Technical Memorandum

Lake Water Quality Survey 2005
DWM WATER QUALITY MONITORING DATA

July 2013

Massachusetts Department of Environmental Protection
Division of Watershed Management
DWM Control Number CN 224.5

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS
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Introduction

The purpose of this technical memorandum is to publish water quality data collected for the development of nutrient criteria for lakes as well as baseline lake survey data collected in 2005 by the Massachusetts Department of Environmental Protection (MassDEP), Division of Watershed Management (DWM) (MassDEP 2005a). The nutrient criteria lakes were selected to examine deep (>40 feet), coldwater lakes in order to determine the relationship between 'trout space' (a horizontal strata of water in a lake that is both cold and rich in dissolved oxygen) and total phosphorus concentrations. These lakes were sampled once in late summer. A second group of lakes were sampled as part of a baseline lake survey in the Buzzards Bay watershed and these lakes were sampled three times during the summer. Water quality samples were analyzed for nutrients, chlorophyll-*a*, Secchi disk transparency, as well as dissolved oxygen and other field measurements. Field notes were taken on presence of invasive aquatic plants.

Project Objectives

The Lake Nutrient Criteria survey of 2005 focused on obtaining information to meet the following objectives (MassDEP 2005a):

1) To provide data to develop new nutrient criteria for lakes. This may include development of a lakes classification system. Specifically, the objective for this year is to establish a relationship between nutrient (total phosphorus) concentrations and the maintenance of trout space (cold oxygenated water) in the hypolimnion of the lakes.
2) To provide data to determine if a lake should be listed on the 303d list of waters not meeting Water Quality Standards.
3) To provide data to develop TMDLs for lakes on the 303d integrated list category 5.
4) To provide data for 305b assessment purposes.

The Buzzards Bay Baseline Lakes Survey of 2005 (MassDEP 2005b) focused on six lakes impacted by Cranberry Bog operations. A seventh lake (Thihonet Pond) was targeted for sampling but permission to access was refused by A.D. Makepeace Company. The scope of work for the remaining six lakes was:

Baseline lake monitoring for designated use assessment (and in support of two MA DEP projects: Nutrient Criteria Development and Cranberry Bog Phosphorus Dynamics for TMDL Development) will be conducted at seven lakes in the Buzzards Bay Watershed. Water quality sampling will be conducted three times over the summer. Water quality parameters will include total phosphorus, chlorophyll α, color, turbidity and Secchi depth. On each occasion in each lake, in-situ profile measurements for dissolved oxygen, percent saturation, temperature, specific conductivity and pH will be taken.

Sampling Plan

Lakes

The deep nutrient criteria lakes listed in Table 1 below, will be sampled once during late summer stratification. Sampling of these deep lakes is targeted at the deep hole or mid-lake station at the critical time period of late summer stratification (Mid-July through mid-September). Note Russell Pond was incorrectly targeted as a deep lake but sampled nevertheless.

Table 1. Nutrient Criteria Deep Lakes Sampled.

unique_id	Palis	WBNAME	TOWN	Depth Ft	Area Ha
W1289	21043	Goose Pond	Lee	45	97.2
W1290	21078	Onota Lake	Pittsfield	64	246.7
W1291	21105	Stockbridge Bowl;	Stockbridge	53	157
W1292	32054	Norwich Pd	Huntington	48	47.8
W1293	32076	Windsor Pond	Windsor	52	17.7
W1294	35053	Packard Pond	Orange	43	18.4
W1083	36084	Lake Lorraine	Springfield	36	11.4
W1221	41001	Alum Pond	Sturbridge	45	79.2
W1295	42064	Webster L;	Webster	41	476
W1085	51125	Lake Quinsigamond	Shrewsbury	84	285
W1087	71019	Horn Pond	Woburn	40	40
W1296	71043	Upper Mystic Lake	Winchester	82	64
W1297	72039	Farm Pond	Sherborn	50	45.4
W0973	72052	Jamaica Pond	Boston	53	23.4
W0603	81046	Fort Pond	Lancaster	48	30
W1298	81085	Mirror Lake	Harvard	58	10.8
W1299	81132	Spectacle Pd	Lancaster	58	22.8
W1300 *	82061	Hopkinton Res	Hopkinton	53	66.5
W1301	82112	Waushakum Pd	Framingham	53	31.7
W1302	82118	White Pond	Concord	56	15
W1090	82125	Lake Cochituate Mid	Natick	51	51.5
W1303	84036	Baddacook Pd	Groton	48	29.8
W0608	91001	Baldpate Pd	Boxford	41	22.1
W1304	93071	Sluice Pond	Lynn	63	15.8
W1305	94133	Russell Pond	Kingston	10	4.2
W1306	96004	Ashumet Pond	Mashpee	65	79.6
W1307	96091	Flax Pond	Brewster	72	18.4
W1308	96194	Mashpee Pd	Mashpee	84	152
W1309	96279	Scargo Lake	Dennis	48	21.2
W1310	96307	Spectacle Pond	Sandwich	43	33.7

* Indian Brook/Hopkinton Reservoir is an impoundment (also SARIS # 8248400 for Indian Brook)

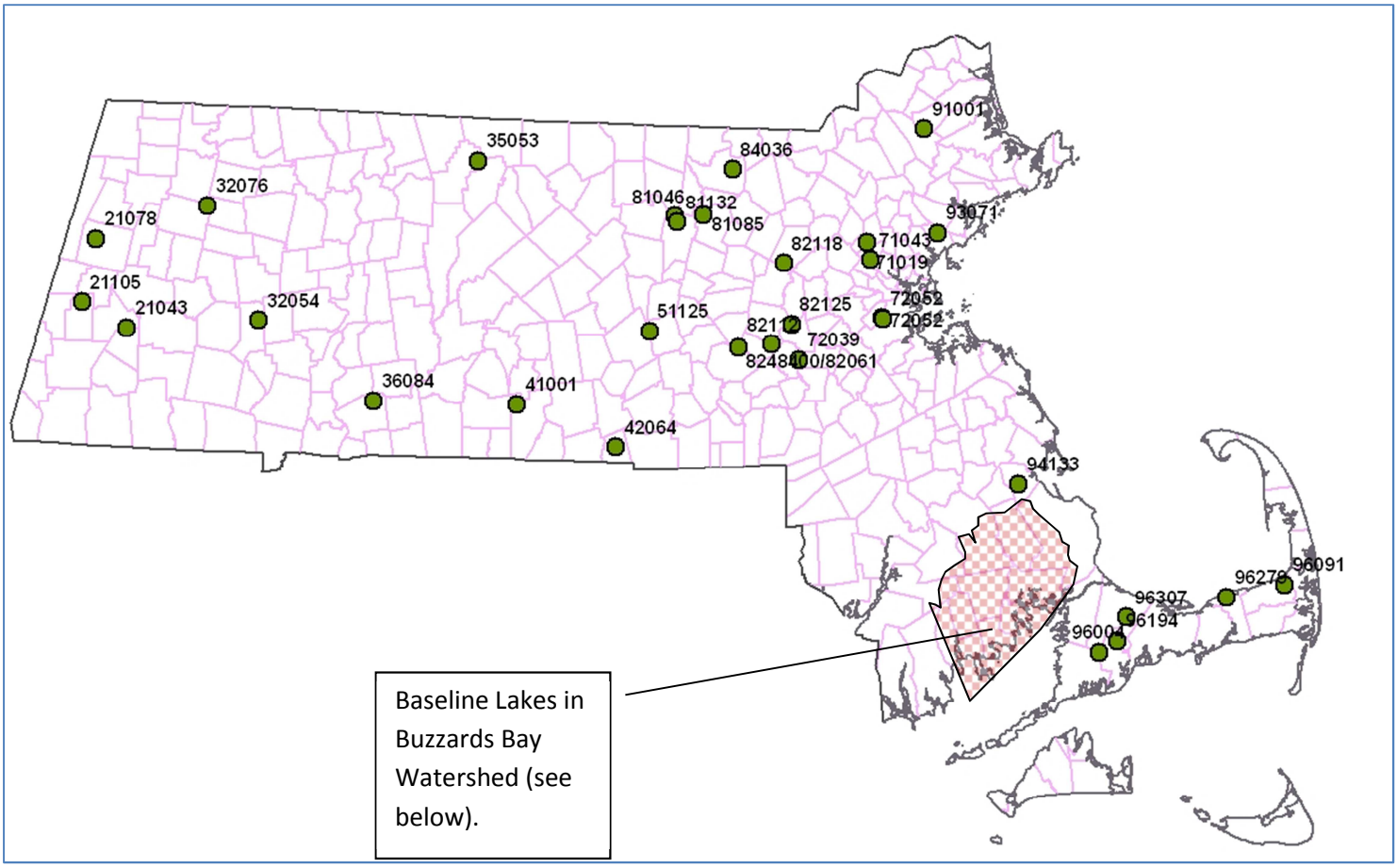


Figure 1. Location of Nutrient Criteria Lakes (and Buzzard Bay Baseline Lakes area).

The six baseline lakes in Buzzard Bay watershed are listed in Table 2.

The lakes listed in Table 1 below, will be sampled once at the deep hole or mid-lake station during summer stratification. Sampling is targeted to the critical time period of late summer stratification (Mid-July through mid-September).

Table 2. Baseline Lakes Sampled.

unique_id	Palis	WBNAME	TOWN	Depth Ft	Area Ha
W4101	95044	Dunham Pond	Carver	18	18
W1404	95080	Leonards Pond	Rochester	7	21
W1403	95100	Marys Pond	Rochester	32	33
W1402	95125	Sampson Pond	Carver	15	125
W1405	95137	Snipatuit Pond	Rochester	7	287
W1400	95158	Wenham Pond	Carver	9	20

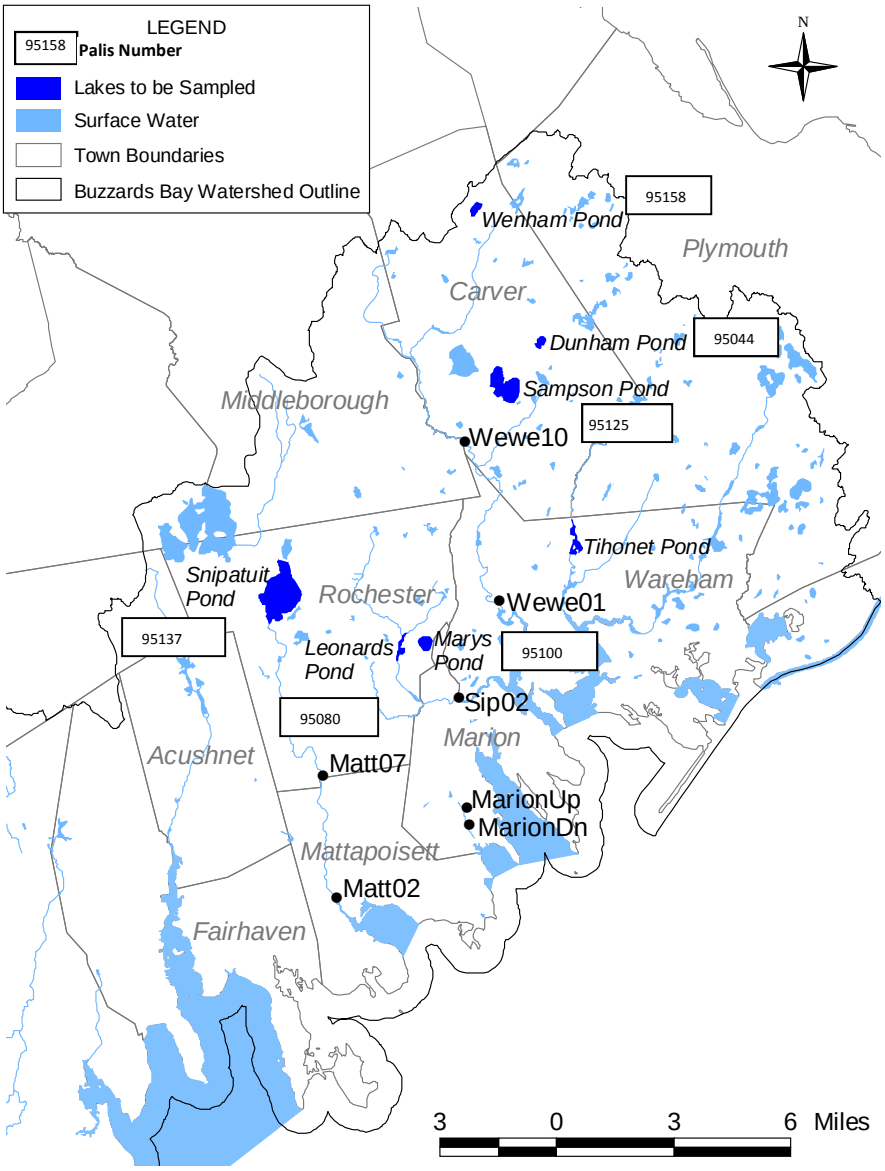


Figure 2.MassDEP DWM 2005 Baseline monitoring station locations in the Lakes (dark blue with PALIS numbers) of the Buzzards Bay Watershed.

Grab samples for total phosphorus, phytoplankton/chlorophyll a, and color were collected from the deep-hole station of the lakes on three occasions. Temperature, dissolved oxygen, % oxygen saturation, pH, specific conductance and total dissolved solids profiles were also collected from the deep-hole station using multi-probe meters. Secchi disk transparency depths were also recorded. The presence of exotic aquatic macrophytes were noted on fieldsheets.

Quality Assurance (QA) and Quality Control (QC)

Quality assurance and quality control procedures used in collecting samples and measurements were consistent with the prevailing DWM protocols that are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004a), CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.4 - Multi-probe Deployments for Unattended Logging (MassDEP 2004b).

The DWM quality assurance and database management staff reviewed lab data reports and all multi-probe data. The data were validated and finalized per data validation procedures outlined in CN 56.15 - DWM Water Quality Data Validation Process (Summary) (MassDEP 2012a). All water quality sample data were validated by reviewing QC sample results, analytical holding time compliance, QC sample frequency and related ancillary data/documentation (at a minimum). A complete summary of the data review process for all 2005 DWM data is provided in CN 280.0 – Data Validation Report for Year 2005 Project Data (MassDEP 2007).

Field and Analytical Methods

Procedures used for water quality sampling and sample handling are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004a). The Wall Experiment Station (WES) supplied all sample bottles and field preservatives, which were prepared according to the WES Laboratory Quality Assurance Plan and Standard Operating Procedures (MassDEP 2001). Procedures used for multi-probe calibration and deployment are described in CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.4 - Multi-probe Deployments for Unattended Logging (MassDEP 2004b).

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Observed uses (e.g. swimming, boating, fishing), potential pollution sources, the presence/absence of objectionable deposits (trash, debris and scum, odor), the extent of algae and aquatic plant growth over the entire lake, the presence of exotic macrophytes, and sampling conditions were all noted for each lake.

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are described below in Table 5 for each sampling event (MassDEP 2006c).

Table 3 Field Observations.

Palis	Name	DATE	Odor	Clarity	Algal density	Scum	Objectional Deposits	Secchi (m)	Secchi Viewfinder	Secchi on Bottom	Maximum Depth (m)
81046	Fort Pond	8/2/2005	None	Clear	Sparse	No	No	7.7	Yes	No	15
91001	Baldpate Pd	8/10/2005	None	Clear	None	No	No	4.5	Yes	No	14
72052	Jamaica Pond	9/13/2005	None	Slightly Turbid	Sparse	No	No	3.2	Yes	No	14
36084	Lake Lorraine	9/6/2005	None	Moderately Turbid	Sparse	No	No	5.5	**	**	10.4
51125	Lake Quinsigamond	8/16/2005	None	Slightly Turbid	None	No	No	3.9	Yes	No	25
71019	Horn Pond	8/23/2005	None	Clear	Sparse	No	No	3.8	Yes	No	13.1
82125	Lake Cochituate Mid	9/13/2005	None	Slightly Turbid	Sparse	No	No	3.9	Yes	No	15.2
41001	Alum Pond	9/7/2005	None	Clear	Sparse	No	No	7.4	Yes	No	11.3
21043	Goose Pond	8/24/2005	None	Clear	None	No	No	5	Yes	**	14.5

Palis	Name	DATE	Odor	Clarity	Algal density	Scum	Objectional Deposits	Secchi (m)	Secchi Viewfinder	Secchi on Bottom	Maximum Depth (m)
21078	Onota Lake	8/23/2005	None	Clear	Sparse	No	Yes	4.4	Yes	No	19.7
21105	Stockbridge Bowl;	8/24/2005	None	NR	None	No	No	-8	**	**	-8
32054	Norwich Pd	9/6/2005	None	Slightly Turbid	Sparse	No	No	5.4	Yes	No	14.6
32076	Windsor Pond	8/23/2005	None	Slightly Turbid	Sparse	No	No	3	**	**	15.8
35053	Packard Pond	8/17/2005	None	Clear	None	No	No	2.4	Yes	No	12.8
42064	Webster L;	9/7/2005	None	Clear	Sparse	No	No	6.8	Yes	No	13.5
71043	Upper Mystic Lake	8/10/2005	None	Slightly Turbid	None	No	No	2.4	Yes	No	24
72039	Farm Pond	9/13/2005	None	Clear	None	No	No	7.7	Yes	No	17.7
81085	Mirror Lake	8/3/2005	None	Clear	None	No	No	8.3	Yes	No	20
81132	Spectacle Pd	8/3/2005	None	Clear	Sparse	No	No	5.5	Yes	No	15.9

