

Public Presentation  
December 11th, 2014

# **PUTNAM COUNTY LAKE GLENEIDA VEGETATION RESTORATION AND MANAGEMENT PLAN**

# Background

- Putnam County had a New York City Department of Environmental Protection (NYCDEP) Maintenance Permit to maintain the lawn up to 25 feet from the lakeshore along the eastern side of Lake Gleneida.
- The permit did not allow for cutting of lake shore vegetation within the 25 foot Riparian Buffer.



- Boats secured along the lakeshore and in the lawns hampered maintenance efforts and polluted the viewscape.
- Boat and lake access is limited due to the thick overgrowth
- Access that does exist creates potentially hazardous launching areas along the rocky shore.

- Public demand for improved maintenance and beautification by community stakeholders was increasing as the shoreline matured and the view of Lake Gleneida diminished.
- Recognizing the scenic, environmental and recreational benefits, the Putnam County Executive and the NYCDEP agreed that a vegetative management plan should be developed for Lake Gleneida's eastern shoreline.

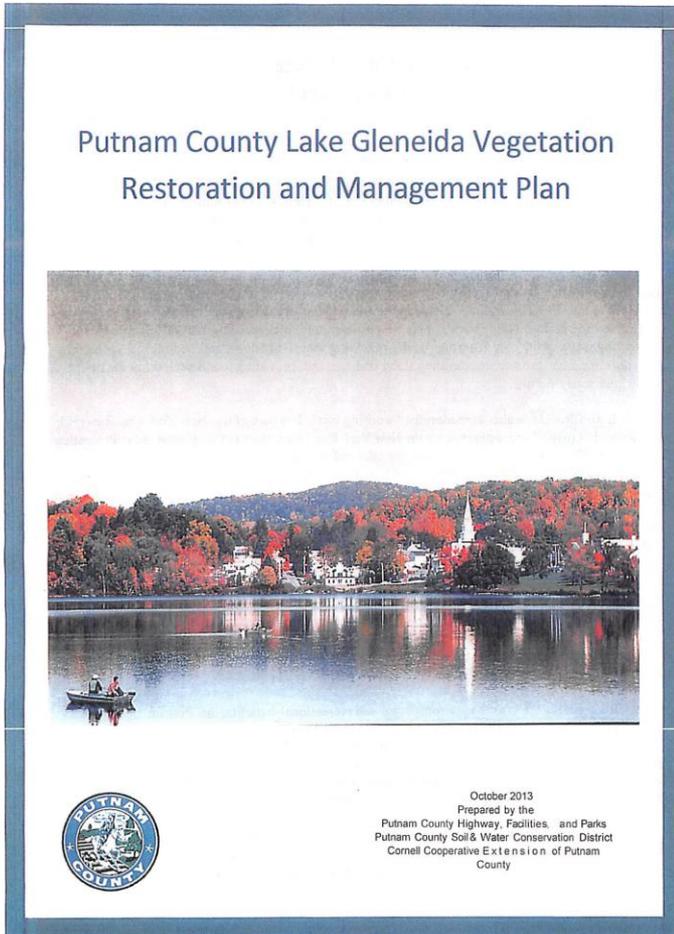
- The County Executive put together a “Lake Gleneida Working Group” that included representatives from the Putnam County Department of Highway and Facilities, the Putnam County Soil and Water Conservation District and Cornell Cooperative Extension of Putnam County

# Cooperation and Partnership

- Putnam County and the NYCDEP have established a good working relationship over the past few years on a number of projects throughout the County.
- The NYCDEP has continued to grant permits to the County for special events such as the Row of Honor, the Bicentennial Fireworks and the annual Holiday Lights Festival.



- Through this cooperation the NYCDEP and Putnam County along with the partners from Cornell Cooperative Extension and The Putnam County Soil and Water Conservation District have developed the Putnam County Lake Gleneida Vegetation Restoration and Management Plan.



