

**Geese Monitoring – Visual Assessments of Lakes and Parks  
Whippany River Watershed Project  
April 2, 2009  
Princeton Hydro**

Significant sampling for pathogen concentrations was conducted by the Hanover Department of Health during 2001 to 2003, and this data was summarized in the Sanitary Survey Report of 2004. These stormwater samples were routinely elevated above the NJ SWQS for fecal coliform standard

The Hanover DOH identified several lakes as having large geese populations, which could be a significant source of the pathogen contamination in the river (see list below). In the spring, April- May, geese generally remain sedentary as they are nesting and molting. During this time frame efforts should be made to assess the geese populations at various sites using the criteria outlined below.

**Florham Park**

- Black Brook wetland area (near Exxon office and Madison High School)
- Pinch Brook Golf Course

**Hanover Township**

- Malapardis Park
- Central Park
- Saddle Rd / Horsehill Rd
- Municipal Building grounds
- Stoney Brook Pond
- Bee Meadow Ponds
- Hanover Sewage Treatment Plan
- Melanie Lane – and stormwater detention basin
- Algonquin Parkway
- Black Brook Park
- Morristown Airport

**Medham Twp**

- Sunrise Lake
- Brookside Beach

**Mountain Lakes – all lakes**

**Morris Plains**

- Pfizer Corporate property
- Shop Rite
- Community Park / Pond
- Watnog Pond
- Jaqui Pond
- Baker Property Pond

**Morris Twp**

- Burnham Pond
- Whippany River near Lake Valley Rod

**Parsippany**

- Office complex – Littleton Rd, Campus Drive, Sylvan Way
- Lake Intervale
- Lake Parsippany
- Sharkey Landfill
- Powder Mill Shopping Center ( SW basin along Rte 10)
- Knoll county Club golf Course – out of watershed

## Geese Monitoring Program - Visual Assessments of Lakes, Parklands, Public Lands

Monitor Name(s) \_\_\_\_\_ Date \_\_\_\_\_

Volunteer Hours Used for This Assessment \_\_\_\_\_

Lake/ Park Name \_\_\_\_\_

Address / Location \_\_\_\_\_

Municipality \_\_\_\_\_

GPS coordinates if recorded \_\_\_\_\_

### 1. Lake / Parkland Description

#### a. Ownership

\_\_\_\_ Municipal \_\_\_\_ County \_\_\_\_ State \_\_\_\_ Private

#### b. Lake Association Contact info \_\_\_\_\_

c. \_\_\_\_ Swimming Beech \_\_\_\_ Boating \_\_\_\_ Trails \_\_\_\_ Parklands

\_\_\_\_ Recreational fields \_\_\_\_ Lawns \_\_\_\_ Meadows \_\_\_\_ Other \_\_\_\_\_

### 2. Describe Lake Shoreline Vegetation

\_\_\_\_ % Shoreline mowed lawn

\_\_\_\_ % Shoreline Privately Owned

\_\_\_\_ % Shoreline 2-3 ft tall shrubs and vegetation

\_\_\_\_ % Shoreline Wooded / Tree lined

### 3. Describe Geese Populations Present

\_\_\_\_ < 20 geese \_\_\_\_ < 50 \_\_\_\_ < 100 \_\_\_\_ > 100 \_\_\_\_ > 200

### 4. Describe Nesting Areas \_\_\_\_\_

\_\_\_\_ How many geese nests are present

### 5. Describe Foraging Areas

\_\_\_\_ Lawns

\_\_\_\_ Parking Areas

\_\_\_\_ Meadows

\_\_\_\_ Recreational Ballfields

### 6. Describe Geese Mitigation Measures

\_\_\_\_ Signage – Do not feed geese \_\_\_\_ Flagging \_\_\_\_ Egg oiling \_\_\_\_ Egg addling

Identify who performs the work \_\_\_\_\_

\_\_\_\_ Dog Silhouettes \_\_\_\_ How many \_\_\_\_ Other programs \_\_\_\_\_

\_\_\_\_ are geese nearby < 100 ft \_\_\_\_ > 100 ft

7. Describe Stormwater Measures

\_\_\_\_\_ Drainage Swales \_\_\_\_\_ mowed grassed \_\_\_\_\_ tall vegetation

\_\_\_\_\_ Storm sewers \_\_\_\_\_ storm catch basins  
\_\_\_\_\_ storm outfalls to lake \_\_\_\_\_ outfalls to stream

\_\_\_\_\_ mowed grassed dry basin \_\_\_\_\_ concrete drainage line

\_\_\_\_\_ tall vegetation bioretention basin \_\_\_\_\_ wet pond \_\_\_\_\_ aerators/ fountains

\_\_\_\_\_ Other \_\_\_\_\_

8. Describe Stormwater infrastructure conditions

Sewer Catch basin \_\_\_ good \_\_\_ poor Describe repairs needed \_\_\_\_\_

Inlet \_\_\_ good \_\_\_ poor Describe repairs needed \_\_\_\_\_

Outlet \_\_\_ good \_\_\_ poor Describe repairs needed \_\_\_\_\_

Outfall \_\_\_ good \_\_\_ poor Describe repairs needed \_\_\_\_\_

9. Describe Shoreline

\_\_\_\_\_ % Stable shoreline \_\_\_\_\_ % Eroded Shoreline  
\_\_\_\_\_ Estimate # Areas of Eroded Shoreline \_\_\_\_\_ Estimate Erosion Lengths

Describe areas: \_\_\_\_\_

\_\_\_\_\_

10. Proposed Geese / Stormwater Mitigation Measures

\_\_\_\_\_ 50 ft no mow buffer \_\_\_\_\_ % of shoreline \_\_\_\_\_ vegetated buffer \_\_\_\_\_ length of plantings

\_\_\_\_\_ vegetate drainage swales \_\_\_\_\_ vegetate basin \_\_\_\_\_ length/ acreage of plantings  
\_\_\_\_\_ install SW structures Describe \_\_\_\_\_

11. Photo document the lake, immediate lake shoreline, lawns, parkland, parking areas to characterize the lake setting.

12. Photo document the inlet, dam, and outfall/ outlet of the lake. Describe any noticeable areas that may need inspection or repair, such as eroded banks or unstable outfall structures.

13. Draw an image that describes the lake setting and areas where geese are presence.