Palis	Name	DATE	Odor	Clarity	Algal density	Scum	Objectional Deposits	Secchi (m)	Secchi Viewfinder	Secchi on Bottom	Maximum Depth (m)
82061	Hopkinton Res	8/23/2005	None	Clear	None	No	No	3.6	Yes	No	14
82112	Waushakum Pd	8/17/2005	None	Moderately Turbid	Very Dense	No	No	1.2	**	**	14.3
82118	White Pond	9/13/2005	None	Clear	None	No	No	7.4	Yes	No	19.1
84036	Baddacook Pd	8/2/2005	None	Clear	Sparse	NR	No	3.9	Yes	No	14.6
93071	Sluice Pond	8/10/2005	None	Slightly Turbid	Sparse	No	No	4.8	Yes	No	19
94133	Russell Pond	8/30/2005	None	Clear	Sparse	No	No	3	Yes	Yes	3
96004	Ashumet Pond	8/31/2005	None	Clear	Sparse	No	No	3.5	Yes	No	20.4
96091	Flax Pond	9/1/2005	None	Clear	None	No	No	9	Yes	No	22.5
96194	Mashpee Pd	8/31/2005	None	Clear	Sparse	No	No	5.5	Yes	No	29.8
96279	Scargo Lake	9/1/2005	None	Clear	Sparse	No	No	4.5	Yes	No	14.2

Palis	Name	DATE	Odor	Clarity	Algal density	Scum	Objectional Deposits	Secchi (m)	Secchi Viewfinder	Secchi on Bottom	Maximum Depth (m)
96307	Spectacle Pond	8/30/2005	None	Clear	None	No	No	6.8	Yes	No	12.8
95158	Wenham Pond	7/5/2005	None	Slightly Turbid	Moderate	No	No	2.3	Yes	No	2.7
95158	Wenham Pond	8/11/2005	None	Slightly Turbid	Moderate	No	No	2.1	Yes	No	2.8
95158	Wenham Pond	9/1/2005	None	Slightly Turbid	Sparse	No	No	1.3	Yes	No	2.6
95044	Dunham Pond	7/5/2005	None	Slightly Turbid	Sparse	No	No	3.4	Yes	No	6
95044	Dunham Pond	8/11/2005	None	Slightly Turbid	Very Dense	No	Yes	2.4	Yes	No	5.5
95044	Dunham Pond	9/1/2005	None	Highly Turbid	Dense	No	No	1.05	Yes	No	5.2
95125	Sampson Pond	7/6/2005	None	Slightly Turbid	Moderate	No	No	2.5	Yes	No	4.6
95125	Sampson Pond	8/15/2005	None	NR	Sparse	No	No	3.1	Yes	No	4.3
95125	Sampson Pond	9/7/2005	None	Slightly Turbid	Dense	Yes	Yes	2.8	Yes	No	4.2

Palis	Name	DATE	Odor	Clarity	Algal density	Scum	Objectional Deposits	Secchi (m)	Secchi Viewfinder	Secchi on Bottom	Maximum Depth (m)
95100	Marys Pond	7/7/2005	None	Clear	None	Yes	No	5.8	Yes	No	9.7
95100	Marys Pond	8/4/2005	None	Clear	NR	No	No	7.2	Yes	No	9.1
95100	Marys Pond	9/6/2005	None	Clear	Sparse	No	No	7.2	Yes	No	8.8
95080	Leonards Pond	7/7/2005	None	Clear	NR	No	Yes	1	Yes	No	2.5
95080	Leonards Pond	8/4/2005	Sulfide	Slightly Turbid	NR	Yes	Yes	1	Yes	No	2
95080	Leonards Pond	9/6/2005	None	Slightly Turbid	Sparse	Yes	Yes	0.8	No	No	2.1
95137	Snipatuit Pond	7/14/2005	None	Slightly Turbid	None	No	No	1.6	Yes	No	1.9
95137	Snipatuit Pond	8/15/2005	None	Slightly Turbid	Sparse	No	No	1.5	Yes	No	1.8
95137	Snipatuit Pond	9/7/2005	None	NR	None	No	No	1.5	Yes	No	2.1

Palis	Name	DATE	LakePlantCover	Duckweed	Trapa	Cabomba	P_crispus	Egeria	Nymphoides_pelt (yellow)	Lythrum	Najas_minor	Phragmites	Milfoil	M_spicatum	M_heterophyllum	M_aquaticum	Other
81046	Fort Pond	8/2/2005	Sparse	no													
91001	Baldpate Pd	8/10/2005	Moderate	no		X				X							
72052	Jamaica Pond	9/13/2005	Sparse	no													
36084	Lake Lorraine	9/6/2005	Sparse	no						X							
51125	Lake Quinsigamond	8/16/2005	Unobservable	NR													
71019	Horn Pond	8/23/2005	None	no													
82125	Lake Cochituate Mid	9/13/2005	Sparse	no			X							X			
41001	Alum Pond	9/7/2005	Sparse	no													
21043	Goose Pond	8/24/2005	None	no													

Palis	Name	DATE	LakePlantCover	Duckweed	Trapa	Cabomba	P_crispus	Egeria	Nymphoides_pelt (yellow)	Lythrum	Najas_minor	Phragmites	Milfoil	M_spicatum	M_heterophyllum	M_aquaticum	Other
21078	Onota Lake	8/23/2005	Sparse	no									X	X			
21105	Stockbridge Bowl;	8/24/2005	None	NR													
32054	Norwich Pd	9/6/2005	Sparse	no													
32076	Windsor Pond	8/23/2005	Sparse	no													
35053	Packard Pond	8/17/2005	None	no													
42064	Webster L;	9/7/2005	Sparse	no		X				X			X				
71043	Upper Mystic Lake	8/10/2005	Sparse	no													
72039	Farm Pond	9/13/2005	Sparse	no													
81085	Mirror Lake	8/3/2005	Sparse	no													
81132	Spectacle Pd	8/3/2005	Sparse	no													

Palis	Name	DATE	LakePlantCover	Duckweed	Trapa	Cabomba	P_crispus	Egeria	Nymphoides_pelt (yellow)	Lythrum	Najas_minor	Phragmites	Milfoil	M_spicatum	M_heterophyllum	M_aquaticum	Other
82061	Hopkinton Res	8/23/2005	Sparse	no													
82112	Waushakum Pd	8/17/2005	Sparse	no						X							
82118	White Pond	9/13/2005	Sparse	no													
84036	Baddacook Pd	8/2/2005	Moderate	no		X				X			X		X		
93071	Sluice Pond	8/10/2005	Sparse	no													
94133	Russell Pond	8/30/2005	Moderate	no		X											
96004	Ashumet Pond	8/31/2005	None	no						X							
96091	Flax Pond	9/1/2005	Sparse	no						X							
96194	Mashpee Pd	8/31/2005	Sparse	no								X					
96279	Scargo Lake	9/1/2005	Sparse	no													

Palis	Name	DATE	LakePlantCover	Duckweed	Trapa	Cabomba	P_crispus	Egeria	Nymphoides_pelt (yellow)	Lythrum	Najas_minor	Phragmites	Milfoil	M_spicatum	M_heterophyllum	M_aquaticum	Other
96307	Spectacle Pond	8/30/2005	Unobservable	NR													
95158	Wenham Pond	7/5/2005	Sparse	no													
95158	Wenham Pond	8/11/2005	Sparse	no													
95158	Wenham Pond	9/1/2005	Sparse	yes*													
95044	Dunham Pond	7/5/2005	Sparse	no													
95044	Dunham Pond	8/11/2005	Sparse	no													
95044	Dunham Pond	9/1/2005	Sparse	no													
95125	Sampson Pond	7/6/2005	Sparse	no		X							X		X		X
95125	Sampson Pond	8/15/2005	Sparse	NR													
95125	Sampson Pond	9/7/2005	NR	yes													

Palis	Name	DATE	LakePlantCover	Duckweed	Trapa	Cabomba	P_crispus	Egeria	Nymphoides_pelt (yellow)	Lythrum	Najas_minor	Phragmites	Milfoil	M_spicatum	M_heterophyllum	M_aquaticum	Other
95100	Marys Pond	7/7/2005	None	NR													
95100	Marys Pond	8/4/2005	Sparse	no													
95100	Marys Pond	9/6/2005	Sparse	NR													
95080	Leonards Pond	7/7/2005	Dense	yes									X		X		
95080	Leonards Pond	8/4/2005	VeryDense	yes													
95080	Leonards Pond	9/6/2005	VeryDense	yes													
95137	Snipatuit Pond	7/14/2005	Sparse	NR													
95137	Snipatuit Pond	8/15/2005	NR	no		X											
95137	Snipatuit Pond	9/7/2005	NR	no								X					

*Wenham Pond on 9/1/2005 was reported with 0.5% areal coverage of duckweed. Areal coverage on other ponds not reported.

Survey Conditions

The nutrient criteria lake surveys spanned the entire state and thus a summary of the weather conditions for the entire state. For further information contact the Department of Conservation and Recreation website:
http://www.mass.gov/eea/agencies/dcr/water-res-protection/water-data-tracking/precipitation-composite-current-conditions.html

Precipitation and stream discharge data
May 2005 condition summary:

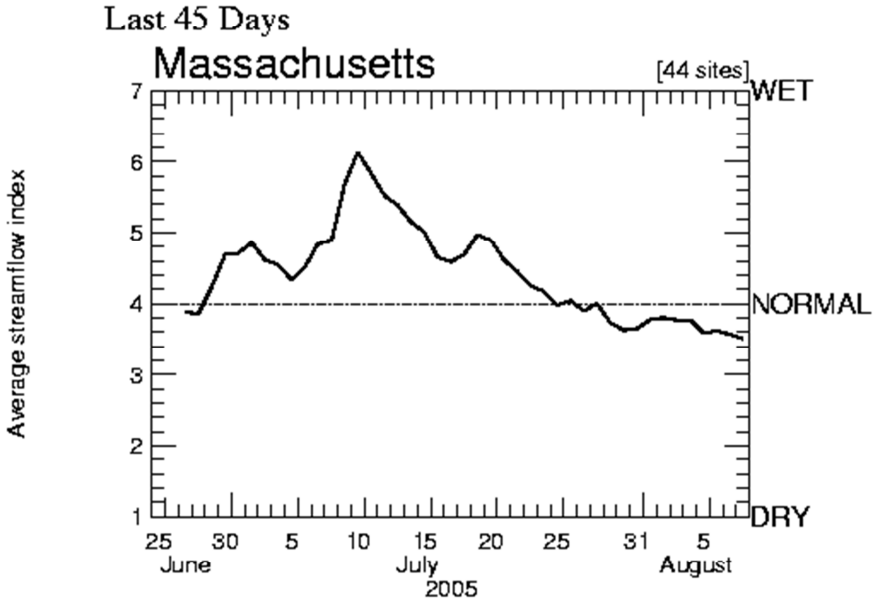
- May precipitation above normal in coastal regions; below normal in west and CT River valley regions.
- May streamflow above normal in coastal regions.
- May ground water levels normal and above normal, but a small area of below normal in northwest MA.
- Reservoir levels normal or above normal.

- June precipitation below normal in coastal regions; slightly above normal in west and CT River valley regions.
- June streamflow normal.
- June ground water levels normal.
- Reservoir levels normal.

- July precipitation below normal in southeast, Cape Cod regions.
- Below normal precipitation since July 9 regionally; drought criteria not yet met.
- July streamflow normal.
- July ground water levels normal.
- Reservoir levels normal.

- August precipitation much below normal for Cape Cod and Islands. 3-Month precipitation much below normal for this region.
- Drought Management Task Force meeting scheduled.
- August streamflow normal and below normal
- August ground water levels normal, above normal, and below normal.
- Reservoir levels normal; some areas below normal.

- September precipitation much below normal except for Southeast, Cape Cod and Islands.
- September streamflow below normal and normal.
- September ground water levels normal, above normal, and below normal.
- Reservoir levels normal; some below normal.


Last 45 Days
Massachusetts
[44 sites]
WET
NORMAL
DRY
Average streamflow index
7
6
5
4
3
2
1
25
30
5
10
15
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25
31
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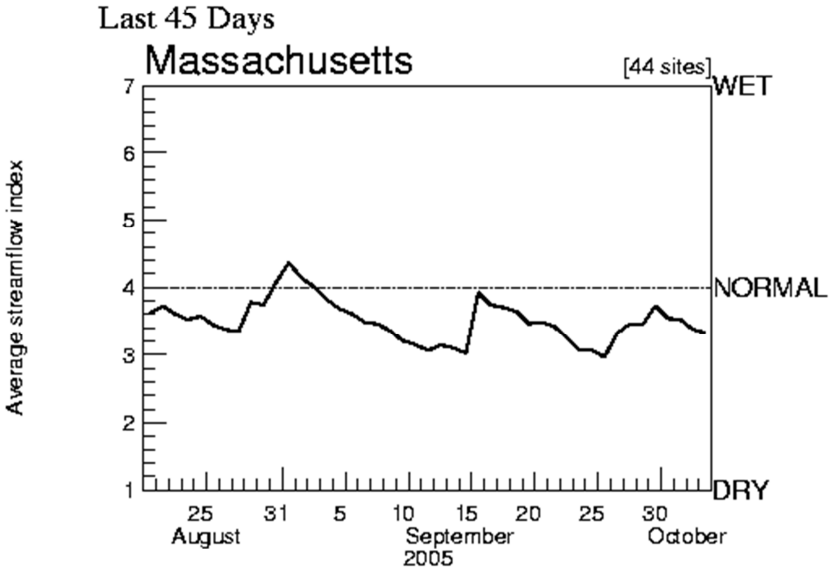
June
July
August
2005


Last 45 Days
Massachusetts
[44 sites]
WET
NORMAL
DRY
Average streamflow index
7
6
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1
25
31
5
10
15
20
25
30
August
September
October
2005

KEY:

1 = New record low for day
2 = < 10th percentile
3 = 10th – 24th percentile
4 = 25th – 74th percentile
5 = 75th – 89th percentile
6 = ≥ 90th percentile
7 = New record high for day

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database (WQD). Tables 5 and 6 below provide the 2006 Farmington River Watershed water quality data. The procedures used to accept, accept with qualification or censor data are based on the DWM Standard Operating Procedures (SOP) for data validation and usability (MassDEP 2012a), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by WES. Definitions for the data qualifiers are provided in Appendix 1. Relative sample depth codes are follows: s=surface; md=mid-depth and nb=near bottom.

Table 4. Laboratory Data for Lake Samples.