# The Plan consists of the following Principle Components

1. Designating consolidated and permanent Boat Stanchion Areas and lake access points.
2. Mapping the Management Area in 200-foot Management Segments.
3. Conducting an inventory of the Management Area.
4. Develop a Design and Planting Plan
5. Implementation of the Design and Planting Plan
6. Create a Long-term Maintenance Program

# Upon the completion and approval of this plan, the DEP issued Putnam County a new Permit.



Permit No. 10074



## THE CITY OF NEW YORK Department of Environmental Protection

### *Revocable Permit for Temporary Use of City Property*

Temporary permission to use City property is hereby given to:

**PUTNAM COUNTY DEPT HIGHWAYS & FACILITIES**

located on the subject property identified as:

**Lake Gleneida property along Rts 6 and 301, in the Town of Carmel, Putnam County, NY**

**Section-Block-Lot: 55.-2-5**

for the following purpose(s):

**Restoration and management of shoreline vegetation as per Lake Gleneida Shoreline Vegetation Management Plan**

**This Permit shall be valid from January 24, 2014 through January 23, 2019.**

A handwritten signature in black ink, appearing to be 'M. L. ...', written over a horizontal line.

Signature  
DEP Representative

A handwritten date '1/24/14' in black ink, written over a horizontal line.

Date

*This Permit is issued subject to the Rules of the City of New York (15 RCNY §17) "Rules for the Issuance of Revocable Land Use Permits for the Occupation or Use of City Property" and to all conditions as specified in the attached offer letter dated October 30, 2013.*

***This Permit is not transferable and may be canceled by the DEP Commissioner upon no less than 30 days' written notice.  
This Permit does not confer any right, easement or interest in, to, over, under or across the subject property.***

ProjectNo: 2300

# Permit No. 10074

- Under the new permit the County can continue to maintain the lawns as allowed in the past.
- The County can begin restoration of the 2000 feet of Lake Gleneida's eastern shoreline, removing invasive and undesirable species of vegetation and replacing them with low growing native species.
- The County can mechanically cut the existing vegetation of the 2000 foot shoreline, otherwise referred to as the Management Area, 2 times/year at a desired height of 3-4 feet.

- Mature, healthy existing trees will remain but unhealthy and dead trees will be removed.
- A 25 foot Riparian Buffer will be established to ensure water quality, wildlife habitat, Canada Geese exclusion, and soil stabilization.
- Boat stanchion areas will be placed at strategic locations to provide for parking and safe lake access points. All boats will be required to relocate to these locations.

# Management Area

- The Management Area is 2000 feet long
- It consists of the eastern shoreline of Lake Gleneida.
- It runs approximately from the intersection of Route 301 and Route 52, south to the intersection of Route 6 intersection and Church Street.
- It is within the Management Area that the shoreline restoration will be conducted.

Map A

Management Area

Lake Gleneida

Map by Pulaski County Soil & Water Conservation District  
Prepared by WFA-161112 SOW on August 2012



# Inventory

- The 2000 feet of Management Area has been broken into ten 200 foot segments.
- Cornell Cooperative Extension has inventoried one segment identifying invasive plant species, hazard trees and/or undesirable vegetation that should be removed.
- Data was collected, mapped and entered into a spreadsheet.

