken out by birds or animals. Monofilament line can last hundreds of years. By using these recycling containers and collecting and recycling the fishing line, we can make sure that it is removed from the environment.
- Food waste recycling has been implemented and 75.07 tons was recycled in 2019.


## Action Plan

Woodbridge Township is dedicated to its Green Grounds and Maintenance Policy. The Department of Public Works and Parks shall oversee that the policy is carried out and will promote the practices and goals set therein.
$>$ Current Examples: This action plan remains in place.

## Current Examples Documentation

## Cart Cleaning Program



Keeping Your Trash \& Recycling

## Carts Clean

The township has started a curbside cart

## cleaning program

* Cart cleaning system is $100 \%$
environmentally friendly and fully
self-contained.
* Carts will be cleaned, disinfected \&
deodorized right at the curb.
* Carts will be cleaned throughout the township


## on a rotating basis.

* You can also call Sanitation at 732-738-1311
ext. 3600 to have your carts cleaned


Used Motor Oil (16)
 Plastic Containers (08)
Steel Containers (07)
Stumps (20)
Textiles (29) Paints \& Stain (24)
Plastic Containers (08)
Steel Containers (07) Other Glass (25)
Other Material Not Listed (24)
Other Paper/Mag/JunkMail (04)
Other Plastic (26) NonFerrous/Aluminum Scrap (10)
Oil Contaminated Soil (27) Mixed Office Paper (02)
Newspaper (03)
NonFerrous/Aluminum S Heavy Iron (09)
Leaves (19)
Mixed Office Paper (02) Food Waste (23)
Glass Containers (05)
Heavy Iron (09) Corrugated (01)
Fluorescent Lights (24)
Food Waste (23) Consumer Electronics (21)
Corrugated (01)
Fluorescent Lights (24)
Concrete / Asphalt / Brick / Block (22)
Consumer Electronics (21) Batteries (Dry Cell) (24)
Brush/Tree Parts (17) Batteries (Automobile) (13)
Batteries (Dry Cell) (24) Anti-freeze (12)

Automobile Scrap (14) | Row Labels |
| :--- |
| Aluminum Containers (06) |
| Anti-freeze (12) |


medsodd ! Bulky Rigid is 95.10 ton Other Plastic is both rigid and plastic bags
Plastic Bays/Film Tonnage is 1.48 ton Note:

# WATSON-CRAMPTON FORESTED WETLAND RESTORATION <br> <br> TOWNSHIP OF WOODBRIDGE <br> <br> TOWNSHIP OF WOODBRIDGE MIDDLESEX COUNTY, NEW JERSEY <br> BLOCK 563.16, LOT 121,124,127,129,131,143,145 <br> BLOCK 563.18, LOT 194,198,201,203,200,209 <br> BLOCK 563.18, LOT 19 <br> BLOCK 563.33, LOT 1 

PROJECT DESCRIPTION:

THIS PROJECT PROPOSES CONSTRUCTION OF A WETLAND EESIGNED TO CONVEY STORM WATER FROM ADJACEN DEVELOPED AREA TO THE WOODBRIDGE RIVER. THE WETLAND DESIGN REDIRECTS FLOW FROM THREE EXISTING SWALES THROUGH A SERIES OF VEGETATED DEPRESSION STORED AND FILTERED. THE DESIGN INCREASES THE FLOOD STORAGE POTENTIAL OF THE EXISTING LANDSCAPE USING NATURAL ECOLOGICAL FEATURES AND REESTABLISHES NATIVE WETLAND VEGETATION APPROPRIATE TO THE REGION AND THE EXPECTED SITE CONDITIONS.