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
21043	Goose Pond	W1289	8/24/2005	15:40	0.5	s	Apparent color	PCU	<15	--
21043	Goose Pond	W1289	8/24/2005	15:40	0.5	s	Total Phosphorus	mg/L	0.008	--
21043	Goose Pond	W1289	8/24/2005	15:40	0.5	s	True Color	PCU	**	--
21043	Goose Pond	W1289	8/24/2005	15:48	13.5	nb	Total Phosphorus	mg/L	0.035	--
21043	Goose Pond	W1289	8/24/2005	16:00	0-8.0	integrated	chlorophyll a	mg/m3	2.2	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	Apparent color	PCU	<15	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	Total Phosphorus	mg/L	0.009	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	True Color	PCU	<15	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	Apparent color	PCU	<15	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	Total Phosphorus	mg/L	0.009	--
21078	Onota Lake	W1290	8/23/2005	12:25	0.5	s	True Color	PCU	<15	--
21078	Onota Lake	W1290	8/23/2005	12:35	18.5	nb	Total Phosphorus	mg/L	0.14	--
21078	Onota Lake	W1290	8/23/2005	12:50	0-6.5	integrated	chlorophyll a	mg/m3	2.2	--
21078	Onota Lake	W1290	8/23/2005	12:55	0-6.5	integrated	chlorophyll a	mg/m3	1.9	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	Apparent color	PCU	<15	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	Total Phosphorus	mg/L	0.008	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	True Color	PCU	**	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	Apparent color	PCU	<15	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	Total Phosphorus	mg/L	0.008	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:42	0.5	s	True Color	PCU	**	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
21105	Stockbridge Bowl	W1291	8/24/2005	12:05	**	nb	Total Phosphorus	mg/L	0.14	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:55	0-8.0	integrated	chlorophyll a	mg/m3	2.8	--
21105	Stockbridge Bowl	W1291	8/24/2005	11:55	0-8.0	integrated	chlorophyll a	mg/m3	2.7	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	Apparent color	PCU	<15	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	Total Phosphorus	mg/L	0.008	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	True Color	PCU	**	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	Apparent color	PCU	<15	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	Total Phosphorus	mg/L	0.008	--
32054	Norwich Pond	W1292	9/6/2005	10:45	0.5	s	True Color	PCU	**	--
32054	Norwich Pond	W1292	9/6/2005	11:05	13.5	nb	Total Phosphorus	mg/L	0.064	--
32054	Norwich Pond	W1292	9/6/2005	11:15	0-6.5	integrated	chlorophyll a	mg/m3	5.3	--
32054	Norwich Pond	W1292	9/6/2005	11:20	0-6.5	integrated	chlorophyll a	mg/m3	4.9	--
32076	Windsor Pond	W1293	8/23/2005	15:45	0.5	s	Apparent color	PCU	45	--
32076	Windsor Pond	W1293	8/23/2005	15:45	0.5	s	Total Phosphorus	mg/L	0.013	--
32076	Windsor Pond	W1293	8/23/2005	15:45	0.5	s	True Color	PCU	30	--
32076	Windsor Pond	W1293	8/23/2005	15:50	14.8	nb	Total Phosphorus	mg/L	0.020	--
32076	Windsor Pond	W1293	8/23/2005	15:55	0-6.5	integrated	chlorophyll a	mg/m3	4.0	--
35053	Packard Pond	W1294	8/17/2005	10:20	0.5	s	Apparent color	PCU	70	--
35053	Packard Pond	W1294	8/17/2005	10:20	0.5	s	Total Phosphorus	mg/L	0.015	--
35053	Packard Pond	W1294	8/17/2005	10:20	0.5	s	True Color	PCU	60	--
35053	Packard Pond	W1294	8/17/2005	10:30	11.8	nb	Total Phosphorus	mg/L	0.054	--
35053	Packard Pond	W1294	8/17/2005	10:40	0-7.2	integrated	chlorophyll a	mg/m3	4.8	--
36084	Lake Lorraine	W1083	9/6/2005	14:10	0.5	s	Apparent color	PCU	<15	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
36084	Lake Lorraine	W1083	9/6/2005	14:10	0.5	s	Total Phosphorus	mg/L	0.009	--
36084	Lake Lorraine	W1083	9/6/2005	14:10	0.5	s	True Color	PCU	**	--
36084	Lake Lorraine	W1083	9/6/2005	14:20	9.4	nb	Total Phosphorus	mg/L	0.014	--
36084	Lake Lorraine	W1083	9/6/2005	14:30	0-6.5	integrated	chlorophyll a	mg/m3	2.0	--
41001	Alum Pond	W1221	9/7/2005	14:05	0.5	s	Apparent color	PCU	<15	--
41001	Alum Pond	W1221	9/7/2005	14:05	0.5	s	Total Phosphorus	mg/L	0.005	--
41001	Alum Pond	W1221	9/7/2005	14:05	0.5	s	True Color	PCU	**	--
41001	Alum Pond	W1221	9/7/2005	14:10	10.5	nb	Total Phosphorus	mg/L	0.062	--
41001	Alum Pond	W1221	9/7/2005	14:15	0-10.5	integrated	chlorophyll a	mg/m3	5.1	h
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	Apparent color	PCU	<15	--
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	Total Phosphorus	mg/L	0.007	--
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	True Color	PCU	**	--
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	Apparent color	PCU	<15	--
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	Total Phosphorus	mg/L	0.006	--
42064	Webster Lake	W1295	9/7/2005	10:36	0.5	s	True Color	PCU	**	--
42064	Webster Lake	W1295	9/7/2005	10:31	12.5	nb	Total Phosphorus	mg/L	0.019	--
42064	Webster Lake	W1295	9/7/2005	10:47	0-12.5	integrated	chlorophyll a	mg/m3	3.5	h
42064	Webster Lake	W1295	9/7/2005	10:50	0-12.5	integrated	chlorophyll a	mg/m3	3.8	h
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Apparent color	PCU	<15	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Total Phosphorus	mg/L	0.011	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	True Color	PCU	**	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Turbidity	NTU	1.3	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Apparent color	PCU	<15	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Total Phosphorus	mg/L	0.012	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	True Color	PCU	**	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:17	0.5	s	Turbidity	NTU	1.1	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:25	**	nb	Total Phosphorus	mg/L	0.019	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:15	**	integrated	chlorophyll a	mg/m3	3.8	--
51125	Lake Quinsigamond	W1085	8/16/2005	13:16	**	integrated	chlorophyll a	mg/m3	3.5	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	Apparent color	PCU	30	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	Total Phosphorus	mg/L	0.013	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	True Color	PCU	30	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	Apparent color	PCU	30	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	Total Phosphorus	mg/L	0.014	--
71019	Horn Pond	W1087	8/23/2005	11:10	0.5	s	True Color	PCU	30	--
71019	Horn Pond	W1087	8/23/2005	11:20	4.5	m	chlorophyll a	mg/m3	8.0	--
71019	Horn Pond	W1087	8/23/2005	11:12	12.1	nb	Total Phosphorus	mg/L	1.2	--
71019	Horn Pond	W1087	8/23/2005	11:50	0-8.0	integrated	chlorophyll a	mg/m3	8.6	--
71019	Horn Pond	W1087	8/23/2005	11:52	0-8.0	integrated	chlorophyll a	mg/m3	9.6	--
71043	Upper Mystic Lake	W1296	8/10/2005	11:30	0.5	s	Apparent color	PCU	15	--
71043	Upper Mystic Lake	W1296	8/10/2005	11:30	0.5	s	Total Phosphorus	mg/L	0.015	--
71043	Upper Mystic Lake	W1296	8/10/2005	11:30	0.5	s	True Color	PCU	15	--
71043	Upper Mystic Lake	W1296	8/10/2005	11:47	23.0	nb	Total Phosphorus	mg/L	0.16	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
71043	Upper Mystic Lake	W1296	8/10/2005	11:40	**	integrated	chlorophyll a	mg/m3	8.2	--
72039	Farm Pond	W1297	9/13/2005	11:05	0.5	s	Apparent color	PCU	<15	--
72039	Farm Pond	W1297	9/13/2005	11:05	0.5	s	Total Phosphorus	mg/L	0.010	--
72039	Farm Pond	W1297	9/13/2005	11:05	0.5	s	True Color	PCU	**	--
72039	Farm Pond	W1297	9/13/2005	11:01	16.7	nb	Total Phosphorus	mg/L	0.29	--
72039	Farm Pond	W1297	9/13/2005	10:50	0-6.5	integrated	chlorophyll a	mg/m3	2.6	h
72052	Jamaica Pond	W0973	9/13/2005	13:40	0.5	s	Apparent color	PCU	20	--
72052	Jamaica Pond	W0973	9/13/2005	13:40	0.5	s	Total Phosphorus	mg/L	0.013	--
72052	Jamaica Pond	W0973	9/13/2005	13:40	0.5	s	True Color	PCU	<15	--
72052	Jamaica Pond	W0973	9/13/2005	13:42	0.5	s	Apparent color	PCU	18	--
72052	Jamaica Pond	W0973	9/13/2005	13:42	0.5	s	Total Phosphorus	mg/L	0.010	--
72052	Jamaica Pond	W0973	9/13/2005	13:42	0.5	s	True Color	PCU	<15	--
72052	Jamaica Pond	W0973	9/13/2005	14:00	13.0	nb	Total Phosphorus	mg/L	0.76	--
72052	Jamaica Pond	W0986	9/13/2005	14:40	--	--	Total Phosphorus	mg/L	0.021	--
72052	Jamaica Pond	W0973	9/13/2005	13:48	0-6.5	integrated	chlorophyll a	mg/m3	7.9	h
72052	Jamaica Pond	W0973	9/13/2005	13:50	0-6.5	integrated	chlorophyll a	mg/m3	7.9	h
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	Apparent color	PCU	20	--
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	Total Phosphorus	mg/L	0.006	--
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	True Color	PCU	18	--
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	Apparent color	PCU	26	--
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	Total Phosphorus	mg/L	0.006	--
81046	Fort Pond	W0603	8/2/2005	14:05	0.5	s	True Color	PCU	24	--
81046	Fort Pond	W0603	8/2/2005	15:30	13.0	nb	Total Phosphorus	mg/L	0.76	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
81046	Fort Pond	W0603	8/2/2005	14:30	0-8.0	integrated	chlorophyll a	mg/m3	1.4	--
81046	Fort Pond	W0603	8/2/2005	14:30	0-8.0	integrated	chlorophyll a	mg/m3	1.3	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	Apparent color	PCU	<15	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	Total Phosphorus	mg/L	<0.005	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	True Color	PCU	**	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	Apparent color	PCU	<15	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	Total Phosphorus	mg/L	<0.005	--
81085	Mirror Lake	W1298	8/3/2005	11:13	0.5	s	True Color	PCU	**	--
81085	Mirror Lake	W1298	8/3/2005	11:45	19.0	nb	Total Phosphorus	mg/L	0.18	--
81085	Mirror Lake	W1298	8/3/2005	11:25	0-6.5	integrated	chlorophyll a	mg/m3	<1	--
81085	Mirror Lake	W1298	8/3/2005	11:25	0-6.5	integrated	chlorophyll a	mg/m3	<1	--
81132	Spectacle Pond	W1299	8/3/2005	14:35	0.5	s	Apparent color	PCU	<15	--
81132	Spectacle Pond	W1299	8/3/2005	14:35	0.5	s	Total Phosphorus	mg/L	<0.005	--
81132	Spectacle Pond	W1299	8/3/2005	14:35	0.5	s	True Color	PCU	**	--
81132	Spectacle Pond	W1299	8/3/2005	14:48	14.9	nb	Total Phosphorus	mg/L	0.10	--
81132	Spectacle Pond	W1299	8/3/2005	14:50	0-6.5	integrated	chlorophyll a	mg/m3	2.0	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	Apparent color	PCU	35	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	Total Phosphorus	mg/L	0.027	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	True Color	PCU	18	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	Apparent color	PCU	33	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	Total Phosphorus	mg/L	0.025	--
82112	Waushacum Pond	W1301	8/17/2005	15:00	0.5	s	True Color	PCU	16	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
82112	Waushacum Pond	W1301	8/17/2005	15:05	13.8	nb	Total Phosphorus	mg/L	1.1	--
82112	Waushacum Pond	W1301	8/17/2005	15:30	0-3.6	integrated	chlorophyll a	mg/m3	35.2	--
82112	Waushacum Pond	W1301	8/17/2005	15:35	0-3.6	integrated	chlorophyll a	mg/m3	34.4	--
82118	White Pond	W1302	9/13/2005	10:40	0.5	s	Apparent color	PCU	<15	--
82118	White Pond	W1302	9/13/2005	10:40	0.5	s	Total Phosphorus	mg/L	<0.005	--
82118	White Pond	W1302	9/13/2005	10:40	0.5	s	True Color	PCU	**	--
82118	White Pond	W1302	9/13/2005	11:00	18.0	nb	Total Phosphorus	mg/L	0.067	--
82118	White Pond	W1302	9/13/2005	11:15	0-14.0	integrated	chlorophyll a	mg/m3	4.9	h
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	Apparent color	PCU	23	--
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	Total Phosphorus	mg/L	0.010	--
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	True Color	PCU	18	--
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	Apparent color	PCU	28	--
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	Total Phosphorus	mg/L	0.009	--
82125	Lake Cochituate	W1090	9/13/2005	13:40	0.5	s	True Color	PCU	18	--
82125	Lake Cochituate	W1090	9/13/2005	13:50	14.2	nb	Total Phosphorus	mg/L	1.9	--
82125	Lake Cochituate	W1090	9/13/2005	13:45	0-11.7	integrated	chlorophyll a	mg/m3	4.7	h
82125	Lake Cochituate	W1090	9/13/2005	13:47	0-11.7	integrated	chlorophyll a	mg/m3	4.4	h
82061	INDIAN BROOK/Hopkinton Reservoir	W1300	8/23/2005	15:31	0.5	s	Apparent color	PCU	60	--
82061	INDIAN BROOK/Hopkinton Reservoir	W1300	8/23/2005	15:31	0.5	s	Total Phosphorus	mg/L	0.008	--
82061	INDIAN BROOK/Hopkinton Reservoir	W1300	8/23/2005	15:31	0.5	s	True Color	PCU	50	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
82061	INDIAN BROOK/Hopkinton Reservoir	W1300	8/23/2005	15:34	13.0	nb	Total Phosphorus	mg/L	0.013	--
82061	INDIAN BROOK/Hopkinton Reservoir	W1300	8/23/2005	15:38	0-8.0	integrated	chlorophyll a	mg/m3	2.5	--
84036	Baddacook Pond	W1303	8/2/2005	10:15	0.5	s	Apparent color	PCU	40	--
84036	Baddacook Pond	W1303	8/2/2005	10:15	0.5	s	Total Phosphorus	mg/L	0.014	--
84036	Baddacook Pond	W1303	8/2/2005	10:15	0.5	s	True Color	PCU	39	--
84036	Baddacook Pond	W1303	8/2/2005	11:40	13.0	nb	Total Phosphorus	mg/L	0.24	--
84036	Baddacook Pond	W1303	8/2/2005	10:30	0-8.0	integrated	chlorophyll a	mg/m3	5.7	--
91001	Baldpate Pond	W0608	8/10/2005	14:22	0.5	s	Apparent color	PCU	15	--
91001	Baldpate Pond	W0608	8/10/2005	14:22	0.5	s	Total Phosphorus	mg/L	0.009	--
91001	Baldpate Pond	W0608	8/10/2005	14:22	0.5	s	True Color	PCU	<15	--
91001	Baldpate Pond	W0608	8/10/2005	15:10	12.0	nb	Total Phosphorus	mg/L	0.16	--
91001	Baldpate Pond	W0608	8/10/2005	14:30	0-7.0	integrated	chlorophyll a	mg/m3	10.4	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	Apparent color	PCU	<15	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	Total Phosphorus	mg/L	0.009	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	True Color	PCU	**	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	Apparent color	PCU	<15	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	Total Phosphorus	mg/L	0.008	--
93071	Sluice Pond	W1304	8/10/2005	11:35	0.5	s	True Color	PCU	**	--
93071	Sluice Pond	W1304	8/10/2005	11:45	18.0	nb	Total Phosphorus	mg/L	0.24	--
93071	Sluice Pond	W1304	8/10/2005	11:32	0-7.0	integrated	chlorophyll a	mg/m3	3.4	--
93071	Sluice Pond	W1304	8/10/2005	11:30	0-7.0	integrated	chlorophyll a	mg/m3	3.0	--
94133	Russell Pond	W1305	8/30/2005	13:40	0.5	s	Apparent color	PCU	<15	j

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
94133	Russell Pond	W1305	8/30/2005	13:40	0.5	s	Total Phosphorus	mg/L	0.015	j
94133	Russell Pond	W1305	8/30/2005	13:40	0.5	s	True Color	PCU	**	--
94133	Russell Pond	W1305	8/30/2005	13:45	**	nb	Total Phosphorus	mg/L	0.019	j
94133	Russell Pond	W1305	8/30/2005	13:50	0-2.5	integrated	chlorophyll a	mg/m3	3.9	j
96004	Ashumet Pond	W1306	8/31/2005	13:25	0.5	s	Total Phosphorus	mg/L	0.017	--
96004	Ashumet Pond	W1306	8/31/2005	13:30	19.4	nb	Total Phosphorus	mg/L	0.31	--
96004	Ashumet Pond	W1306	8/31/2005	13:40	0-7.0	integrated	chlorophyll a	mg/m3	3.3	--
96091	Flax Pond	W1307	9/1/2005	10:45	0.5	s	Apparent color	PCU	<15	--
96091	Flax Pond	W1307	9/1/2005	10:45	0.5	s	Total Phosphorus	mg/L	0.009	--
96091	Flax Pond	W1307	9/1/2005	10:45	0.5	s	True Color	PCU	**	--
96091	Flax Pond	W1307	9/1/2005	10:50	0.5	s	Apparent color	PCU	<15	--
96091	Flax Pond	W1307	9/1/2005	10:50	0.5	s	Total Phosphorus	mg/L	0.010	--
96091	Flax Pond	W1307	9/1/2005	10:50	0.5	s	True Color	PCU	**	--
96091	Flax Pond	W1307	9/1/2005	11:00	21.5	nb	Total Phosphorus	mg/L	0.13	--
96091	Flax Pond	W1307	9/1/2005	11:10	0-14.0	integrated	chlorophyll a	mg/m3	1.5	--
96091	Flax Pond	W1307	9/1/2005	11:15	0-14.0	integrated	chlorophyll a	mg/m3	1.2	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	Apparent color	PCU	<15	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	Total Phosphorus	mg/L	0.013	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	True Color	PCU	**	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	Apparent color	PCU	<15	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	Total Phosphorus	mg/L	0.013	--
96194	Mashpee Pond	W1308	8/31/2005	10:15	0.5	s	True Color	PCU	**	--
96194	Mashpee Pond	W1308	8/31/2005	10:35	26.0	nb	Apparent color	PCU	<15	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
96194	Mashpee Pond	W1308	8/31/2005	10:35	26.0	nb	Total Phosphorus	mg/L	0.29	--
96194	Mashpee Pond	W1308	8/31/2005	10:35	26.0	nb	True Color	PCU	**	--
96194	Mashpee Pond	W1308	8/31/2005	10:50	0-7.0	integrated	chlorophyll a	mg/m3	3.1	--
96194	Mashpee Pond	W1308	8/31/2005	10:55	0-7.0	integrated	chlorophyll a	mg/m3	3.2	--
96279	Scargo Lake	W1309	9/1/2005	13:20	0.5	s	Apparent color	PCU	<15	--
96279	Scargo Lake	W1309	9/1/2005	13:20	0.5	s	Total Phosphorus	mg/L	0.010	--
96279	Scargo Lake	W1309	9/1/2005	13:20	0.5	s	True Color	PCU	**	--
96279	Scargo Lake	W1309	9/1/2005	13:30	13.2	nb	Total Phosphorus	mg/L	0.039	--
96279	Scargo Lake	W1309	9/1/2005	13:40	0-13.5	integrated	chlorophyll a	mg/m3	6.2	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	Apparent color	PCU	<15	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	Total Phosphorus	mg/L	0.008	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	True Color	PCU	**	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	Apparent color	PCU	<15	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	Total Phosphorus	mg/L	0.008	--
96307	Spectacle Pond	W1310	8/30/2005	10:55	0.5	s	True Color	PCU	**	--
96307	Spectacle Pond	W1310	8/30/2005	11:00	12.0	nb	Total Phosphorus	mg/L	0.013	--
96307	Spectacle Pond	W1310	8/30/2005	11:05	0-12.0	integrated	chlorophyll a	mg/m3	2.4	--
96307	Spectacle Pond	W1310	8/30/2005	11:10	0-12.0	integrated	chlorophyll a	mg/m3	2.4	--
95044	Dunham Pond	W1401	7/5/2005	12:53	0.5	s	Apparent color	PCU	25	--
95044	Dunham Pond	W1401	7/5/2005	12:53	0.5	s	True Color	PCU	17	--
95044	Dunham Pond	W1401	7/5/2005	12:53	0.5	s	Turbidity	NTU	1.6	--
95044	Dunham Pond	W1401	7/5/2005	12:53	0.5	s	Total Phosphorus	mg/L	##	b,d
95044	Dunham Pond	W1401	7/5/2005	12:55	0.5	s	Apparent color	PCU	25	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
95044	Dunham Pond	W1401	7/5/2005	12:55	0.5	s	True Color	PCU	15	--
95044	Dunham Pond	W1401	7/5/2005	12:55	0.5	s	Turbidity	NTU	1.8	--
95044	Dunham Pond	W1401	7/5/2005	12:55	0.5	s	Total Phosphorus	mg/L	##	b,d
95044	Dunham Pond	W1401	7/5/2005	13:10	5.5	nb	Apparent color	PCU	170	--
95044	Dunham Pond	W1401	7/5/2005	13:10	5.5	nb	True Color	PCU	120	--
95044	Dunham Pond	W1401	7/5/2005	13:10	5.5	nb	Turbidity	NTU	13.5	--
95044	Dunham Pond	W1401	7/5/2005	13:10	5.5	nb	Total Phosphorus	mg/L	##	b
95044	Dunham Pond	W1401	7/5/2005	13:00	0-5.5	integrated	chlorophyll a	mg/m3	82	--
95044	Dunham Pond	W1401	8/11/2005	15:33	0.5	s	Apparent color	PCU	25	--
95044	Dunham Pond	W1401	8/11/2005	15:33	0.5	s	Total Phosphorus	mg/L	##	a
95044	Dunham Pond	W1401	8/11/2005	15:33	0.5	s	True Color	PCU	20	--
95044	Dunham Pond	W1401	8/11/2005	15:33	0.5	s	Turbidity	NTU	2.1	--
95044	Dunham Pond	W1401	8/11/2005	15:34	0.5	s	Apparent color	PCU	20	--
95044	Dunham Pond	W1401	8/11/2005	15:34	0.5	s	Total Phosphorus	mg/L	##	a
95044	Dunham Pond	W1401	8/11/2005	15:34	0.5	s	True Color	PCU	20	--
95044	Dunham Pond	W1401	8/11/2005	15:34	0.5	s	Turbidity	NTU	2.8	--
95044	Dunham Pond	W1401	8/11/2005	15:40	4.5	nb	Total Phosphorus	mg/L	##	a
95044	Dunham Pond	W1401	8/11/2005	15:42	0-4.5	integrated	chlorophyll a	mg/m3	11.6	d
95044	Dunham Pond	W1401	9/1/2005	12:05	0.5	s	Apparent color	PCU	45	--
95044	Dunham Pond	W1401	9/1/2005	12:05	0.5	s	True Color	PCU	27	--
95044	Dunham Pond	W1401	9/1/2005	12:05	0.5	s	Turbidity	NTU	1.1	--
95044	Dunham Pond	W1401	9/1/2005	12:05	0.5	s	Total Phosphorus	mg/L	##	d,a
95044	Dunham Pond	W1401	9/1/2005	12:06	0.5	s	Apparent color	PCU	44	--
95044	Dunham Pond	W1401	9/1/2005	12:06	0.5	s	True Color	PCU	28	--
95044	Dunham Pond	W1401	9/1/2005	12:06	0.5	s	Turbidity	NTU	1.5	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
95044	Dunham Pond	W1401	9/1/2005	12:06	0.5	s	Total Phosphorus	mg/L	##	d,a
95044	Dunham Pond	W1401	9/1/2005	12:08	4.2	nb	Total Phosphorus	mg/L	##	d,a
95044	Dunham Pond	W1401	9/1/2005	11:07	0-3.3	integrated	chlorophyll a	mg/m3	9.7	d
95080	Leonards Pond	W1404	7/7/2005	13:35	0.5	s	Apparent color	PCU	130	--
95080	Leonards Pond	W1404	7/7/2005	13:35	0.5	s	True Color	PCU	110	--
95080	Leonards Pond	W1404	7/7/2005	13:35	0.5	s	Total Phosphorus	mg/L	0.13	d
95080	Leonards Pond	W1404	7/7/2005	13:35	0.5	s	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	7/7/2005	13:37	0.5	s	Apparent color	PCU	140	--
95080	Leonards Pond	W1404	7/7/2005	13:37	0.5	s	True Color	PCU	100	--
95080	Leonards Pond	W1404	7/7/2005	13:37	0.5	s	Total Phosphorus	mg/L	0.19	d
95080	Leonards Pond	W1404	7/7/2005	13:37	0.5	s	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	7/7/2005	13:40	1.5	nb	Apparent color	PCU	110	--
95080	Leonards Pond	W1404	7/7/2005	13:40	1.5	nb	True Color	PCU	90	--
95080	Leonards Pond	W1404	7/7/2005	13:40	1.5	nb	Total Phosphorus	mg/L	0.14	d
95080	Leonards Pond	W1404	7/7/2005	13:40	1.5	nb	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	7/7/2005	13:40	**	**	Total Phosphorus	mg/L	0.080	d
95080	Leonards Pond	W1404	7/7/2005	13:40	**	**	Total Phosphorus	mg/L	0.078	d
95080	Leonards Pond	W1404	7/7/2005	13:45	0-1.5	integrated	chlorophyll a	mg/m3	26.8	h
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Apparent color	PCU	100	--
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Total Phosphorus	mg/L	##	a
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	True Color	PCU	90	--
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Apparent color	PCU	110	--
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Total	mg/L	##	a

