

# CT DOT – Cottage Grove Road

**File No.:** 199010883

**City and State:** Bloomfield, CT

**General Impacts:**

- 3.08 acres forested
- 0.14 acre scrub-shrub
- 0.6 acre emergent

**Functions and Values Lost:**

- Groundwater
- Sediment Retention
- Nutrient Removal
- Production Export

**Year(s) Mitigation Constructed:** May 1992

**Size and Type of Mitigation as Proposed:** 6.2 acres non-tidal forested

**Proposed Functions and Values of Mitigation:**

- Groundwater
- Nutrient Removal
- Production Export
- Sediment Retention
- Wildlife Habitat

**Mitigation Special Condition(s):**

Unable to find permit in the file.

**Remarks:**

According to a report by Frank Smilgelski , senior wetland scientist, in spring of 1992, the site was covered in standing water, wetter than planned - caused probably by the grading configuration of the area, tight soils, and no outlet. He found that many of the site plants were dying, and noted that mortality or severe plant stress was evident in approximately 75% of the plantings. Many of these plantings were subsequently replaced. Also in the report:

“Many areas had chunks of concrete or asphalt present. DOT personnel were on site at the time of the author’s 1992 visit and were aware that the site needed extensive remedial work. After the Corps’ first growing

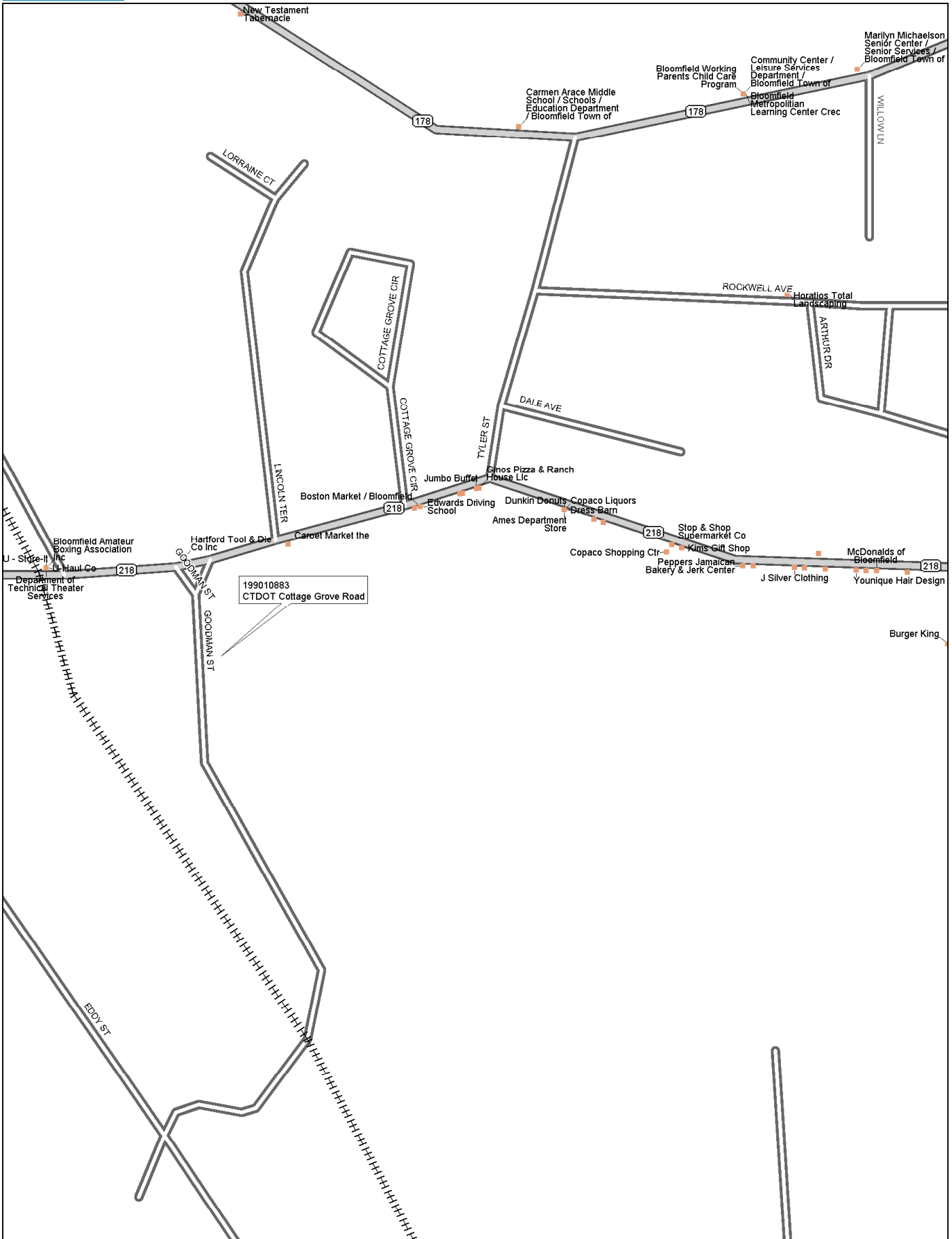
season visit, without an amendment to the permit, DOT dug two ditches to partially draw off some of the standing water. This was partially effective at reducing the surface water area. It may also cause some of the planned restoration to have insufficient hydrology.