LIST OF DRAWINGS:

| SHEET NAME | TITLE |
| :--- | :--- |
| COVER | COVER SHEET |
| P-1 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| P-2 | PROPOSED SITE PLAN |
| P-3 | WETLAND ZONE DIAGRAM |
| P-4 | PLANTING PLAN |
| DT-1 | PLANTING DETAILS |

[^0]LOCATION MAP:


LEGEND:
------ EXISTING DRAINAGE AREA - EDGE OF PAVEMENT EXISTING CENTERLIN Existing FENCE EXISTING TREELINE Existing tree
$\qquad$ EXISTING BUILDING EXISTING UTILITY POL
EXITITING CATCH BASIN EXISTING CONTOURS -_--_ PROPERTY LINES - - LIMIT OF WORK AREA TO BE DEPAVED

SURVEY CONDUCTED BY RUTGERS COOPERATIVE EXTENSION WATER RESOURCES PROGRAM. SURVEY ELEVATIONS WERE ADJUSTED TO NAVD88.












 | AODEDASN |
| :---: |
| SEELLENEN |




 PHONE 1.100.0668.2729
general lanoscapmg notes











( 2 TR-1 $\frac{\text { TREE PLANTING DETAIL }}{\text { N.T.S. }}$

| 3 |
| :---: |
| DT-1 |
|  |
| SHRUB PLANTING DETALL |
| N.T.S. |

project pant list

| 2one | Latin Name | Common Name | \% Growth | Wetland Status |
| :---: | :---: | :---: | :---: | :---: |
|  | Juncus roemerianus | needlegrass rush | 30\% grass-ike | OBL |
|  | Peetanda virginica | arrow arum | 10\% herb | OBL |
|  | Pontederic cordata | pickerelweed | 10\% herb | OBL |
|  | Schoenoplectus pungens | common threesquare blursh | 25\% grass-ilike | овь |
|  | Schoenoplectus robususu/Bolboschoenus robustus | saltmarsh bulush | $25 \%$ grass-ilike | OBL |
| $\begin{array}{\|c\|} \hline \text { Emergent } \\ \text { Marsh Zone } 2 \\ \text { (OBL) } \end{array}$ | Juncus roemerianus | needlegras rush | $30 \%$ grass-ilike | овL |
|  | Peltrand | wa | 10\% herb | ${ }^{\text {obl }}$ |
|  |  | ardstem burush | 30\% grasslike |  |
|  | Schoenoplectus robustus/Bolos. ${ }^{\text {cheonus } \text { robustus }}$ | saltmarsh bulush | 30\% grass ilike | obl |
| EmergentMarsh Zone(OBL/FACW) | Disisichis spicata | spike gass | 20\% grass-ilike | facw |
|  | Hibiscus moscheutos | swamp rose-mallow | 15\%\% forb/herb | OBL |
|  |  | slender blueflag in | 15\% herb | OBL |
|  | Juncuseffusus | soft rush | 10\% grass-ike | OBL |
|  | Juncus gerardif | black needle rush | 20\% grass-ike | ов |
|  | Sactina potens | saltmeadow cordgrass | $20 \%$ grass | fack |
| $\begin{gathered} \text { Transition } \\ \text { (Fone } \\ \text { (FACW/FAC) } \end{gathered}$ | Asclepios incamata | swamp milkweed | 6\% herb | овL |
|  | Distichis spicata | ke grass | 15\% grass-ike | EACW |
|  | torium fistuosum | Tall oee Pve Weed | 8\% herb | facw |
|  | Naofutescens | marsh elder | 15\% shuub | facw |
|  | Juncus geraratii | black needle rush | 15\% grass-ike | facw |
|  | Solidgos sempenvirens | seaside goldemrod | 6\% herb | fack |
|  | Spartina potens | saltmeadow cordgrass | 15\% grass | fack |
|  | Symphootichum novi-belyil/Aster movibelgin | Cew York aster | $6 \%$ forbherb | Eacw |
|  | Verbena hastata | blue venain | $8 \%$ nerb | ${ }_{\text {FACW }}$ |
| $\begin{gathered} \text { Transition } \\ \text { (Fone 2 } \\ \text { (FACW/FAC) } \end{gathered}$ | Amsonia tobermeemontana | common bluestar | $5 \%$ herb | ${ }_{\text {AC }}$ |
|  | pogon virginicus | broomsedge | $12 \%$ grass-ilike |  |
|  | Asclepios in incamata | swamp milkweed | 5\% herb | овL |
|  | Asclepios tuberosa | butterfly milkweed | 5\% herb | upi |
|  | Baccharis halimifolia | groundsel bush | 12\% shub | facw |
|  | Heliopsis helianthoides | ox eve sunflower | $5 \%$ herb | facu |
|  | No futescens | masts elder | 12\% shub | facw |
|  | Liatis spicata | blazing star | 5\% herb | ${ }_{\text {Ac }}$ |
|  | Muhtenbercia capillaris | pink hair rass | 5\% grass-ike |  |
|  | Panicum virgatum | switchrass | 12\% grass-ike | fac |
|  | Penstemon digitalis | foxklove beardtongue | 5\%/ herb | fac |
|  | Rudbeckia hita | blackeyed susan | 5\% herb | facu |
|  | Schizachyrium scoparium | litte bluestem | 12\% grass-ike | facu |
| MaritimeForest (Mix) | Amelanchier canodensis | seniceberry | 10\% shub | fac |
|  | Cletrra alinifolia | sweet peppertush | 10\% shrub | fac |
|  | Hex opaca | American holly | 10\% tree | facu |
|  | perus viriminand | easter redededar | 15\% tree | facu |
|  | Liuwidambar strvacifua | sweetyum | 10\% tree | fac |
|  | Prunus serotina | black chery | 15\% tree | PaCO |
|  | Rhododendroron viscosom | swamp azalea | 10\% shub | facw |
|  | Sassefras ollididm | Sassatas | 10\%\% tree | facu |
|  | Viburum dentatum | arowwood | 10\% shumb | fac |
| $\begin{gathered} \text { Upland } \\ \text { Woondiland } \\ \text { (Mix) } \end{gathered}$ | Acerrubrum | red maple | 5\% tree | fac |
|  | Acer saccharinum | silver maple | 5\% tree | facw |
|  | Aronia melanocarpa | black chokeerry | 5\% shrub | ${ }_{\text {fac }}$ |
|  | ya ovata | shagbark hickor | 5\% tree |  |
|  | Celtis ocidentalis | hackbery | 5\% tree | facu |
|  | Comus amomum | silky dogwood | 5\% tree | facu |
|  | Comus florida | flowering dogwood | 5\% tree | facw |
|  | Juglans ingra | black walut | 5\% tree | facu |
|  | Juniperus virigimana | eastern red cedar | 5\% tree | facu |
|  |  |  | 边 | Ac |
|  | Lquidambar styraciua | weego | ee | 迷 |
|  | Nussa sylvatica | backsum | 5\% ree | ${ }_{\text {fac }}$ |
|  | PIatanus occidentalis | American sycamore | 5\%.tree | facw |
|  | Prunus serotina | black cherry | 5\%, tree | facu |
|  | Querctu bicolor | swamp white oak | 5\% tree | facw |
|  | Quercus cocitina | scante ooak | 5\% tree | UPL |
|  | Quercus palustis | pin oak | 5\%/ tree | ${ }_{\text {facw }}$ |
|  | Quercus phellos | willow oak | ree |  |
|  | Viburum dentatum | arrownood | $5 \%$ shub | fac |