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
							Phosphorus			
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	True Color	PCU	85	--
95080	Leonards Pond	W1404	8/4/2005	13:58	0.5	s	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	8/4/2005	14:00	1.2	nb	Apparent color	PCU	130	--
95080	Leonards Pond	W1404	8/4/2005	14:00	1.2	nb	Total Phosphorus	mg/L	##	a
95080	Leonards Pond	W1404	8/4/2005	14:00	1.2	nb	True Color	PCU	80	--
95080	Leonards Pond	W1404	8/4/2005	14:00	1.2	nb	Turbidity	NTU	##	b
95080	Leonards Pond	W1404	8/4/2005	14:10	0-1.0	integrated	chlorophyll a	mg/m3	25.4	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Apparent color	PCU	230	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Total Phosphorus	mg/L	##	a
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	True Color	PCU	150	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Turbidity	NTU	4.4	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Apparent color	PCU	200	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Total Phosphorus	mg/L	##	a
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	True Color	PCU	150	--
95080	Leonards Pond	W1404	9/6/2005	11:50	0.5	s	Turbidity	NTU	4.2	--
95080	Leonards Pond	W1404	9/6/2005	11:52	1.1	nb	Total Phosphorus	mg/L	##	a
95080	Leonards Pond	W1404	9/6/2005	11:51	0-1.0	integrated	chlorophyll a	mg/m3	21.6	--
95100	Marys Pond	W1403	7/7/2005	10:50	0.5	s	Apparent color	PCU	<15	--
95100	Marys Pond	W1403	7/7/2005	10:50	0.5	s	True Color	PCU	**	--
95100	Marys Pond	W1403	7/7/2005	10:50	0.5	s	Total Phosphorus	mg/L	0.007	d
95100	Marys Pond	W1403	7/7/2005	10:50	0.5	s	Turbidity	NTU	##	b
95100	Marys Pond	W1403	7/7/2005	10:55	8.7	nb	Apparent color	PCU	<15	--
95100	Marys Pond	W1403	7/7/2005	10:55	8.7	nb	True Color	PCU	**	--
95100	Marys Pond	W1403	7/7/2005	10:55	8.7	nb	Total Phosphorus	mg/L	0.008	d

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
95100	Marys Pond	W1403	7/7/2005	10:55	8.7	nb	Turbidity	NTU	##	b
95100	Marys Pond	W1403	7/7/2005	10:45	0-8.0	integrated	chlorophyll a	mg/m3	1.2	h
95100	Marys Pond	W1403	7/7/2005	10:46	0-8.0	integrated	chlorophyll a	mg/m3	1.4	h
95100	Marys Pond	W1403	8/4/2005	11:36	0.5	s	Apparent color	PCU	<15	--
95100	Marys Pond	W1403	8/4/2005	11:36	0.5	s	Total Phosphorus	mg/L	##	a
95100	Marys Pond	W1403	8/4/2005	11:36	0.5	s	True Color	PCU	**	--
95100	Marys Pond	W1403	8/4/2005	11:36	0.5	s	Turbidity	NTU	##	b
95100	Marys Pond	W1403	8/4/2005	11:40	8.1	nb	Apparent color	PCU	35	--
95100	Marys Pond	W1403	8/4/2005	11:40	8.1	nb	Total Phosphorus	mg/L	##	a
95100	Marys Pond	W1403	8/4/2005	11:40	8.1	nb	True Color	PCU	15	--
95100	Marys Pond	W1403	8/4/2005	11:40	8.1	nb	Turbidity	NTU	##	b
95100	Marys Pond	W1403	8/4/2005	11:20	0-8.0	integrated	chlorophyll a	mg/m3	1.2	--
95100	Marys Pond	W1403	8/4/2005	11:27	0-8.0	integrated	chlorophyll a	mg/m3	1.3	--
95100	Marys Pond	W1403	9/6/2005	10:50	0.5	s	Apparent color	PCU	<15	--
95100	Marys Pond	W1403	9/6/2005	10:50	0.5	s	Total Phosphorus	mg/L	##	a
95100	Marys Pond	W1403	9/6/2005	10:50	0.5	s	True Color	PCU	**	--
95100	Marys Pond	W1403	9/6/2005	10:50	0.5	s	Turbidity	NTU	0.6	--
95100	Marys Pond	W1403	9/6/2005	10:52	7.8	nb	Total Phosphorus	mg/L	##	a
95100	Marys Pond	W1403	9/6/2005	10:47	0-8.0	integrated	chlorophyll a	mg/m3	1.8	--
95100	Marys Pond	W1403	9/6/2005	10:48	0-8.0	integrated	chlorophyll a	mg/m3	2.0	--
95125	Sampson Pond	W1402	7/6/2005	95:50	0.5	s	Apparent color	PCU	27	--
95125	Sampson Pond	W1402	7/6/2005	95:50	0.5	s	True Color	PCU	16	--
95125	Sampson Pond	W1402	7/6/2005	95:50	0.5	s	Total Phosphorus	mg/L	##	b
95125	Sampson Pond	W1402	7/6/2005	95:50	0.5	s	Turbidity	NTU	##	b
95125	Sampson Pond	W1402	7/6/2005	10:10	3.6	nb	Apparent color	PCU	45	h

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
95125	Sampson Pond	W1402	7/6/2005	10:10	3.6	nb	Total Phosphorus	mg/L	##	b
95125	Sampson Pond	W1402	7/6/2005	10:10	3.6	nb	True Color	PCU	25	h
95125	Sampson Pond	W1402	7/6/2005	10:10	3.6	nb	Turbidity	NTU	##	h,b
95125	Sampson Pond	W1402	7/6/2005	10:15	0-3.6	integrated	chlorophyll a	mg/m3	4.4	--
95125	Sampson Pond	W1402	7/6/2005	10:17	0-3.6	integrated	chlorophyll a	mg/m3	4.2	--
95125	Sampson Pond	W1402	8/15/2005	11:02	0.5	s	Apparent color	PCU	20	--
95125	Sampson Pond	W1402	8/15/2005	11:02	0.5	s	Total Phosphorus	mg/L	##	a
95125	Sampson Pond	W1402	8/15/2005	11:02	0.5	s	True Color	PCU	15	--
95125	Sampson Pond	W1402	8/15/2005	11:02	0.5	s	Turbidity	NTU	1.8	b
95125	Sampson Pond	W1402	8/15/2005	11:05	3.3	nb	Total Phosphorus	mg/L	##	a
95125	Sampson Pond	W1402	8/15/2005	10:58	0-3.3	integrated	chlorophyll a	mg/m3	3.3	--
95125	Sampson Pond	W1402	8/15/2005	11:00	0-3.3	integrated	chlorophyll a	mg/m3	3.3	--
95125	Sampson Pond	W1402	9/7/2005	10:24	0.5	s	Apparent color	PCU	**	--
95125	Sampson Pond	W1402	9/7/2005	10:24	0.5	s	True Color	PCU	**	--
95125	Sampson Pond	W1402	9/7/2005	10:24	0.5	s	Turbidity	NTU	**	--
95125	Sampson Pond	W1402	9/7/2005	10:24	0.5	s	Total Phosphorus	mg/L	##	d,a
95125	Sampson Pond	W1402	9/7/2005	10:27	3.5	nb	Total Phosphorus	mg/L	##	d,a
95125	Sampson Pond	W1402	9/7/2005	10:09	0-3.5	integrated	chlorophyll a	mg/m3	4.5	h
95125	Sampson Pond	W1402	9/7/2005	10:10	0-3.5	integrated	chlorophyll a	mg/m3	4.4	h
95137	Snipatuit Pond	W1405	7/14/2005	11:02	0.5	s	Apparent color	PCU	100	--
95137	Snipatuit Pond	W1405	7/14/2005	11:02	0.5	s	Total Phosphorus	mg/L	0.030	b,d
95137	Snipatuit Pond	W1405	7/14/2005	11:02	0.5	s	Turbidity	NTU	1.7	b
95137	Snipatuit Pond	W1405	7/14/2005	11:02	0.5	s	True Color	PCU	90	--
95137	Snipatuit Pond	W1405	7/14/2005	11:03	0.5	s	Apparent color	PCU	90	--
95137	Snipatuit Pond	W1405	7/14/2005	11:03	0.5	s	Total	mg/L	0.038	b,d

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
							Phosphorus			
95137	Snipatuit Pond	W1405	7/14/2005	11:03	0.5	s	Turbidity	NTU	2.0	b
95137	Snipatuit Pond	W1405	7/14/2005	11:03	0.5	s	True Color	PCU	90	--
95137	Snipatuit Pond	W1405	7/14/2005	11:15	1.0	nb	Apparent color	PCU	90	--
95137	Snipatuit Pond	W1405	7/14/2005	11:15	1.0	nb	True Color	PCU	80	--
95137	Snipatuit Pond	W1405	7/14/2005	11:15	1.0	nb	Total Phosphorus	mg/L	0.055	b
95137	Snipatuit Pond	W1405	7/14/2005	11:15	1.0	nb	Turbidity	NTU	1.7	b
95137	Snipatuit Pond	W1405	7/14/2005	11:06	0-1.0	integrated	chlorophyll a	mg/m3	3.7	--
95137	Snipatuit Pond	W1405	7/14/2005	11:08	0-1.0	integrated	chlorophyll a	mg/m3	4.1	--
95137	Snipatuit Pond	W1405	8/15/2005	13:25	0.5	s	Apparent color	PCU	90	d
95137	Snipatuit Pond	W1405	8/15/2005	13:25	0.5	s	Total Phosphorus	mg/L	##	a
95137	Snipatuit Pond	W1405	8/15/2005	13:25	0.5	s	True Color	PCU	90	--
95137	Snipatuit Pond	W1405	8/15/2005	13:25	0.5	s	Turbidity	NTU	4.0	b
95137	Snipatuit Pond	W1405	8/15/2005	13:26	0.5	s	Apparent color	PCU	120	d
95137	Snipatuit Pond	W1405	8/15/2005	13:26	0.5	s	Total Phosphorus	mg/L	##	a
95137	Snipatuit Pond	W1405	8/15/2005	13:26	0.5	s	True Color	PCU	90	--
95137	Snipatuit Pond	W1405	8/15/2005	13:26	0.5	s	Turbidity	NTU	4.2	b
95137	Snipatuit Pond	W1405	8/15/2005	13:30	1.0	nb	Total Phosphorus	mg/L	##	a
95137	Snipatuit Pond	W1405	8/15/2005	13:22	0-1.0	integrated	chlorophyll a	mg/m3	3.0	--
95137	Snipatuit Pond	W1405	9/7/2005	12:02	0.5	s	Apparent color	PCU	90	--
95137	Snipatuit Pond	W1405	9/7/2005	12:02	0.5	s	True Color	PCU	80	--
95137	Snipatuit Pond	W1405	9/7/2005	12:02	0.5	s	Turbidity	NTU	2.7	--
95137	Snipatuit Pond	W1405	9/7/2005	12:02	0.5	s	Total Phosphorus	mg/L	##	d,a
95137	Snipatuit Pond	W1405	9/7/2005	12:03	0.5	s	Apparent color	PCU	90	--
95137	Snipatuit Pond	W1405	9/7/2005	12:03	0.5	s	True Color	PCU	85	--

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
95137	Snipatuit Pond	W1405	9/7/2005	12:03	0.5	s	Turbidity	NTU	2.4	--
95137	Snipatuit Pond	W1405	9/7/2005	12:03	0.5	s	Total Phosphorus	mg/L	##	d,a
95137	Snipatuit Pond	W1405	9/7/2005	12:05	1.1	nb	Total Phosphorus	mg/L	##	d,a
95137	Snipatuit Pond	W1405	9/7/2005	12:00	0-1.0	integrated	chlorophyll a	mg/m3	3.3	h
95158	Wenham Pond	W1400	7/5/2005	10:30	0.5	s	Apparent color	PCU	60	--
95158	Wenham Pond	W1400	7/5/2005	10:30	0.5	s	True Color	PCU	50	--
95158	Wenham Pond	W1400	7/5/2005	10:30	0.5	s	Turbidity	NTU	3.2	--
95158	Wenham Pond	W1400	7/5/2005	10:30	0.5	s	Total Phosphorus	mg/L	##	b
95158	Wenham Pond	W1400	7/5/2005	10:35	2.2	nb	Apparent color	PCU	65	--
95158	Wenham Pond	W1400	7/5/2005	10:35	2.2	nb	True Color	PCU	50	--
95158	Wenham Pond	W1400	7/5/2005	10:35	2.2	nb	Turbidity	NTU	2.8	--
95158	Wenham Pond	W1400	7/5/2005	10:35	2.2	nb	Total Phosphorus	mg/L	##	b
95158	Wenham Pond	W1400	7/5/2005	10:50	0-2.5	integrated	chlorophyll a	mg/m3	21.2	--
95158	Wenham Pond	W1400	7/5/2005	10:50	0-2.5	integrated	chlorophyll a	mg/m3	19.2	--
95158	Wenham Pond	W1400	8/11/2005	11:08	0.5	s	Apparent color	PCU	50	--
95158	Wenham Pond	W1400	8/11/2005	11:08	0.5	s	Total Phosphorus	mg/L	##	a
95158	Wenham Pond	W1400	8/11/2005	11:08	0.5	s	True Color	PCU	40	--
95158	Wenham Pond	W1400	8/11/2005	11:08	0.5	s	Turbidity	NTU	2.6	--
95158	Wenham Pond	W1400	8/11/2005	11:20	1.8	nb	Total Phosphorus	mg/L	##	a
95158	Wenham Pond	W1400	8/11/2005	11:15	0-1.8	integrated	chlorophyll a	mg/m3	##	d
95158	Wenham Pond	W1400	8/11/2005	11:17	0-1.8	integrated	chlorophyll a	mg/m3	##	d
95158	Wenham Pond	W1400	9/1/2005	09:50	0.5	s	Apparent color	PCU	70	--
95158	Wenham Pond	W1400	9/1/2005	09:50	0.5	s	True Color	PCU	50	--
95158	Wenham Pond	W1400	9/1/2005	09:50	0.5	s	Turbidity	NTU	3.5	--
95158	Wenham Pond	W1400	9/1/2005	09:50	0.5	s	Total	mg/L	##	d,a

PALIS	Water Body	Unique ID	Date	Time	Sample Depth (meters)	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
							Phosphorus			
95158	Wenham Pond	W1400	9/1/2005	09:52	1.6	nb	Total Phosphorus	mg/L	##	d,a
95158	Wenham Pond	W1400	9/1/2005	10:05	0-1.6	integrated	chlorophyll a	mg/m3	##	d
95158	Wenham Pond	W1400	9/1/2005	10:06	0-1.6	integrated	chlorophyll a	mg/m3	##	d

Relative depth codes are follows: s=surface; md=mid-depth and nb=near bottom

Table 5. Multiprobe Profiles in Lakes (Nutrient Criteria Lakes and Baseline Lakes below).