Much of the wetter portions of the site are now cattail marsh. The permit required monitoring of the site, but DOT has not complied. The permit also required Purple Loosestrife control but DOT has not complied with that either. ERS has notified this site's Project Manager and the Permits Branch Chief and the Inspection Section Chief of these violations. ERS is awaiting action by Compliance Branch.

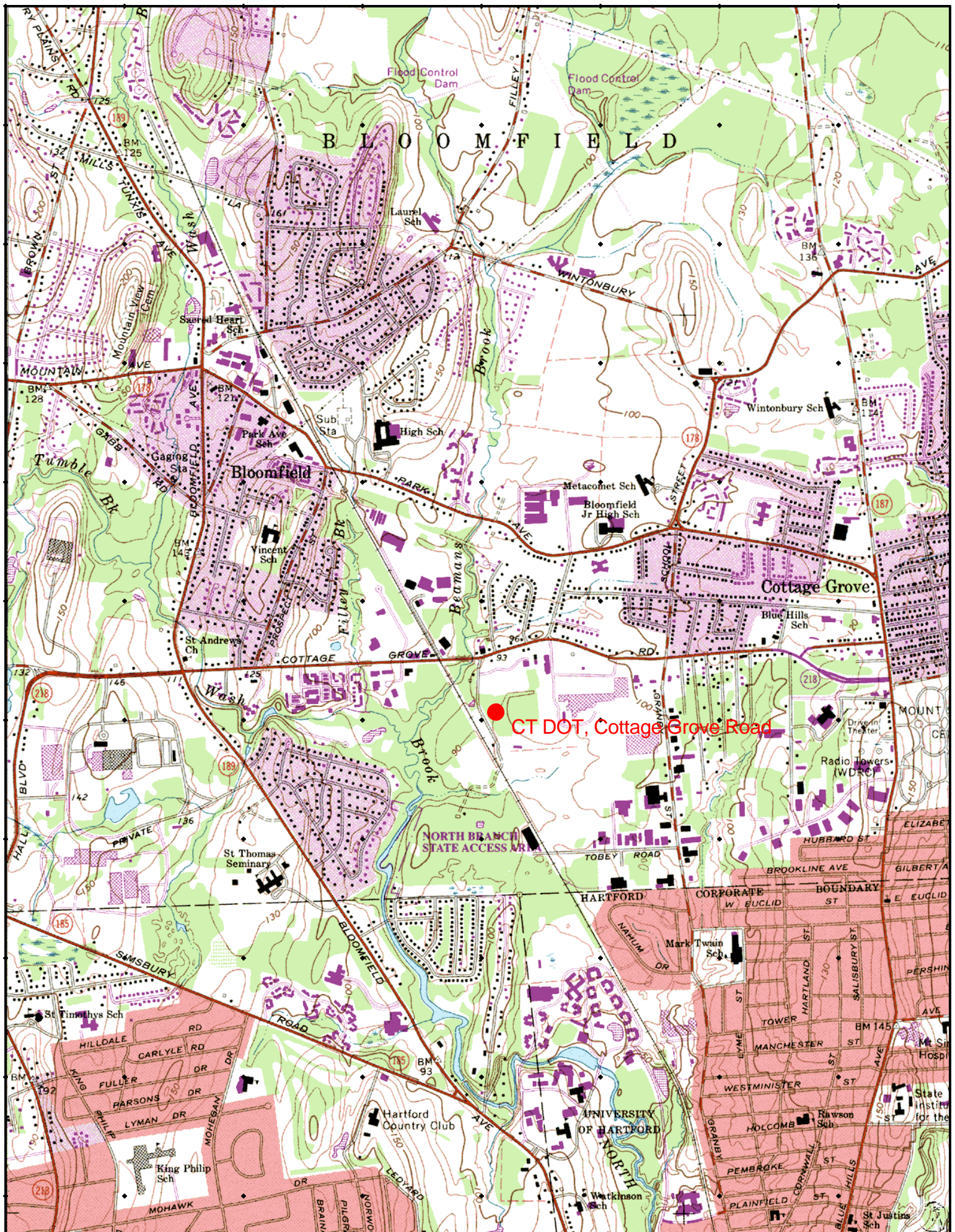
**Conclusions** - As of the author's 1992 visit, the site's hydrology/soil conditions were not conducive to the reestablishment of a red maple swamp."