Putnam County

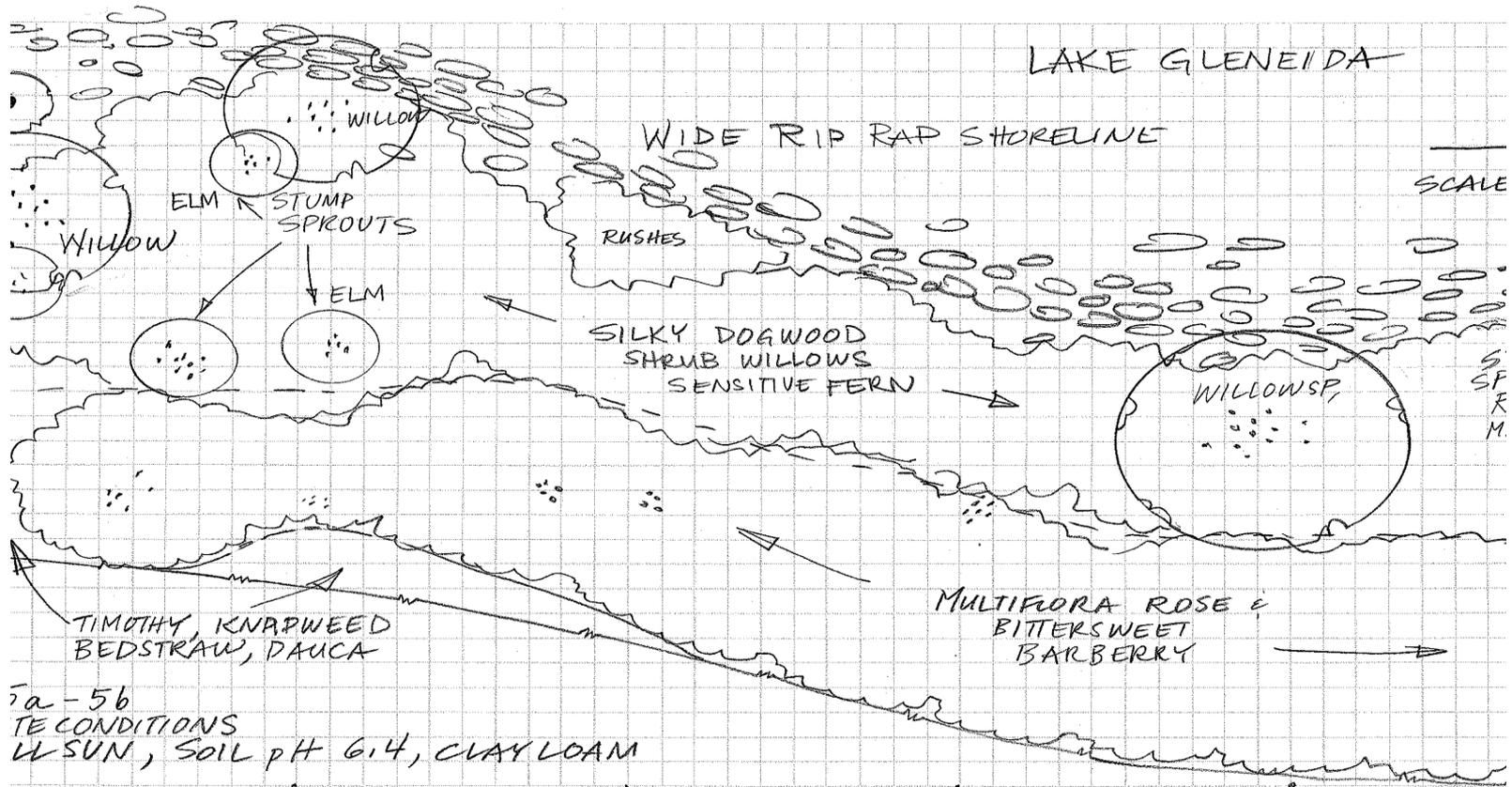
Map C

Lake Gleneida

Legend

- 200' zoning sections
- SECTION
  - 1
  - 2
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - 9
  - 10
- Roads
  - US Routes
  - CR
  - Interstate
  - State Route
  - County St. Pkwy
- FEAT\_CODE
  - Reservoir
  - Lakes & Rivers
- Wetlands
  - CLASS
    - SV, GV, SM, SD, ST, DV
    - OW

Map by Putnam County Dept. of Information Technology / GIS  
Prepared by AJG - 11/19/2010 - North 2112  
www.putnamcountyga.com