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
21043	Goose Pond	W1289	8/24/05	15:29	0.6	23.5	--	7.9	--	59	i	38	i	7.9	--	94	--
21043	Goose Pond	W1289	8/24/05	15:38	3.0	23.3	--	7.9	--	59	i	38	i	7.8	--	93	--
21043	Goose Pond	W1289	8/24/05	15:47	5.0	23.3	--	7.8	--	59	i	38	i	7.7	--	91	--
21043	Goose Pond	W1289	8/24/05	15:56	6.1	18.9	--	7.0	--	58	i	37	i	6.5	--	71	--
21043	Goose Pond	W1289	8/24/05	16:04	5.7	20.9	--	7.0	--	59	i	38	i	6.7	--	76	--
21043	Goose Pond	W1289	8/24/05	16:12	6.7	16.3	--	6.8	--	58	i	37	i	6.6	--	68	--
21043	Goose Pond	W1289	8/24/05	16:19	7.5	13.9	--	6.7	--	58	i	37	i	6.5	--	64	--
21043	Goose Pond	W1289	8/24/05	16:27	8.0	12.2	--	6.6	--	59	i	38	i	5.1	--	48	--
21043	Goose Pond	W1289	8/24/05	16:34	8.5	11.0	--	6.5	--	59	i	38	i	3.5	--	32	--
21043	Goose Pond	W1289	8/24/05	16:42	7.7	13.0	--	6.7	--	58	i	37	i	5.9	--	56	--
21043	Goose Pond	W1289	8/24/05	16:50	11.0	7.7	--	6.4	--	74	i	47	i	<0.2	--	<2	--
21078	Onota Lake	W1290	8/23/05	12:26	0.5	24.2	--	8.0	i	203	--	130	--	7.2	i	87	i
21078	Onota Lake	W1290	8/23/05	12:37	6.0	22.5	--	7.9	i	198	--	127	--	7.1	u,i	83	u,i
21078	Onota Lake	W1290	8/23/05	12:46	6.3	20.1	--	8.0	i	190	--	121	--	8.7	u,i	97	u,i
21078	Onota Lake	W1290	8/23/05	12:52	7.9	13.5	--	7.5	i	188	--	120	--	7.0	i	68	i
21078	Onota Lake	W1290	8/23/05	13:00	8.2	12.7	--	7.4	i	188	--	120	--	6.6	i	63	i
21078	Onota Lake	W1290	8/23/05	13:06	9.2	10.9	--	7.2	i	190	--	122	--	4.3	i	39	i
21078	Onota Lake	W1290	8/23/05	13:13	10.7	8.7	--	7.0	i	195	--	125	--	0.7	i	6	i
21078	Onota Lake	W1290	8/23/05	13:23	17.7	5.9	--	7.0	i	224	--	144	--	<0.2	i	<2	i
21105	Stockbridge Bowl	W1291	8/24/05	11:26	0.6	23.8	--	8.4	--	335	i	214	i	8.3	--	100	--
21105	Stockbridge Bowl	W1291	8/24/05	11:35	1.5	23.8	--	8.5	--	335	i	215	i	8.3	--	99	--
21105	Stockbridge Bowl	W1291	8/24/05	11:43	2.5	23.8	--	8.6	--	336	i	215	i	8.3	--	100	--
21105	Stockbridge Bowl	W1291	8/24/05	11:53	5.0	23.7	--	8.5	--	336	i	216	i	8.3	--	98	--
21105	Stockbridge Bowl	W1291	8/24/05	12:05	5.5	22.2	--	8.4	--	354	i	227	i	9.6	u	112	u

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
21105	Stockbridge Bowl	W1291	8/24/05	12:13	6.0	19.5	u	8.3	--	360	i	231	i	9.9	--	110	--
21105	Stockbridge Bowl	W1291	8/24/05	12:22	6.5	15.7	--	8.1	--	361	i	231	i	9.7	--	100	--
21105	Stockbridge Bowl	W1291	8/24/05	12:29	7.5	13.1	--	8.1	--	363	i	232	i	9.8	--	94	--
21105	Stockbridge Bowl	W1291	8/24/05	12:37	8.5	10.2	--	7.7	--	367	i	235	i	7.6	u	69	u
21105	Stockbridge Bowl	W1291	8/24/05	12:44	9.0	9.5	--	7.3	--	370	i	237	i	<0.2	--	<2	--
21105	Stockbridge Bowl	W1291	8/24/05	12:52	8.7	9.8	--	7.4	--	369	i	236	i	3.2	u	29	u
32054	Norwich Pond	W1292	9/6/05	10:49	0.6	23.2	--	7.1	--	36	--	23	--	7.5	i	88	i
32054	Norwich Pond	W1292	9/6/05	11:00	5.1	22.9	--	7.1	--	36	--	23	--	7.0	i	82	i
32054	Norwich Pond	W1292	9/6/05	11:06	6.0	20.2	--	6.3	--	37	--	23	--	3.7	i	41	i
32054	Norwich Pond	W1292	9/6/05	11:14	6.4	18.3	--	6.1	--	36	--	23	--	1.8	i	19	i
32054	Norwich Pond	W1292	9/6/05	11:20	7.5	14.0	u	6.0	--	38	--	24	--	0.4	i	4	i
32054	Norwich Pond	W1292	9/6/05	11:26	9.9	10.1	--	6.3	--	59	--	38	--	<0.2	i	<2	i
32054	Norwich Pond	W1292	9/6/05	11:34	12.0	9.2	--	6.4	--	59	--	38	--	<0.2	i	<2	i
32054	Norwich Pond	W1292	9/6/05	11:40	13.7	8.9	--	6.4	--	63	--	40	--	<0.2	i	<2	i
32076	Windsor Pond	W1293	8/23/05	15:43	0.6	23.2	--	7.6	i	49	--	31	--	7.5	i	90	i
32076	Windsor Pond	W1293	8/23/05	15:49	2.8	22.8	--	7.3	i	48	--	31	--	6.8	i	81	i
32076	Windsor Pond	W1293	8/23/05	15:55	3.9	20.2	--	6.2	i	43	--	28	--	1.2	i	14	i
32076	Windsor Pond	W1293	8/23/05	16:00	6.0	9.7	u	5.9	i	38	--	24	--	2.7	i	24	i
32076	Windsor Pond	W1293	8/23/05	16:05	9.2	5.8	--	5.8	i	42	--	27	--	0.6	i	5	i
32076	Windsor Pond	W1293	8/23/05	16:10	10.9	5.4	--	5.9	i	44	--	28	--	<0.2	i	<2	i
32076	Windsor Pond	W1293	8/23/05	16:14	14.6	5.3	--	6.0	i	48	--	31	--	<0.2	i	<2	i
35053	Packard Pond	W1294	8/17/05	10:34	0.6	25.8	--	5.9	i	41	--	26	--	6.9	--	86	--
35053	Packard Pond	W1294	8/17/05	10:44	2.1	24.9	--	5.4	i	41	--	26	--	2.9	u	36	u
35053	Packard Pond	W1294	8/17/05	10:55	2.4	22.5	--	5.3	i	42	--	27	--	<0.2	--	<2	--
35053	Packard Pond	W1294	8/17/05	11:05	2.8	20.0	--	5.2	i	42	--	27	--	<0.2	--	<2	--
35053	Packard Pond	W1294	8/17/05	11:13	4.6	10.8	--	5.0	i	42	--	27	--	2.1	--	19	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
35053	Packard Pond	W1294	8/17/05	11:20	6.0	7.3	--	5.0	i	43	--	27	--	1.8	--	15	--
35053	Packard Pond	W1294	8/17/05	11:29	9.0	5.5	--	5.0	i	43	--	28	--	1.7	--	14	--
35053	Packard Pond	W1294	8/17/05	11:34	12.0	5.3	--	5.9	i	74	--	48	--	<0.2	--	<2	--
36084	Lake Lorraine	W1083	9/6/05	14:22	0.5	25.9	--	7.0	--	147	--	94	--	7.2	i	88	i
36084	Lake Lorraine	W1083	9/6/05	14:32	4.0	24.8	--	7.0	--	147	--	94	--	6.6	i, u	79	i, u
36084	Lake Lorraine	W1083	9/6/05	14:38	5.7	22.6	u	6.4	--	154	--	99	--	6.1	i, u	71	i, u
36084	Lake Lorraine	W1083	9/6/05	14:44	6.1	20.1	--	6.5	--	160	--	103	--	7.5	i, u	82	i, u
36084	Lake Lorraine	W1083	9/6/05	14:51	6.8	16.9	--	6.9	--	177	--	113	--	11.1	i, u	114	i, u
36084	Lake Lorraine	W1083	9/6/05	14:58	7.4	14.5	--	6.3	--	201	--	129	--	7.4	i	73	i
36084	Lake Lorraine	W1083	9/6/05	15:05	8.0	13.1	--	6.0	--	219	--	140	--	1.7	i	16	i
36084	Lake Lorraine	W1083	9/6/05	15:13	9.6	10.4	--	5.9	--	252	--	161	--	0.5	i	4	i
41001	Alum Pond	W1221	9/7/05	13:55	0.4	25.1	--	7.4	--	92	--	59	--	8.2	--	100	--
41001	Alum Pond	W1221	9/7/05	14:04	1.5	24.2	--	7.4	--	91	--	58	--	8.4	--	100	--
41001	Alum Pond	W1221	9/7/05	14:09	3.4	24.0	--	7.5	--	91	--	59	--	8.3	--	99	--
41001	Alum Pond	W1221	9/7/05	14:15	6.0	23.7	--	7.3	--	91	--	58	--	8.1	--	96	--
41001	Alum Pond	W1221	9/7/05	14:20	6.9	22.0	u	7.2	--	90	--	58	--	9.0	--	104	--
41001	Alum Pond	W1221	9/7/05	14:28	7.6	18.7	--	6.8	--	90	--	58	--	8.1	--	87	--
41001	Alum Pond	W1221	9/7/05	14:33	8.0	17.1	--	6.5	--	90	--	58	--	6.2	--	64	--
41001	Alum Pond	W1221	9/7/05	14:38	8.5	15.9	--	6.3	--	91	--	58	--	3.7	--	37	--
41001	Alum Pond	W1221	9/7/05	14:43	9.0	14.8	--	6.3	--	92	--	59	--	2.2	--	21	--
41001	Alum Pond	W1221	9/7/05	14:47	9.5	13.7	--	6.3	--	94	--	60	--	1.1	--	11	--
41001	Alum Pond	W1221	9/7/05	14:53	10.0	12.4	--	6.1	--	102	--	65	--	<0.2	--	<2	--
41001	Alum Pond	W1221	9/7/05	14:59	10.5	11.4	--	6.1	--	109	--	70	--	<0.2	--	<2	--
42064	Webster Lake	W1295	9/7/05	10:14	0.4	24.1	--	6.9	--	172	--	110	--	7.9	--	94	--
42064	Webster Lake	W1295	9/7/05	10:20	1.5	24.0	--	6.9	--	172	--	110	--	7.8	--	93	--
42064	Webster Lake	W1295	9/7/05	10:28	4.5	23.9	--	6.9	--	172	--	110	--	7.6	--	91	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
42064	Webster Lake	W1295	9/7/05	10:33	5.5	23.6	--	6.7	--	172	--	110	--	7.0	--	83	--
42064	Webster Lake	W1295	9/7/05	10:41	6.1	23.5	--	6.7	--	172	--	110	--	6.8	--	80	--
42064	Webster Lake	W1295	9/7/05	10:50	6.5	22.0	--	6.2	--	166	--	107	--	2.6	--	29	--
42064	Webster Lake	W1295	9/7/05	10:57	7.0	19.7	u	6.1	--	165	--	105	--	0.3	--	3	--
42064	Webster Lake	W1295	9/7/05	11:02	8.0	16.7	--	6.2	--	167	--	107	--	<0.2	--	<2	--
42064	Webster Lake	W1295	9/7/05	11:07	10.0	14.4	--	6.2	--	169	--	108	--	<0.2	--	<2	--
42064	Webster Lake	W1295	9/7/05	11:12	12.5	13.2	--	6.6	--	189	--	121	--	<0.2	--	<2	--
51125	Lake Quinsigamond	W1085	8/16/05	11:52	0.6	26.3	--	##	i	512	--	328	--	7.3	--	92	--
51125	Lake Quinsigamond	W1085	8/16/05	12:03	2.5	25.9	--	##	i	513	--	329	--	7.4	--	92	--
51125	Lake Quinsigamond	W1085	8/16/05	12:13	4.5	23.4	--	##	i	507	--	324	--	6.8	--	81	--
51125	Lake Quinsigamond	W1085	8/16/05	12:20	5.0	20.2	--	##	i	524	--	335	--	6.1	--	68	--
51125	Lake Quinsigamond	W1085	8/16/05	12:28	5.5	17.4	--	##	i	547	--	350	--	6.0	--	63	--
51125	Lake Quinsigamond	W1085	8/16/05	12:36	7.5	10.8	--	##	i	623	--	399	--	2.5	--	23	--
51125	Lake Quinsigamond	W1085	8/16/05	12:45	9.5	7.5	--	##	i	713	--	456	--	2.0	--	17	--
51125	Lake Quinsigamond	W1085	8/16/05	12:55	14.0	5.4	--	##	i	762	--	488	--	1.0	--	8	--
51125	Lake Quinsigamond	W1085	8/16/05	13:06	19.0	5.2	--	##	i	766	--	490	--	0.6	--	5	--
51125	Lake Quinsigamond	W1085	8/16/05	13:12	23.9	4.9	--	##	i	781	--	500	--	<0.2	--	<2	--
71019	Horn Pond	W1087	8/23/05	9:56	0.5	25.3	--	8.0	i	684	--	438	--	7.3	i, u	90	i, u
71019	Horn Pond	W1087	8/23/05	10:07	2.5	25.2	--	8.0	i	684	--	438	--	7.1	i, u	87	i, u
71019	Horn Pond	W1087	8/23/05	10:15	3.5	25.1	--	8.0	i	683	--	437	--	7.0	i, u	86	i, u
71019	Horn Pond	W1087	8/23/05	10:22	4.5	21.0	u	8.8	i	700	--	448	--	12.4	i, u	141	i, u
71019	Horn Pond	W1087	8/23/05	10:30	5.0	16.5	--	7.0	i	720	--	461	--	5.3	i, u	55	i, u
71019	Horn Pond	W1087	8/23/05	10:37	5.5	14.4	--	6.7	i	733	--	469	--	1.3	i	13	i

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
71019	Horn Pond	W1087	8/23/05	10:43	6.5	10.1	--	6.5	i	868	--	555	--	<0.2	i	<2	i
71019	Horn Pond	W1087	8/23/05	10:49	9.0	6.2	--	6.4	i	1270	--	812	--	<0.2	i	<2	i
71019	Horn Pond	W1087	8/23/05	10:57	12.1	4.7	--	6.5	i	1860	--	1190	--	<0.2	i	<2	i
71043	Upper Mystic Lake	W1296	8/10/05	10:03	0.5	26.3	--	8.8	--	702	--	450	--	9.4	--	118	--
71043	Upper Mystic Lake	W1296	8/10/05	10:11	1.5	26.3	--	8.8	--	702	--	450	--	9.4	--	119	--
71043	Upper Mystic Lake	W1296	8/10/05	10:19	2.5	26.3	--	8.8	--	702	--	450	--	9.3	--	118	--
71043	Upper Mystic Lake	W1296	8/10/05	10:28	3.5	22.3	u	7.5	--	686	--	439	--	9.0	u	105	u
71043	Upper Mystic Lake	W1296	8/10/05	10:35	4.0	17.9	u	7.1	--	736	--	471	--	7.9	--	85	--
71043	Upper Mystic Lake	W1296	8/10/05	10:43	4.5	14.4	--	6.8	--	773	--	495	--	5.0	--	50	--
71043	Upper Mystic Lake	W1296	8/10/05	10:51	5.0	12.9	u	6.7	--	781	--	500	--	4.5	u	43	u
71043	Upper Mystic Lake	W1296	8/10/05	10:58	5.5	10.9	--	6.6	--	807	--	516	--	2.3	--	21	--
71043	Upper Mystic Lake	W1296	8/10/05	11:08	7.5	6.5	--	6.3	--	1230	--	787	--	<0.2	--	<2	--
71043	Upper Mystic Lake	W1296	8/10/05	11:14	12.0	3.3	--	6.4	--	1420	--	909	--	<0.2	--	<2	--
71043	Upper Mystic Lake	W1296	8/10/05	11:20	18.0	3.7	--	6.6	--	1580	--	1010	--	<0.2	--	<2	--
71043	Upper Mystic Lake	W1296	8/10/05	11:26	23.0	3.8	--	6.9	--	1610	--	1030	--	<0.2	--	<2	--
72039	Farm Pond	W1297	9/13/05	9:54	0.6	23.9	--	6.2	--	40	--	25	--	7.4	i	89	i
72039	Farm Pond	W1297	9/13/05	10:03	2.5	23.8	--	6.2	--	39	--	25	--	##	u,i	##	u,i
72039	Farm Pond	W1297	9/13/05	10:10	3.5	23.8	--	6.2	--	39	--	25	--	6.4	u,i	76	u,i
72039	Farm Pond	W1297	9/13/05	10:16	4.6	23.5	--	6.1	--	39	--	25	--	6.7	i	79	i
72039	Farm Pond	W1297	9/13/05	10:23	6.5	22.6	--	5.9	--	39	--	25	--	6.5	i	76	i
72039	Farm Pond	W1297	9/13/05	10:29	7.5	17.6	--	5.8	--	36	--	23	--	7.3	u,i	77	u,i
72039	Farm Pond	W1297	9/13/05	10:34	8.5	14.8	--	5.6	--	37	--	24	--	6.0	i	60	i