**Directions:**

Take route 128/95 south to I-90 west to I-84 west to I-291 west, Windsor, CT. Take exit 1, CT-218, Bloomfield. Turn left onto CT-218. Continue on Cottage Grove Road, then turn left onto Goodman Road from which the mitigation site will be accessed. The mitigation site is situated within the Bearman Brook watershed (approximately 400 feet to the east of the stream channel) and approximately 200 feet south of the exiting Cottage Grove Road. The property is bounded on three sides; east, south, and adjacent to Goodman Street on the west by hardwood forested wetland systems. To the north the site is separated from the SNET property by a narrow band of forested vegetation.







## MITIGATION SITE FIELD DATA FORM

Site Name: CTDOT, Cottage Grove File No. : 199010883

City/Town: Bloomfield State: CT Waterbody:

Monitor(s): Kathleen McKee, Keith Wright Date: 6-17-02

Was site constructed?      yes

Is site wetland?              yes

Size of proposed wetland: 6.19 acres

Actual size of wetland: approximately the same

Landscape position: TBD

Lat/Long Points: 41.46415N W071.3032

Saved GPS Waypoint name: COT

GPS Tracking Log Name: N/A

Perimeter: TBD

### Surrounding land use:

Hardwood forest 2 sides, parking lot/road one side, road one side

### Is wetland function compromised by surrounding land use?

Yes—potential runoff from road and parking lot.

### Plant health:

Good

### Invasive species:

*Lythrum salicaria* (very dense at northwest corner – not so dense on east side)

### Wildlife use:

Redwing Blackbirds

### Plants:

*Acer rubrum*  
*Achillea millefolium*  
*Alisma triviale*  
*Alnus* sp. (tall)  
*Asteraceae* sp.  
*Carex* sp.  
*Cornus ammomum*  
*Daucus carota*  
*Equisetum* sp.  
*Eupatorium perfoliatum*  
*Fabaceae* sp.  
*Galium* sp.  
*Impatiens capensis*  
*Juncus* sp.  
*Juncus tenuis*  
*Lythrum salicaria*  
*Onoclea sensibilis*  
*Panicum* sp.  
*Potentilla* sp.  
*Quercus* sp.  
*Rosa multiflora*  
*Salix* sp. (one individual corkscrew willow)  
*Salix* spp.  
*Solidago* sp.  
*Trifolium* sp.  
*Typha angustifolia*



## Soils Data:

Plot 1, site not inundated

DEPTH	HORIZON	MATRIX	REDOX	COMMENTS
0 - 4.5"	A	low chroma, grayish brown		silt loam
4.5 +	B	reddish		sandy loam - gravelly

## Sketch approximate mitigation site, noting areas and types of wetlands, waters, other features, landscape position, landmarks, etc., and data and photo point(s):

See field notes.