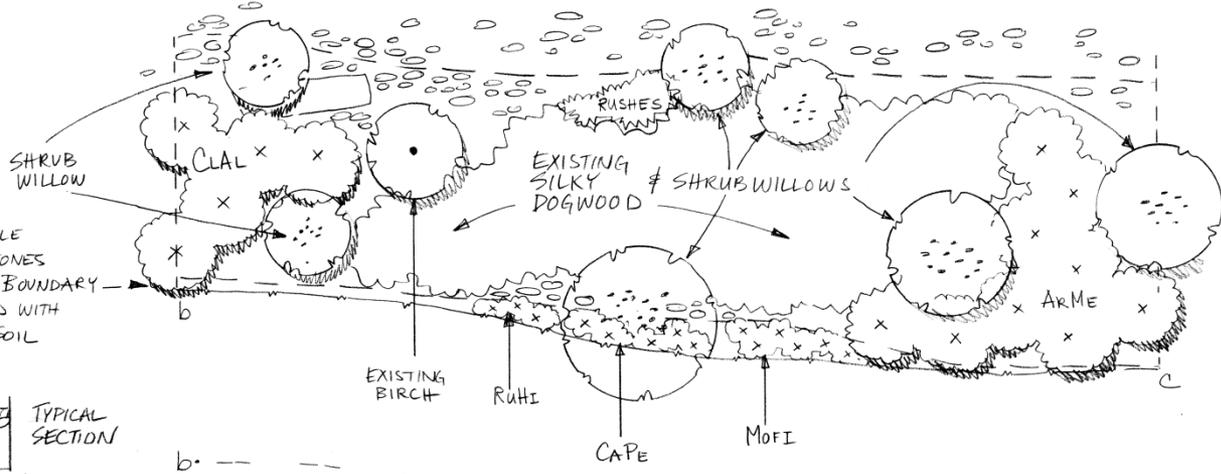
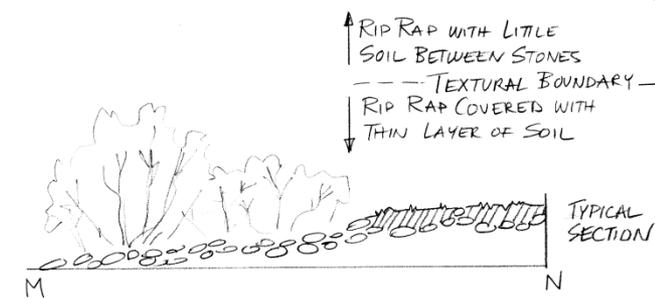
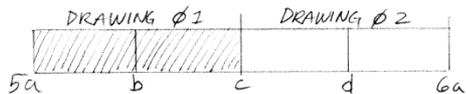
## Existing Conditions Inventory Map