# DESIGNATE ONE GLASS FOR YOUR DRINKING WATER EACH DAY, OR REFILL A WATER BOTTLE. THIS WILL CUT DOWN ON THE NUMBER OF GLASSES TO WASH. 

There are a number of ways to

save water, and they all start
with you. To learn more visit
wateruseitwisely.com


WHITER
TS:III
Ws:iv.

## WATER-SAVING DEVICE



## WATER-SAVING DEVICE



WATER-SAVING DEVICE


KEEP A PITCHER OF DRINKING WATER IN THE REFRIGERATOR INSTEAD OF RUNNING THE TAP. THIS WAY, EVERY DROP GOES DOWN YOU AND NOT THE DRAIN.

There are a number of ways to save water, and they all start with you. To tearn more visit wateruseitwisely.com


Whiter
US: II
Whily

## WATER-SAVING DEVICE

## WHEN WASHING DISHES BY HAND, DON'T LET THE WATER RUN. FILL ONF BASIN WITH WASH WATER AND THE OTHER WITH RINSE WATER.



Woodbridge Township

# Plan for Ecological Restoration \& Stormwater Management Blue Acres Area Port Reading, Woodbridge Township, Middlesex County 

Public Information Meeting<br>March 26, 2019 ~ 5:00 - 7:00 PM

Overview: The Township of Woodbridge, in conjunction with the Rutgers Cooperative Extension (RCE), is formulating a plan to implement ecological restoration and stormwater management improvement(s) in the Port Reading section of Woodbridge Township.