## Overall Description of site:

This is a 10-year-old site – it was built in 1992. It was a wetland restoration project (they removed tennis courts) which was historically a red maple swamp. Topsoil in some areas is only about 4" deep until a 80% gravel layer with a sandy loam matrix is reached. Much of the wetter portions of the site are now cattail marsh. 3 sides of the site are red maple swamp. There is a problem with *Lythrum salicaria*.

## Comments, problems, recommendations:

Site flooded in 1992. There was a high woody species mortality rate at first due to flooding, animals and other things. Ditches were constructed to reduce flooding.

There was a 90% mortality rate of the shrub species (arrow wood, silky dogwood, speckled alder) after that (per 11/12/97 R. Ladd memo). This study visit revealed that planted red maples that had died (dead wood trunks still present) were re-sprouting on the West side of the site.

Some comment history from Mitigation Database:

- Spring 1994 DOT replaced trees killed. PL and *Phragmites* present.
- Sprayed for *Phragmites* in 9/99 and planted willows that took well, other plants did not do so well, sandbags were used to control water but it was a dry year.

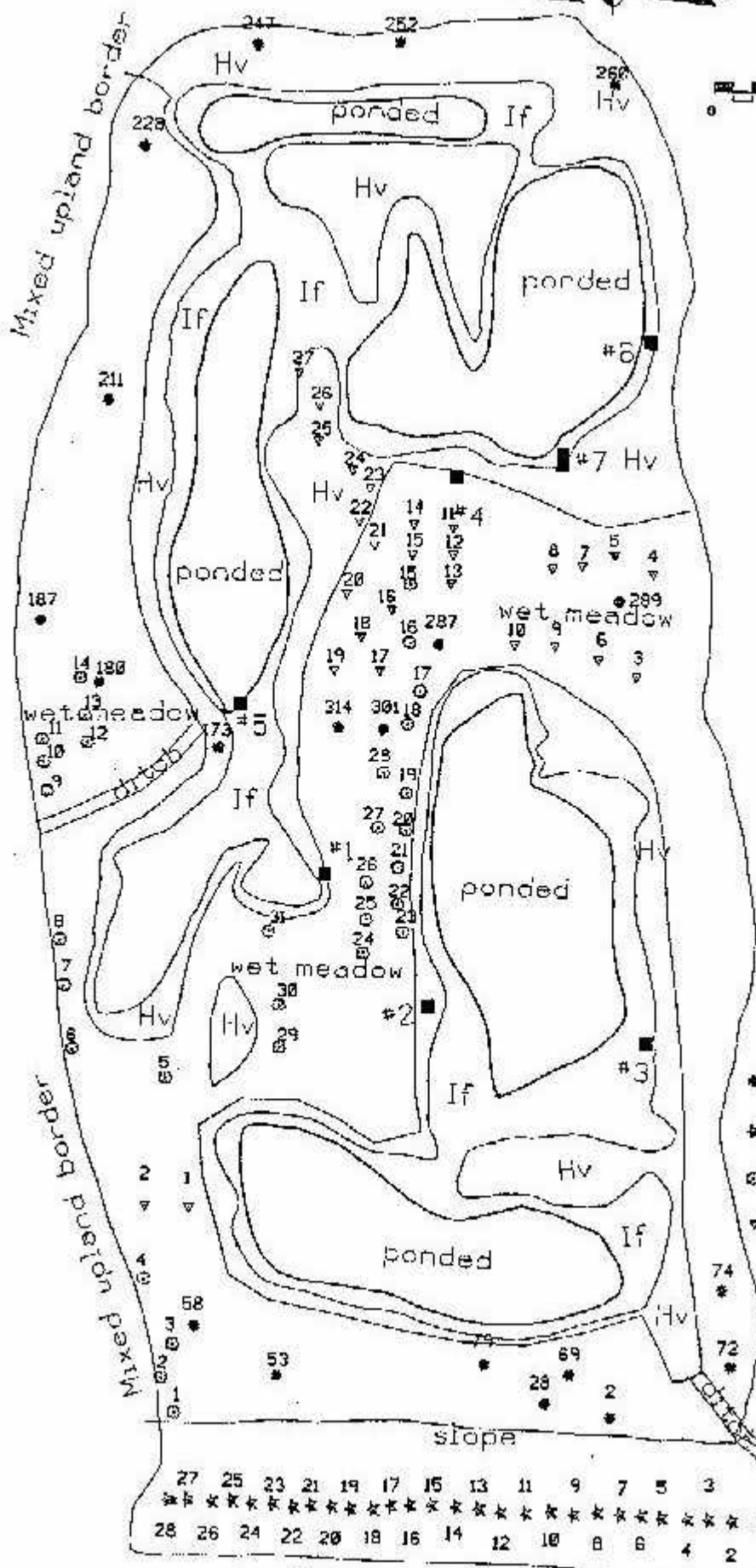
Problems:

- Only 2 monitoring reports are in the file: Feb 1996 and July 1997. The Mitigation database says there is a monitoring report that was received in 5/99.
- Purple loosestrife is 100% cover on northwest part of the site but toward the middle of the site between the ponds there is more diversity. Ruth Ladd's Mitigation Report Review dated 11/12/97 reviews the 2<sup>nd</sup> report dated July 1997. She notes that the project is in compliance with the permit except for the removal of "undesirable species."

SNET Driveway

Mixed upland border

Mixed upland border



SCALE  
0 60 120  
feet

- red maple
- \* white pine
- ⊙ green ash
- ▽ pin oak

wooded Red maple swamp

slope

# Wetland Function-Value Evaluation Form

Total area of wetland 6.19 ac Human made? yes Is wetland part of a wildlife corridor? \_\_\_\_\_ or a "habitat island"? yes

Adjacent land use hardwood forest, road, parking lot Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM, PSS Contiguous undeveloped buffer zone present yes

Is the wetland a separate hydraulic system? yes If not, where does the wetland lie in the drainage basin? \_\_\_\_\_

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

CT DOT Cottage Grove

Wetland I.D. Road 199010883

Latitude N42.46415 Longitude W71.30132













Prepared by: Wright Date 6/24/02

Wetland Impact:  
Type \_\_\_\_\_ Area \_\_\_\_\_

Evaluation based on:

Office \_\_\_\_\_ Field X

Corps manual wetland delineation  
completed? Y X N \_\_\_\_\_

Function/Value	Suitability Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	X		4,5		
 Floodflow Alteration	X		5,6		
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X		1,5		
 Nutrient Removal	X		3,5,8,9	X	
 Production Export	X		1,4,7,8		
 Sediment/Shoreline Stabilization		X		X	
 Wildlife Habitat	X		1,3,5,7,8,13,17		
 Recreation		X			
 Educational/Scientific Value		X			
 Uniqueness/Heritage	X		5,6,12,13		
 Visual Quality/Aesthetics	X		1,2,3,5,6,12		
<b>ES</b> Endangered Species Habitat		X			
Other					

Notes:

\* Refer to backup list of numbered considerations.



19901083  
Cottage Grove  
Bloomfield, CT  
6/7/02



From the middle, looking south



northeast corner of site



By soil plot 2, looking southwest



USGS 6 km SW of Windsor, Connecticut, United States 13 Apr 1992



0 200M

0 200yd

Image courtesy of the U.S. Geological Survey  
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