Section 5a-5b

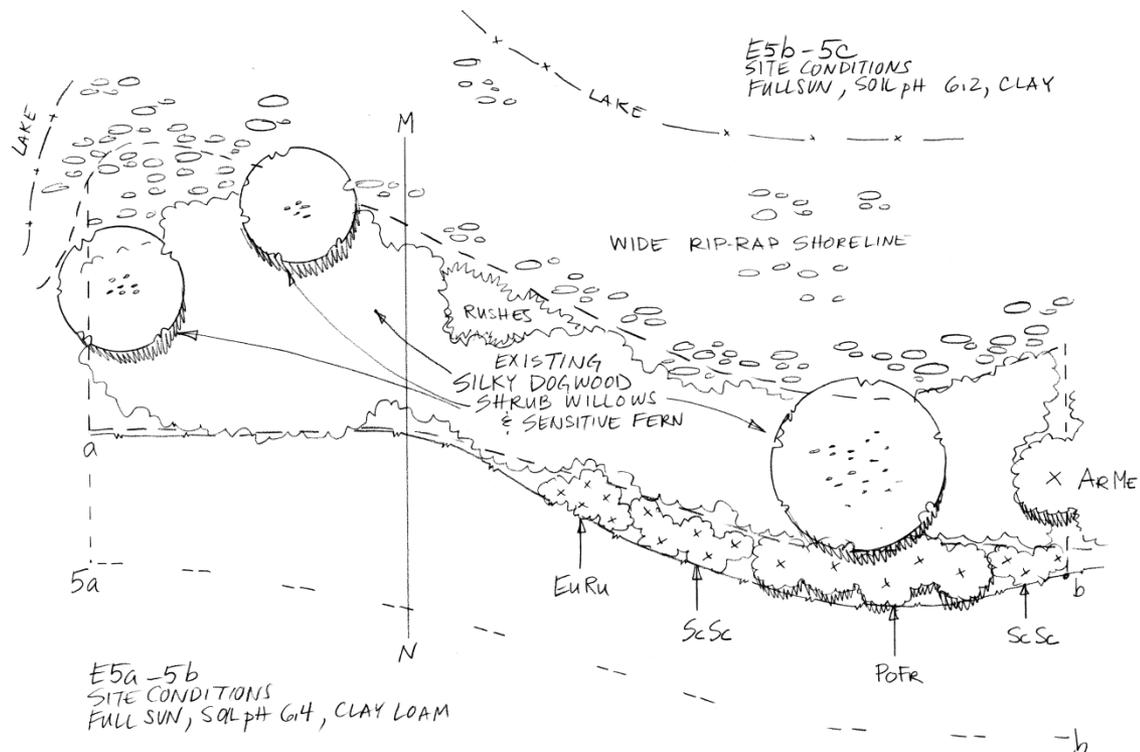
# Design and Planting Plan

- The Design and Planting Plan involved mapping the current general layout of the existing vegetation located in each segment within the Management Area.
- A plan drawing was created for the Management Segment which identified desirable existing vegetation, new planting recommendations of preferred plants and any physical items of significance.

- A special custom “Lake Gleneida Riparian Buffer” seed blend of native grasses, wildflowers and small shrubs was developed, approved by NYCDEP and purchased. The seed blend will be applied when removal occurs in each management section.
- Using the NYCDEP approved planting list, native species that have a mature height of 4 foot high or less were chosen to replace all eradicated invasive undesirable vegetation.



E5b-5c  
SITE CONDITIONS  
FULL SUN, SOIL pH 6.2, CLAY



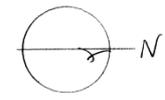
E5a-5b  
SITE CONDITIONS  
FULL SUN, SOIL pH 6.4, CLAY LOAM

WOODY PLANTS

- ARME ARONIA MELANOCARPA, BLACK CHOKEBERRY
- CLAL CLETHRA ALNIFOLIA, SWEET PEPPERBUSH
- POFR POTENTILLA FRUTICOSA, BUSH GINGUEFOIL

HERBACEOUS PLANTS

- CAPE CAREX PENNSYLVANICA, PENN. SEDGE
- EURU EUPATORIUM RUGOSUM, WHITE SNAKEROOT
- MOFI MONARDA FISTULOSA, WILD BERGAMOT
- RUHI RUDBECKIA HIRTA, BLACK-EYED SUSAN
- SCSC SCHIZACHRIUM SCOPARIUM, LITTLE BLUESTEM



LAKE GLENEIDA SHORELINE PLAN 5 & SECTION		
SCALE: 1/4"	APPROVED BY:	DRAWN BY: <i>[Signature]</i>
DATE: 5/1/14		REVISED:
FOR SECTION 5a-b, b-c		DRAWING NUMBER: 01

# Boat Stanchions

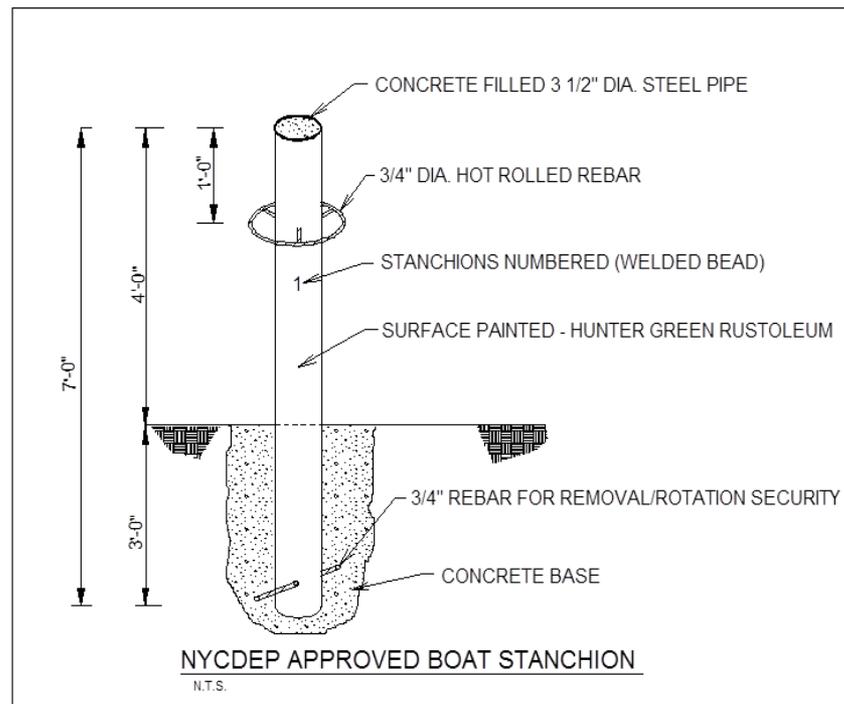
- Boat Management is an essential part of the Plan.
- Following the NYCDEP example on Kensico Reservoir in Westchester County, the Plan calls for an established boat stanchion area outside of the management and maintenance areas of the plan