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
72039	Farm Pond	W1297	9/13/05	10:41	9.6	12.1	--	5.5	--	37	--	24	--	6.6	i	62	i
72039	Farm Pond	W1297	9/13/05	10:49	11.5	9.1	--	5.2	--	37	--	24	--	5.2	i	45	i
72039	Farm Pond	W1297	9/13/05	10:54	13.5	8.1	--	5.3	--	39	--	25	--	1.2	i	10	i
72039	Farm Pond	W1297	9/13/05	11:00	16.7	7.7	--	6.0	--	55	--	35	--	<0.2	i	<2	i
72052	Jamaica Pond	W0973	9/13/05	13:28	0.6	23.9	--	8.6	--	458	--	293	--	8.9	i	107	i
72052	Jamaica Pond	W0973	9/13/05	13:35	2.6	23.5	--	8.8	--	459	--	294	--	9.1	u,i	109	u,i
72052	Jamaica Pond	W0973	9/13/05	13:43	3.5	23.2	--	8.8	--	459	--	294	--	9.2	i	109	i
72052	Jamaica Pond	W0973	9/13/05	13:49	4.6	22.9	--	8.7	--	458	--	293	--	9.1	i	107	i
72052	Jamaica Pond	W0973	9/13/05	13:55	5.5	18.7	u	9.9	c	468	--	299	--	17.7	u,i	193	u,i
72052	Jamaica Pond	W0973	9/13/05	13:59	6.5	12.7	--	9.6	c	473	--	303	--	17.6	u,i	168	u,i
72052	Jamaica Pond	W0973	9/13/05	14:07	7.5	8.9	--	7.2	--	495	--	317	--	9.3	u,i	81	u,i
72052	Jamaica Pond	W0973	9/13/05	14:13	8.5	7.1	--	6.6	--	517	--	331	--	3.1	i	26	i
72052	Jamaica Pond	W0973	9/13/05	14:18	9.5	6.0	--	6.4	--	535	--	342	--	0.3	i	2	i
72052	Jamaica Pond	W0973	9/13/05	14:23	13.0	4.2	--	6.1	--	708	--	453	--	<0.2	i	<2	i
81046	Fort Pond	W0603	8/2/05	14:15	0.5	26.5	--	7.2	--	404	--	258	--	7.4	--	94	--
81046	Fort Pond	W0603	8/2/05	14:22	1.5	25.7	--	7.2	--	404	--	259	--	7.4	--	93	--
81046	Fort Pond	W0603	8/2/05	14:27	2.5	25.2	--	7.1	--	403	--	258	--	7.3	--	90	--
81046	Fort Pond	W0603	8/2/05	14:32	3.6	19.7	--	6.6	--	384	--	246	--	7.5	--	84	--
81046	Fort Pond	W0603	8/2/05	14:39	4.0	14.4	u	6.4	--	385	--	247	--	5.6	--	56	--
81046	Fort Pond	W0603	8/2/05	14:49	4.5	12.2	--	6.3	--	388	--	248	--	4.6	--	44	--
81046	Fort Pond	W0603	8/2/05	14:53	5.0	11.0	--	6.3	--	392	--	251	--	3.9	--	36	--
81046	Fort Pond	W0603	8/2/05	14:59	5.6	9.4	--	6.3	--	400	--	256	--	3.2	--	29	--
81046	Fort Pond	W0603	8/2/05	15:06	6.6	7.4	--	6.2	--	418	--	268	--	1.8	u	15	u
81046	Fort Pond	W0603	8/2/05	15:11	7.6	6.1	--	6.2	--	460	--	294	--	<0.2	--	<2	--
81046	Fort Pond	W0603	8/2/05	15:15	10.1	5.2	--	6.4	--	630	--	404	--	<0.2	--	<2	--
81046	Fort Pond	W0603	8/2/05	15:23	13.4	5.0	--	6.5	--	797	--	510	--	<0.2	--	<2	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
81085	Mirror Lake	W1298	8/3/05	11:12	0.4	26.1	--	7.9	--	171	--	111	--	8.2	--	101	--
81085	Mirror Lake	W1298	8/3/05	11:31	2.5	25.7	--	7.8	--	171	--	111	--	7.9	--	97	--
81085	Mirror Lake	W1298	8/3/05	11:45	3.5	24.0	--	7.7	--	172	--	112	--	9.5	u	113	u
81085	Mirror Lake	W1298	8/3/05	11:59	4.0	20.5	--	7.9	--	173	--	112	--	11.9	--	132	--
81085	Mirror Lake	W1298	8/3/05	12:07	5.1	15.5	--	8.0	--	176	--	115	--	13.8	--	138	--
81085	Mirror Lake	W1298	8/3/05	12:15	6.9	10.1	--	7.8	--	181	--	118	--	13.3	--	118	--
81085	Mirror Lake	W1298	8/3/05	12:23	8.9	7.0	--	7.2	--	186	--	121	--	6.9	--	57	--
81085	Mirror Lake	W1298	8/3/05	12:31	10.8	6.1	--	7.0	--	193	--	126	--	1.4	--	11	--
81085	Mirror Lake	W1298	8/3/05	12:39	14.8	5.2	--	6.9	--	228	--	148	--	<0.2	--	<2	--
81132	Spectacle Pond	W1299	8/3/05	14:47	0.5	27.3	--	7.4	--	326	--	212	--	8.4	--	106	--
81132	Spectacle Pond	W1299	8/3/05	14:53	3.0	26.0	--	7.5	--	324	--	210	--	8.7	--	107	--
81132	Spectacle Pond	W1299	8/3/05	15:00	5.1	20.2	u	9.0	--	307	--	200	--	12.9	--	142	--
81132	Spectacle Pond	W1299	8/3/05	15:07	6.9	13.8	u	7.6	u	315	--	205	--	14.7	--	142	--
81132	Spectacle Pond	W1299	8/3/05	15:14	8.5	10.9	--	6.4	--	335	--	218	--	11.0	--	99	--
81132	Spectacle Pond	W1299	8/3/05	15:25	10.1	8.9	--	6.1	--	368	--	239	--	5.3	--	46	--
81132	Spectacle Pond	W1299	8/3/05	15:32	12.0	8.0	--	6.0	--	394	--	256	--	0.5	--	4	--
81132	Spectacle Pond	W1299	8/3/05	15:40	14.8	6.8	--	6.7	--	470	--	306	--	<0.2	--	<2	--
82061	Hopkinton Res.	W1300	8/23/05	14:11	0.5	26.2	--	7.0	i	298	--	191	--	6.7	i	85	i
82061	Hopkinton Res.	W1300	8/23/05	14:18	2.5	26.0	--	7.0	i	298	--	191	--	6.7	i	84	i
82061	Hopkinton Res.	W1300	8/23/05	14:27	3.5	20.8	u	5.8	i	282	--	181	--	1.7	i	19	i
82061	Hopkinton Res.	W1300	8/23/05	14:35	4.5	14.7	u	5.7	i	273	--	175	--	3.4	i	34	i
82061	Hopkinton Res.	W1300	8/23/05	14:43	5.5	12.6	--	5.8	i	270	--	173	--	4.7	i	45	i
82061	Hopkinton Res.	W1300	8/23/05	14:50	7.5	10.9	--	5.7	i	269	--	172	--	4.1	i	38	i
82061	Hopkinton Res.	W1300	8/23/05	14:58	8.5	10.4	--	5.7	i	268	--	172	--	4.2	i, u	38	i, u
82061	Hopkinton Res.	W1300	8/23/05	15:07	10.5	9.4	--	5.6	i	269	--	172	--	2.6	i	23	i
82061	Hopkinton Res.	W1300	8/23/05	15:15	12.0	9.1	--	5.6	i	269	--	172	--	2.6	i	23	i

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
82061	Hopkinton Res.	W1300	8/23/05	15:22	13.1	8.8	--	5.6	i	270	--	173	--	2.0	i	17	i
82112	Waushacum Pond	W1301	8/17/05	15:00	0.5	28.0	--	9.2	i,c	382	--	245	--	9.7	--	126	--
82112	Waushacum Pond	W1301	8/17/05	15:12	2.7	25.7	--	8.8	i	380	--	243	--	8.5	u	106	u
82112	Waushacum Pond	W1301	8/17/05	15:21	3.5	22.5	u	7.2	i	364	--	233	--	4.6	u	54	u
82112	Waushacum Pond	W1301	8/17/05	15:29	3.9	20.3	u	6.8	i	369	--	236	--	2.0	u	23	u
82112	Waushacum Pond	W1301	8/17/05	15:39	4.2	18.5	--	6.6	i	364	--	233	--	1.2	--	13	--
82112	Waushacum Pond	W1301	8/17/05	15:49	6.1	10.4	--	6.4	i	375	--	240	--	<0.2	--	<2	--
82112	Waushacum Pond	W1301	8/17/05	15:55	13.3	4.7	--	6.6	i	568	--	364	--	<0.2	--	<2	--
82118	White Pond	W1302	9/13/05	10:42	0.5	24.1	--	6.9	--	62	--	40	--	8.2	i	100	i
82118	White Pond	W1302	9/13/05	10:52	5.6	23.6	--	7.0	--	62	--	40	--	8.7	i	104	i
82118	White Pond	W1302	9/13/05	10:59	6.4	20.7	--	7.4	--	61	--	39	--	12.5	i	142	i
82118	White Pond	W1302	9/13/05	11:06	6.8	18.7	--	7.6	--	61	--	39	--	13.0	i	141	i
82118	White Pond	W1302	9/13/05	11:12	7.9	14.4	--	7.3	--	59	--	38	--	12.9	i	128	i
82118	White Pond	W1302	9/13/05	11:18	8.7	12.4	--	6.7	--	59	--	38	--	11.8	i	112	i
82118	White Pond	W1302	9/13/05	11:24	9.4	10.7	--	5.9	--	60	--	38	--	6.9	i	63	i
82118	White Pond	W1302	9/13/05	11:30	10.1	9.8	--	5.6	--	60	--	39	--	2.7	u,i	24	u,i
82118	White Pond	W1302	9/13/05	11:35	13.8	6.4	--	5.5	--	65	--	41	--	<0.2	i	<2	i
82118	White Pond	W1302	9/13/05	11:41	18.2	5.7	--	5.8	--	82	--	53	--	<0.2	i	<2	i
82125	Lake Cochituate	W1090	9/13/05	13:21	0.6	24.7	--	8.3	--	457	--	292	--	7.9	i	96	i
82125	Lake Cochituate	W1090	9/13/05	13:33	4.8	23.1	--	8.1	--	457	--	293	--	7.7	i	91	i
82125	Lake Cochituate	W1090	9/13/05	13:39	5.3	22.9	--	7.8	--	457	--	292	--	7.3	i	87	i
82125	Lake Cochituate	W1090	9/13/05	13:45	5.6	20.3	u	6.9	--	461	--	295	--	5.4	i	61	i
82125	Lake Cochituate	W1090	9/13/05	13:51	6.5	13.9	--	6.5	--	471	--	301	--	2.1	i	21	i
82125	Lake Cochituate	W1090	9/13/05	13:57	7.5	9.7	--	6.3	--	484	--	310	--	<0.2	i	<2	i

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
82125	Lake Cochituate	W1090	9/13/05	14:03	10.2	6.0	--	6.2	--	489	--	313	--	<0.2	i	<2	i
82125	Lake Cochituate	W1090	9/13/05	14:09	14.3	5.1	--	6.8	--	776	--	497	--	<0.2	i	<2	i
84036	Baddacook Pond	W1303	8/2/05	10:06	0.5	25.4	--	7.1	--	181	--	116	--	6.8	--	84	--
84036	Baddacook Pond	W1303	8/2/05	10:19	1.5	25.0	--	7.1	--	181	--	116	--	6.8	--	83	--
84036	Baddacook Pond	W1303	8/2/05	10:35	2.0	24.5	--	6.8	--	183	--	117	--	5.5	--	67	--
84036	Baddacook Pond	W1303	8/2/05	10:45	2.5	23.3	--	6.6	--	181	--	116	--	4.1	--	49	--
84036	Baddacook Pond	W1303	8/2/05	10:57	3.0	19.6	--	6.7	--	176	--	113	--	5.7	--	63	--
84036	Baddacook Pond	W1303	8/2/05	11:07	3.5	15.8	--	6.6	--	176	--	112	--	5.0	--	51	--
84036	Baddacook Pond	W1303	8/2/05	11:11	4.0	14.0	--	6.5	--	177	--	113	--	3.5	u	34	u
84036	Baddacook Pond	W1303	8/2/05	11:17	4.5	12.0	--	6.4	--	179	--	114	--	1.6	--	15	--
84036	Baddacook Pond	W1303	8/2/05	11:21	5.0	10.5	--	6.4	--	185	--	118	--	<0.2	--	<2	--
84036	Baddacook Pond	W1303	8/2/05	11:26	6.1	8.3	--	6.3	--	190	--	121	--	<0.2	--	<2	--
84036	Baddacook Pond	W1303	8/2/05	11:30	8.0	5.8	--	6.3	--	196	--	126	--	<0.2	--	<2	--
84036	Baddacook Pond	W1303	8/2/05	11:35	13.9	4.8	--	6.7	--	234	--	150	--	<0.2	--	<2	--
91001	Baldpate Pond	W0608	8/10/05	14:28	0.5	27.9	--	7.6	--	241	--	157	--	8.1	--	103	--
91001	Baldpate Pond	W0608	8/10/05	14:38	2.9	25.8	--	7.5	--	242	--	157	--	9.4	u	116	u
91001	Baldpate Pond	W0608	8/10/05	14:45	3.2	24.8	--	7.3	--	239	--	155	--	10.3	--	124	--
91001	Baldpate Pond	W0608	8/10/05	14:51	3.6	20.6	--	7.5	--	225	--	147	--	13.1	--	146	--
91001	Baldpate Pond	W0608	8/10/05	14:57	4.4	16.1	--	7.2	--	220	--	143	--	12.6	--	128	--
91001	Baldpate Pond	W0608	8/10/05	15:04	5.7	11.5	--	6.6	--	222	--	144	--	5.4	--	49	--
91001	Baldpate Pond	W0608	8/10/05	15:11	9.0	6.3	--	6.4	--	282	--	184	--	<0.2	--	<2	--
91001	Baldpate Pond	W0608	8/10/05	15:17	12.0	5.3	--	6.8	--	329	--	214	--	<0.2	--	<2	--
93071	Sluice Pond	W1304	8/10/05	11:12	0.5	26.6	--	8.1	--	907	--	589	--	9.0	--	113	--
93071	Sluice Pond	W1304	8/10/05	11:19	2.0	26.3	--	8.0	--	906	--	589	--	8.9	--	111	--
93071	Sluice Pond	W1304	8/10/05	11:32	3.1	25.6	--	7.1	--	902	--	587	--	8.4	--	103	--
93071	Sluice Pond	W1304	8/10/05	11:43	3.7	21.7	u	6.8	--	910	--	592	--	8.0	u	92	u