The project area is located at the intersection of Fourth Street and East Tappan Street within the New Jersey Blue Acres zone and contains six former residential lots. Proposed improvements include the construction of three rain gardens (totaling 3,060 sq. ft.); native tree and shrub planting(s); and the establishment of 0.3 acres of meadow.

The objective of the restoration plan is to increase both the aesthetic and conservation value of the newly acquired open space and to manage stormwater runoff from an approximately $0.3+/-$ acre drainage area.

Rutgers Cooperative Extension (RCE) will be conducting turf management activities within Blue Acres zones on Fourth Street and East Tappan Street to prepare the grounds for subsequent ecological restoration. Treatments will occur on three separate occasions between May and September, 2019.

Neighbors can expect to see RCE and/or Woodbridge Township personnel on-site applying a commonly used broad-spectrum herbicide. Signs will be erected in treated
area(s) indicating the date and time when it is safe for people and pets to re-enter (approximately two hours after application). Treated areas will be replanted with native warm-season grasses and wildflowers in the Fall 2019. The ecological restoration and stormwater management improvement is scheduled to be completed by June 2019.

Public Information Meeting: Area residents are invited to attend a Public Information Meeting at the Cypress Recreation Center, 881 West Avenue, Port Reading, on Wed., March 26, 2019 from 5:00-7:00 PM.

## For Further Information Contact:

Thomas C. Flynn, M.P.A., CFM
Floodplain Manager
Division of Engineering
Township of Woodbridge
1 Main Street, Woodbridge
732.602.6057

Thomas.Flynn@twp.woodbridge.nj.us
Sincerely,


John E. McCormac
Mayor
Woodbridge Township


Example of a Rain Garden: A rain garden is a garden of native shrubs, perennials, and flowers planted in a small depression, which is generally formed on a natural slope. It is designed to temporarily hold and soak in rain water runoff that flows from roofs, driveways, patios or lawns.

## COLONIA

## OPEN SPACE AND FLOODPLAIN RESTORATION PLAN <br> WOODBRIDGE TOWNSHIP MIDDLESEX COUNTY, NEW JERSEY

PROPOSED NATIVE TREE AND SHRUB PLANTINGS IN COLONIA, WOODBRIDGE TOWNSHIP, NEW JERSEY AS PART OF THE OPEN SPACE AND FLOODPLAIN RESTORATION PLAN

LIST OF DRAWINGS:

| SHEET NAME | TITLE |
| :--- | :--- |
| COVER | COVER SHEET |
| P-1 | SITE PLAN 1 |
| P-2 | SITE PLAN 2 |
| DT-1 | DETAILS |

## GENERAL NOTES

1. SURVEY CONDUCTED BY RUTGERS COOPERATIVE EXTENSION WATER RESOURCES PROGRAM. (OR ELEVATION DATA OBTAINED FROM INSERT DATA SOURCE HERE, TYP
NOAA DIGITAL COASTAL LIDAR.)
2. ANY OVERHEAD AND UNDERGROUND UTILITIES SHOWN ARE FROM FIELD OBSERVATIONS AND ARE NOT A COMPLETE REPRESENTATION. A UTIIITY MARKOUT NEEDS TO BE CONDUCTED PRIOR TO MOBILIZATION. NJ ONE CALL: 811 OR 800-272-1000


DETAILS:


NOTES:

1. DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
2. WATER THOROUGHLY AFTER INSTALLATION. REMOVE SAUCER AND STAKES TWO YEARS
CONTRACTOR IS NOT TO USE TREE WRAP
3. VACANT LOTS TO BE SEEDED WITH LOFT/PENNINGTON "SUMMER STRESS MIX 2 "
4. SEED AT 100-200 LBS. PER ACRE



[^0]:    GENERAL NOTES