# Kensico Reservoir



- Two areas were chosen that would meet all the criteria
  - Clean up the view scape.
  - Clear the Management Area for restoration implementation of the riparian buffer.
  - Allow easier routine maintenance along the shoreline.
  - Provide plenty of parking access.
  - Provide safe designated boat launching sites.
  - Provide boat stanchions for securing the boats.

- The Boat Stanchions were designed and approved by NYCDEP similar to those located on Kensico Reservoir.



# Stanchion Area Locations





New York State Department of Environmental Conservation  
Division of Water  
Bureau of Water Permits, 4th Floor  
625 Broadway, Albany, New York 12233-3505  
Phone: (518) 402-8111 • Fax: (518) 402-8029  
Website: [www.dec.ny.gov](http://www.dec.ny.gov)



11/21/2014

PUTNAM COUNTY  
JOHN TULLY  
842 FAIR STREET  
CARMEL NY 10512-

Re: **ACKNOWLEDGMENT of NOTICE of INTENT for  
Coverage Under SPDES General Permit for Storm  
Water Discharges from CONSTRUCTION  
ACTIVITY General Permit No. GP-0-10-001**

Dear Prospective Permittee:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) has received a complete Notice of Intent (NOI) for coverage under General Permit No. GP-0-10-001 for the construction activities located at:

**LAKE GLENEIDA SHORELINE MANAGEMENT PROG  
NYS ROUTE 301 AND NYS ROUTE 6  
CARMEL NY 10512-**

County: **PUTNAM**

Pursuant to Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, ECL Article 70, discharges in accordance with GP-0-10-001 from the above construction site will be authorized **5 business days** from **11/21/2014** which is the date we received your final NOI, unless notified differently by the Department.

The permit identification number for this site is: **NYR 10Y709**. Be sure to include this permit identification number on any forms or correspondence you send us. When coverage under the permit is no longer needed, you must submit a Notice of Termination to the Department.

This authorization is conditioned upon the following:

1. The information submitted in the NOI received by the Department on **11/21/2014** is accurate and complete.
2. You have developed a Storm Water Pollution Prevention Plan (SWPPP) that complies with GP-0-10-001 which must be implemented as the first element of construction at the above-noted construction site.
3. Activities related to the above construction site comply with all other requirements of GP-0-10-001.

- **NYS DEC SPEDES  
General Permit was  
issued for  
Construction of the  
Stanchion Areas**

RECEIVED  
PUTNAM COUNTY  
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FP  
M...

# Long-Term Maintenance Program

- Continue the maintenance procedures that are currently performed in the Maintenance Area on an ongoing basis
- Remove hazardous trees
- Continue to maintain the height of the vegetation within the Management Area to a 3 to 4 foot high.

- Inspect the area on a semi-annual basis.
- Monitor previous year's work performed in the Management Area and restore and maintain as necessary.
- Continue the ongoing maintenance performed in the Maintenance Area by monitoring and maintaining the entire eastern shoreline biannually.
- Maintenance will be scheduled to minimize the impact on local wildlife and the nesting birds in the Maintenance and Management Areas.
- Control the undesirable vegetation found in the Management Area

End