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
93071	Sluice Pond	W1304	8/10/05	11:51	4.2	18.6	u	6.7	--	913	--	594	--	7.2	--	77	--
93071	Sluice Pond	W1304	8/10/05	12:01	4.5	16.8	--	6.6	--	915	--	595	--	6.0	--	61	--
93071	Sluice Pond	W1304	8/10/05	12:07	5.5	11.6	--	6.3	--	963	--	626	--	2.5	--	23	--
93071	Sluice Pond	W1304	8/10/05	12:13	8.0	5.8	--	6.1	--	1150	--	745	--	4.1	--	33	--
93071	Sluice Pond	W1304	8/10/05	12:21	10.1	4.5	--	6.2	--	1170	--	762	--	4.9	--	38	--
93071	Sluice Pond	W1304	8/10/05	12:28	13.9	4.5	--	6.2	--	1200	--	777	--	1.1	--	9	--
94133	Russell Pond	W1305	8/30/05	13:53	0.6	24.1	--	6.9	--	214	--	137	--	7.3	--	88	--
94133	Russell Pond	W1305	8/30/05	13:58	1.5	24.2	--	7.0	--	214	--	137	--	7.0	--	85	--
94133	Russell Pond	W1305	8/30/05	14:02	2.5	23.7	--	6.5	--	227	--	145	--	6.3	u	76	u
96004	Ashumet Pond	W1306	8/31/05	13:33	0.5	25.0	--	7.0	--	94	--	61	--	7.8	--	97	--
96004	Ashumet Pond	W1306	8/31/05	13:38	5.3	25.0	--	7.0	--	94	--	60	--	7.7	--	95	--
96004	Ashumet Pond	W1306	8/31/05	13:44	6.2	21.6	u	6.1	--	92	--	59	--	2.3	--	27	--
96004	Ashumet Pond	W1306	8/31/05	13:52	5.7	24.9	--	7.0	--	94	--	60	--	7.5	--	93	--
96004	Ashumet Pond	W1306	8/31/05	13:59	6.7	20.7	u	6.0	--	92	--	59	--	1.3	--	15	--
96004	Ashumet Pond	W1306	8/31/05	14:04	8.5	14.3	--	5.9	--	88	--	56	--	1.4	--	14	--
96004	Ashumet Pond	W1306	8/31/05	14:10	13.8	11.6	--	6.3	--	104	--	66	--	<0.2	--	<2	--
96004	Ashumet Pond	W1306	8/31/05	14:18	19.0	11.4	--	6.5	--	109	--	70	--	<0.2	--	<2	--
96091	Flax Pond	W1307	9/1/05	10:25	0.6	25.5	--	6.5	--	89	--	57	--	7.9	--	99	--
96091	Flax Pond	W1307	9/1/05	10:35	2.5	25.4	--	6.5	--	89	--	57	--	7.9	--	99	--
96091	Flax Pond	W1307	9/1/05	10:41	4.5	25.4	--	6.5	--	89	--	57	--	7.8	--	98	--
96091	Flax Pond	W1307	9/1/05	10:48	6.6	23.2	u	6.3	--	87	--	56	--	9.6	--	116	--
96091	Flax Pond	W1307	9/1/05	10:54	7.5	19.7	--	6.4	--	84	--	54	--	10.8	--	122	--
96091	Flax Pond	W1307	9/1/05	11:00	8.5	16.9	--	6.3	--	84	--	54	--	11.2	--	119	--
96091	Flax Pond	W1307	9/1/05	11:06	10.5	12.8	--	5.9	--	85	--	54	--	10.9	--	106	--
96091	Flax Pond	W1307	9/1/05	11:11	11.6	11.2	--	5.6	--	86	--	55	--	7.4	--	69	--
96091	Flax Pond	W1307	9/1/05	11:17	12.5	9.8	--	5.4	--	86	--	55	--	5.7	--	51	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
96091	Flax Pond	W1307	9/1/05	11:22	13.6	8.6	--	5.3	--	86	--	55	--	1.1	--	10	--
96091	Flax Pond	W1307	9/1/05	11:28	14.5	7.9	--	5.7	--	92	--	59	--	<0.2	--	<2	--
96091	Flax Pond	W1307	9/1/05	11:34	17.5	6.9	--	6.1	--	106	--	68	--	<0.2	--	<2	--
96091	Flax Pond	W1307	9/1/05	11:38	21.5	6.8	--	6.3	--	112	--	72	--	<0.2	--	<2	--
96194	Mashpee Pond	W1308	8/31/05	10:27	0.5	24.5	--	7.2	--	87	--	56	--	7.6	--	93	--
96194	Mashpee Pond	W1308	8/31/05	10:33	3.8	24.5	--	7.2	--	87	--	56	--	7.3	--	90	--
96194	Mashpee Pond	W1308	8/31/05	10:38	6.8	22.9	--	6.7	--	86	--	55	--	5.9	--	70	--
96194	Mashpee Pond	W1308	8/31/05	10:44	7.7	20.1	--	6.4	--	83	--	53	--	3.9	--	44	--
96194	Mashpee Pond	W1308	8/31/05	10:49	8.6	16.6	--	6.1	--	82	--	53	--	1.6	--	17	--
96194	Mashpee Pond	W1308	8/31/05	10:55	10.6	12.7	--	6.0	--	85	--	54	--	<0.2	--	<2	--
96194	Mashpee Pond	W1308	8/31/05	11:01	16.1	11.5	--	6.4	--	102	--	65	--	<0.2	--	<2	--
96194	Mashpee Pond	W1308	8/31/05	11:06	20.8	11.3	--	6.4	--	105	--	67	--	<0.2	--	<2	--
96194	Mashpee Pond	W1308	8/31/05	11:12	27.2	11.2	--	6.5	--	109	--	70	--	<0.2	--	<2	--
96279	Scargo Lake	W1309	9/1/05	13:16	0.5	26.0	--	7.1	--	121	--	78	--	8.0	--	102	--
96279	Scargo Lake	W1309	9/1/05	13:21	2.5	25.7	--	7.2	--	121	--	78	--	7.9	--	100	--
96279	Scargo Lake	W1309	9/1/05	13:26	4.5	25.4	--	7.1	--	121	--	78	--	8.1	--	101	--
96279	Scargo Lake	W1309	9/1/05	13:32	6.5	23.5	--	6.8	--	118	--	76	--	8.5	--	103	--
96279	Scargo Lake	W1309	9/1/05	13:37	7.4	18.5	--	6.2	--	111	--	71	--	6.3	--	69	--
96279	Scargo Lake	W1309	9/1/05	13:43	8.0	16.9	--	6.0	--	112	--	72	--	2.9	--	31	--
96279	Scargo Lake	W1309	9/1/05	13:49	8.5	16.0	--	5.9	--	112	--	72	--	0.7	--	7	--
96279	Scargo Lake	W1309	9/1/05	13:54	9.5	14.3	--	5.9	--	111	--	71	--	0.3	--	3	--
96279	Scargo Lake	W1309	9/1/05	13:59	11.5	12.3	--	6.3	--	134	--	86	--	<0.2	--	<2	--
96279	Scargo Lake	W1309	9/1/05	14:04	13.4	11.7	--	6.5	--	151	--	97	--	<0.2	--	<2	--
96307	Spectacle Pond	W1310	8/30/05	10:28	0.6	25.6	--	6.6	--	58	--	37	--	7.2	u	90	u
96307	Spectacle Pond	W1310	8/30/05	10:34	1.6	25.6	--	6.7	--	58	--	37	--	7.3	--	90	--
96307	Spectacle Pond	W1310	8/30/05	10:40	2.5	25.6	--	6.7	--	58	--	37	--	7.2	--	89	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
96307	Spectacle Pond	W1310	8/30/05	10:45	3.5	25.6	--	6.7	--	58	--	37	--	7.5	u	93	u
96307	Spectacle Pond	W1310	8/30/05	10:50	4.6	25.6	--	6.7	--	58	--	37	--	7.3	u	90	u
96307	Spectacle Pond	W1310	8/30/05	10:55	5.6	25.6	--	6.7	--	58	--	37	--	6.9	u	86	u
96307	Spectacle Pond	W1310	8/30/05	11:00	6.6	24.5	--	6.5	--	57	--	37	--	7.1	u	86	u
96307	Spectacle Pond	W1310	8/30/05	11:04	7.6	20.8	--	6.7	--	54	--	34	--	9.0	u	102	u
96307	Spectacle Pond	W1310	8/30/05	11:08	8.6	18.0	--	6.2	--	54	--	34	--	8.8	--	94	--
96307	Spectacle Pond	W1310	8/30/05	11:12	9.0	17.5	--	5.9	--	54	--	35	--	7.2	u	76	u
96307	Spectacle Pond	W1310	8/30/05	11:16	9.5	16.8	--	5.8	--	54	--	35	--	5.4	u	56	u
96307	Spectacle Pond	W1310	8/30/05	11:20	10.1	16.3	--	5.6	--	55	--	35	--	3.5	u	36	u
96307	Spectacle Pond	W1310	8/30/05	11:24	11.2	15.4	--	5.6	--	56	--	36	--	0.3	--	3	--
96307	Spectacle Pond	W1310	8/30/05	11:28	12.1	14.9	--	6.1	--	76	--	49	--	<0.2	--	<2	--
Baseline Lakes																	
95044	Dunham Pond	W1401	7/5/05	13:04	0.5	26.1	--	6.4	--	48	--	31	--	8.5	--	105	--
95044	Dunham Pond	W1401	7/5/05	13:15	1.1	25.8	--	6.4	--	48	--	31	--	8.6	--	106	--
95044	Dunham Pond	W1401	7/5/05	13:23	2.5	25.4	--	6.3	--	48	--	31	--	8.6	--	104	--
95044	Dunham Pond	W1401	7/5/05	13:32	3.0	21.3	--	6.4	--	47	--	31	--	10.0	--	113	--
95044	Dunham Pond	W1401	7/5/05	13:41	3.5	17.7	--	5.1	--	49	--	32	--	4.2	--	44	--
95044	Dunham Pond	W1401	7/5/05	13:51	4.5	13.1	--	5.0	--	50	--	32	--	0.3	--	3	--
95044	Dunham Pond	W1401	7/5/05	13:58	5.5	12.1	--	6.3	--	100	--	65	--	<0.2	--	<2	--
95044	Dunham Pond	W1401	8/11/05	14:56	0.5	28.9	--	7.6	--	50	--	33	--	8.5	--	111	--
95044	Dunham Pond	W1401	8/11/05	15:05	1.5	27.5	--	7.3	--	50	--	33	--	8.5	--	108	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
95044	Dunham Pond	W1401	8/11/05	15:13	2.5	26.6	--	6.6	--	50	--	33	--	7.9	--	99	--
95044	Dunham Pond	W1401	8/11/05	15:22	3.5	23.2	--	5.8	--	51	--	33	--	2.5	u	29	u
95044	Dunham Pond	W1401	8/11/05	15:27	4.0	19.2	--	5.8	--	54	--	35	--	0.8	--	9	--
95044	Dunham Pond	W1401	8/11/05	15:35	4.6	14.9	--	7.1	u	113	--	73	--	<0.2	--	<2	--
95044	Dunham Pond	W1401	9/1/05	11:36	0.5	25.1	--	7.0	--	49	--	32	--	8.9	--	108	--
95044	Dunham Pond	W1401	9/1/05	11:41	1.5	24.5	--	6.3	--	49	--	32	--	7.7	--	93	--
95044	Dunham Pond	W1401	9/1/05	11:48	2.5	24.4	--	6.2	--	47	--	31	--	7.2	--	86	--
95044	Dunham Pond	W1401	9/1/05	11:55	3.6	24.4	--	6.1	--	49	--	32	--	7.1	--	85	--
95044	Dunham Pond	W1401	9/1/05	12:03	4.5	23.4	--	5.9	--	50	--	32	--	4.2	u	49	u
95080	Leonards Pond	W1404	7/7/05	13:28	0.5	21.9	--	6.3	--	102	--	66	--	7.2	--	82	--
95080	Leonards Pond	W1404	7/7/05	13:39	1.5	21.9	--	6.4	--	102	--	66	--	7.0	--	80	--
95080	Leonards Pond	W1404	8/4/05	13:46	0.5	25.9	--	6.6	u	107	--	69	--	7.4	u	91	u
95080	Leonards Pond	W1404	8/4/05	13:57	1.2	23.7	--	6.2	--	112	--	73	--	0.5	--	6	--
95080	Leonards Pond	W1404	9/6/05	11:37	0.5	22.7	u	5.9	--	90	--	59	--	5.3	i	61	i
95080	Leonards Pond	W1404	9/6/05	11:46	1.0	22.5	--	5.9	--	90	--	58	--	4.8	i	56	i
95100	Marys Pond	W1403	7/7/05	10:57	0.7	23.3	--	5.8	--	37	--	24	--	8.3	--	97	--
95100	Marys Pond	W1403	7/7/05	11:06	1.5	23.3	--	5.8	--	37	--	24	--	8.3	--	97	--
95100	Marys Pond	W1403	7/7/05	11:13	2.5	23.2	--	5.9	--	37	--	24	--	8.3	--	97	--
95100	Marys Pond	W1403	7/7/05	11:18	3.6	23.2	--	5.8	--	37	--	24	--	8.3	--	97	--
95100	Marys Pond	W1403	7/7/05	11:25	4.6	16.9	--	5.5	--	35	--	23	--	9.2	--	95	--
95100	Marys Pond	W1403	7/7/05	11:32	5.6	15.3	--	5.4	--	36	--	23	--	8.5	--	85	--
95100	Marys Pond	W1403	7/7/05	11:40	6.5	13.6	--	5.0	--	37	--	24	--	4.9	--	47	--
95100	Marys Pond	W1403	7/7/05	11:46	7.5	13.2	--	4.9	--	37	--	24	--	3.4	--	32	--
95100	Marys Pond	W1403	8/4/05	10:29	0.5	26.8	--	6.5	--	38	--	25	--	8.1	--	102	--
95100	Marys Pond	W1403	8/4/05	10:37	1.5	26.6	--	6.5	--	38	--	25	--	8.1	--	101	--
95100	Marys Pond	W1403	8/4/05	10:45	2.4	26.4	--	6.3	--	38	--	25	--	7.8	--	96	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
95100	Marys Pond	W1403	8/4/05	10:54	3.5	25.8	--	6.3	--	38	--	25	--	7.8	--	96	--
95100	Marys Pond	W1403	8/4/05	11:04	4.5	24.0	--	6.0	--	37	--	24	--	7.5	--	89	--
95100	Marys Pond	W1403	8/4/05	11:13	5.5	19.6	--	5.9	--	36	--	23	--	7.6	--	83	--
95100	Marys Pond	W1403	8/4/05	11:21	6.5	16.8	--	5.8	--	36	--	24	--	6.0	--	61	--
95100	Marys Pond	W1403	8/4/05	11:30	7.5	14.9	--	5.7	--	38	--	25	--	2.0	--	19	--
95100	Marys Pond	W1403	8/4/05	11:38	8.1	14.5	--	5.7	--	38	--	25	--	1.1	--	10	--
95100	Marys Pond	W1403	9/6/05	9:44	0.5	24.6	--	6.2	--	36	--	24	--	8.2	i	98	i
95100	Marys Pond	W1403	9/6/05	9:52	1.5	24.6	--	6.2	--	36	--	24	--	8.1	i	97	i
95100	Marys Pond	W1403	9/6/05	9:59	2.5	24.6	--	6.2	--	37	--	24	--	8.0	i	96	i
95100	Marys Pond	W1403	9/6/05	10:07	3.6	24.5	--	6.2	--	37	--	24	--	7.8	i	93	i
95100	Marys Pond	W1403	9/6/05	10:14	4.6	24.4	--	6.1	--	39	--	25	--	7.5	i	90	i
95100	Marys Pond	W1403	9/6/05	10:21	5.5	24.2	--	6.0	--	39	--	25	--	7.3	i	88	i
95100	Marys Pond	W1403	9/6/05	10:31	6.0	24.0	--	6.0	--	37	--	24	--	7.0	i	83	i
95100	Marys Pond	W1403	9/6/05	10:39	6.6	21.6	--	5.7	--	37	--	24	--	3.4	i	39	i
95100	Marys Pond	W1403	9/6/05	10:47	7.9	16.7	--	5.7	--	38	--	25	--	0.6	i	6	i
95125	Sampson Pond	W1402	7/6/05	9:57	0.6	25.2	--	6.2	--	82	--	53	--	8.1	--	98	--
95125	Sampson Pond	W1402	7/6/05	10:05	1.5	25.2	--	6.3	--	83	--	54	--	8.0	--	97	--
95125	Sampson Pond	W1402	7/6/05	10:18	2.4	25.2	--	6.3	--	82	--	53	--	7.9	--	96	--
95125	Sampson Pond	W1402	7/6/05	10:28	3.5	21.6	--	5.8	--	87	--	56	--	1.7	--	20	--
95125	Sampson Pond	W1402	8/15/05	10:30	0.5	27.7	--	6.5	--	84	i	55	i	7.5	i	95	i
95125	Sampson Pond	W1402	8/15/05	10:38	1.5	27.7	--	6.5	--	84	i	55	i	7.4	i	94	i
95125	Sampson Pond	W1402	8/15/05	10:44	2.5	27.6	--	6.5	--	84	i	55	i	7.4	i	94	i
95125	Sampson Pond	W1402	8/15/05	10:52	3.3	27.6	--	6.5	--	84	i	55	i	7.3	i	93	i
95125	Sampson Pond	W1402	9/7/05	9:30	0.5	24.1	--	6.4	--	81	--	53	--	8.2	--	97	--
95125	Sampson Pond	W1402	9/7/05	9:38	1.6	24.0	--	6.3	--	85	--	55	--	7.9	--	94	--
95125	Sampson Pond	W1402	9/7/05	9:45	2.6	23.9	--	6.4	--	81	--	53	--	8.0	--	95	--

PALIS	Name	Unique ID	Date	Time	Sample Depth (m)	Temp(C)	Temp Qualifer	pH (SU)	pH Qual	SpCond (uS/cm)	SpCond Qual	TDS (mg/l)	TDS Qual	DO (mg/l)	DO Qual	DOsat (%)	DOsat Qual
95125	Sampson Pond	W1402	9/7/05	9:53	3.6	23.8	--	6.3	--	81	--	53	--	7.9	--	94	--
95125	Sampson Pond	W1402	9/7/05	10:00	0.5	24.0	--	6.4	--	81	--	53	--	8.1	--	96	--
95125	Sampson Pond	W1402	9/7/05	10:07	1.5	23.9	--	6.4	--	81	--	53	--	8.0	--	95	--
95125	Sampson Pond	W1402	9/7/05	10:14	2.5	23.9	--	6.4	--	83	--	54	--	8.0	--	95	--
95125	Sampson Pond	W1402	9/7/05	10:22	3.5	23.8	--	6.3	--	81	--	53	--	7.7	--	91	--
95137	Snipatuit Pond	W1405	7/14/05	10:56	0.5	24.6	--	6.5	--	49	--	32	--	8.0	--	96	--
95137	Snipatuit Pond	W1405	7/14/05	11:06	1.0	24.5	--	6.5	--	49	--	32	--	8.0	--	96	--
95137	Snipatuit Pond	W1405	8/15/05	13:06	0.5	27.3	--	6.5	--	52	i	34	i	7.3	i	92	i
95137	Snipatuit Pond	W1405	8/15/05	13:15	1.0	27.3	--	6.5	--	52	i	34	i	7.3	i	91	i
95137	Snipatuit Pond	W1405	9/7/05	11:46	0.5	23.6	u	6.1	--	48	--	31	--	7.8	--	92	--
95137	Snipatuit Pond	W1405	9/7/05	11:55	1.2	23.1	--	6.1	--	48	--	31	--	7.5	--	87	--
95158	Wenham Pond	W1400	7/5/05	10:41	0.5	25.0	--	7.0	--	89	--	58	--	9.4	--	114	--
95158	Wenham Pond	W1400	7/5/05	10:55	1.5	24.5	--	7.2	--	89	--	58	--	9.4	--	112	--
95158	Wenham Pond	W1400	7/5/05	11:05	2.3	22.7	--	5.9	--	93	--	61	--	4.0	u	47	u
95158	Wenham Pond	W1400	7/5/05	11:14	2.0	23.9	--	6.3	--	90	--	58	--	8.2	u	98	u
95158	Wenham Pond	W1400	8/11/05	10:24	0.5	27.2	--	6.7	--	97	--	63	--	7.1	--	90	--
95158	Wenham Pond	W1400	8/11/05	10:32	1.2	26.9	--	6.6	--	97	--	63	--	6.7	--	84	--
95158	Wenham Pond	W1400	8/11/05	10:40	1.8	26.7	--	6.5	--	97	--	63	--	6.1	--	76	--
95158	Wenham Pond	W1400	8/11/05	10:49	0.5	27.3	--	6.8	--	98	--	63	--	7.2	--	91	--
95158	Wenham Pond	W1400	8/11/05	10:55	1.2	27.0	--	6.6	--	97	--	63	--	6.7	--	84	--
95158	Wenham Pond	W1400	8/11/05	11:03	1.8	26.7	--	6.5	--	97	--	63	--	5.9	--	74	--
95158	Wenham Pond	W1400	9/1/05	9:29	0.5	24.7	--	6.2	--	92	--	60	--	6.4	--	78	--
95158	Wenham Pond	W1400	9/1/05	9:37	1.0	24.6	--	6.2	--	91	--	59	--	6.4	--	76	--
95158	Wenham Pond	W1400	9/1/05	9:45	1.7	24.5	--	6.2	--	91	--	59	--	6.2	--	74	--

Table 6. Trout Space (<20C and >=6 mg DO) for deep Lakes.

Palis	Name	Date	Trout Space (m)
21043	Goose Pond	8/24/05	1.8
21078	Onota Lake	8/23/05	2.1
21105	Stockbridge Bowl	8/24/05	2.7
32054	Norwich Pond	9/6/05	0
32076	Windsor Pond	8/23/05	0
35053	Packard Pond	8/17/05	0
36084	Lake Lorraine	9/6/05	1.4
41001	Alum Pond	9/7/05	0.7
42064	Webster Lake	9/7/05	0
51125	Lake Quinsigamond	8/16/05	0
71019	Horn Pond	8/23/05	0
71043	Upper Mystic Lake	8/10/05	0.6
72039	Farm Pond	9/13/05	3.3
72052	Jamaica Pond	9/13/05	2.8
81046	Fort Pond	8/2/05	0.4
81085	Mirror Lake	8/3/05	5.1
81132	Spectacle Pond	8/3/05	4.8
82061	Hopkinton Reservoir	8/23/05	0
82112	Waushacum Pond	8/17/05	0
82118	White Pond	9/13/05	3.0
82125	Lake Cochituate	9/13/05	0
84036	Baddacook Pond	8/2/05	0
91001	Baldpate Pond	8/10/05	1.9
93071	Sluice Pond	8/10/05	0.5
94133	Russell Pond	8/30/05	Too shallow
96004	Ashumet Pond	8/31/05	0
96091	Flax Pond	9/1/05	4.9
96194	Mashpee Pond	8/31/05	0
96279	Scargo Lake	9/1/05	0.3
96307	Spectacle Pond	8/30/05	1.4

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APPENDIX 1: 2005 DATA SYMBOLS AND QUALIFIERS

Excerpted from: Water Quality Data Validation Report for Year 2006 Project Data (CN 300.0)

The following data qualifiers or symbols are used in the MADEP/DWM WQD database for qualified and censored water quality and multi-probe data. Decisions regarding censoring vs. qualification for specific, problematic data are made based on a thorough review of all pertinent information related to the data.

General Symbols (applicable to all types):

" ## " = Censored data (i.e., data that has been discarded for some reason).

" ** " = Missing data (i.e., data that should have been reported).

" -- " = No data (i.e., data not taken/not required)

" ^^ " = No data due to no water

Multi-probe-specific Qualifiers:

" i " = inaccurate readings from Multi-probe likely; may be due to significant pre-survey calibration problems, post-survey checks outside typical acceptance ranges for the low ionic and deionized water checks, lack of calibration of the depth sensor prior to use, or to checks against laboratory analyses. Where documentation on unit pre-calibration is lacking, but SOPs at the time of sampling dictated pre-calibration prior to use, then data are considered potentially inaccurate.

" m " = method not followed; one or more protocols contained in the DWM Multi-probe SOP not followed, i.e., operator error (e.g., less than 3 readings per station (rivers) or per depth (lakes), or instrument failure not allowing method to be implemented.

" s " = field sheet recorded data were used to accept data, not data electronically recorded in the Multi-probe surveyor unit, due to operator error or equipment failure.

" u " = unstable readings, due to lack of sufficient equilibration time prior to final readings, non-representative location, highly-variable water quality conditions, etc. See Section 4.1 for acceptance criteria.

" c " = greater than calibration standard used for pre-calibration, or outside the acceptable range about the calibration standard. Typically used for conductivity (>718, 1,413, 2,760, 6,668 or 12,900 uS/cm) or turbidity (>10, 20 or 40 NTU). It can also be used for TDS and Salinity calculations based on qualified ("c") conductivity data, or that the calculation was not possible due to censored conductivity data (TDS and Salinity are calculated values and entirely based on conductivity reading). See Section 4.1 for acceptance criteria.

" r " = data not representative of actual field conditions.

" t " = tidal conditions

Sample-Specific Qualifiers:

" a " = accuracy as estimated at WES Lab via matrix spikes, PT sample recoveries, internal check standards and lab-fortified blanks did not meet project data quality objectives identified for program or in QAPP.

" b " = blank Contamination in lab reagent blanks and/or field blank samples (indicating possible bias high and false positives).

" d " = precision of field duplicates (as RPD) did not meet project data quality objectives identified for program or in QAPP. Batched samples may also be affected.

“ e ” = not theoretically possible. Specifically, used for bacteria data where colonies per unit volume for e-coli bacteria > fecal coliform bacteria, for lake Secchi and station depth data where a specific Secchi depth is greater than the reported station depth, and for other incongruous or conflicting results.

“ f ” = frequency of quality control duplicates did not meet data quality objectives identified for program or in QAPP.

“ h ” = holding time violation (usually indicating possible bias low)

“ j ” = ‘estimated’ value; used for lab-related issues where certain lab QC criteria are not met and re-testing is not possible (as identified by the WES lab only). Also used to report sample data where the sample concentration is less than the ‘reporting’ limit or RDL and greater than the method detection limit or MDL (mdl< x <rdl). Also used to note where values have been reported at levels less than the mdl.

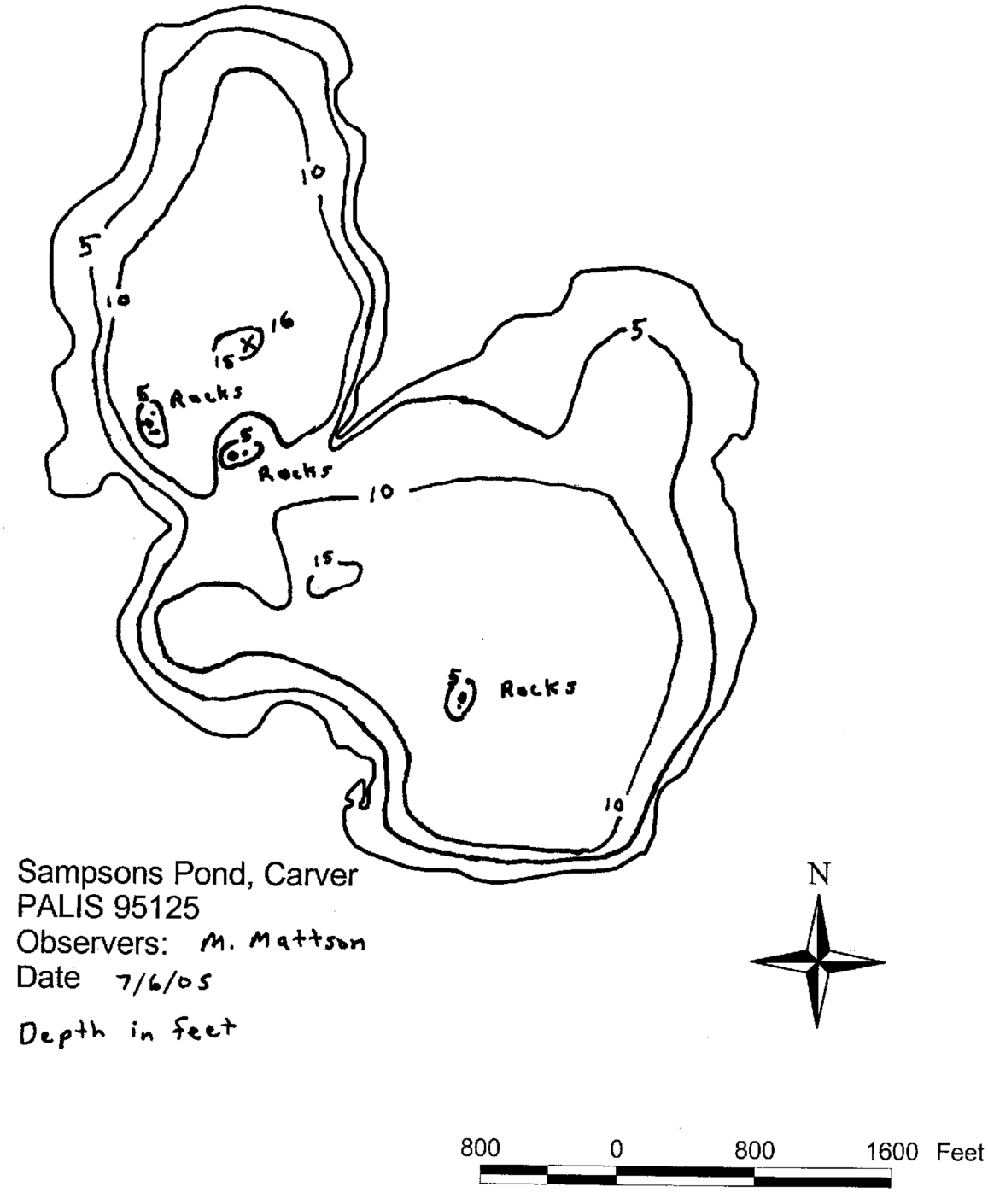
“ m ” = method SOP not followed, only partially implemented or not implemented at all, due to complications with sample matrix (e.g., sediment in sample, floc formation), lab error (e.g., cross-contamination between samples), additional steps taken by the lab to deal with matrix complications, lost/unanalyzed samples, and missing data.

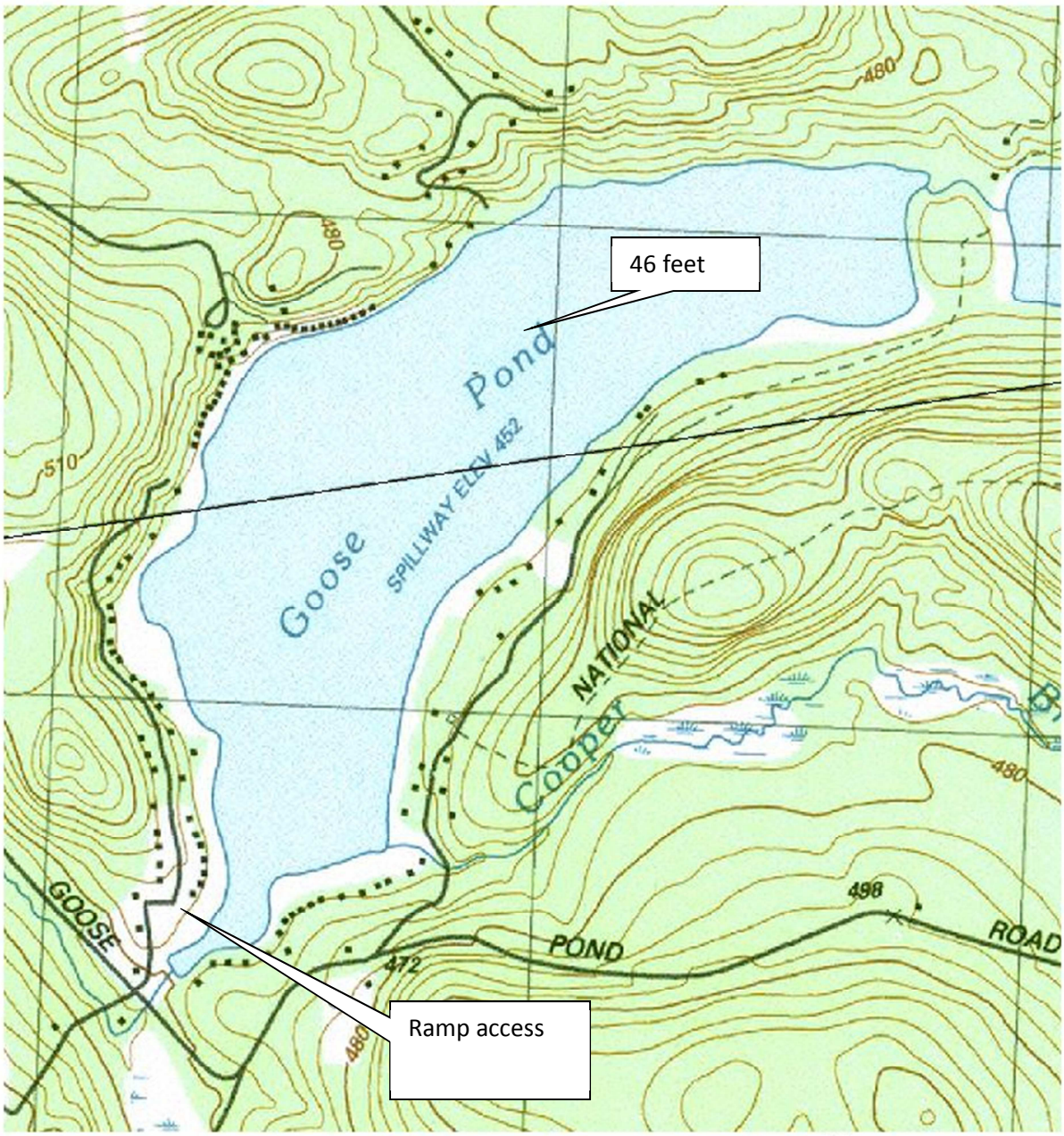
“ p ” = samples not preserved per SOP or analytical method requirements.

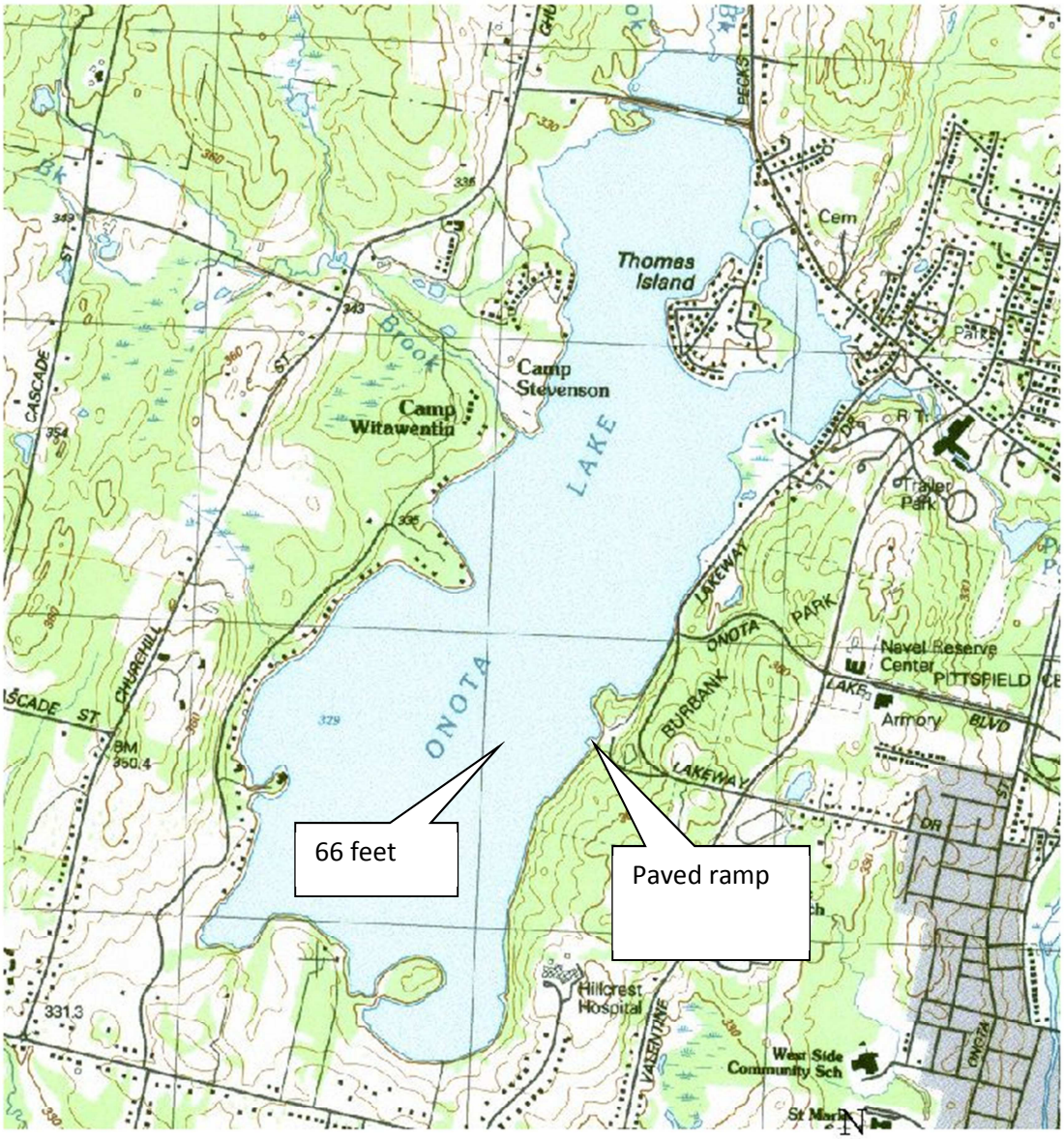
“ r ” = samples collected may not be representative of actual field conditions, including the possibility of “outlier” data and flow-limited conditions (e.g., pooled).

“ t ” = tidal conditions

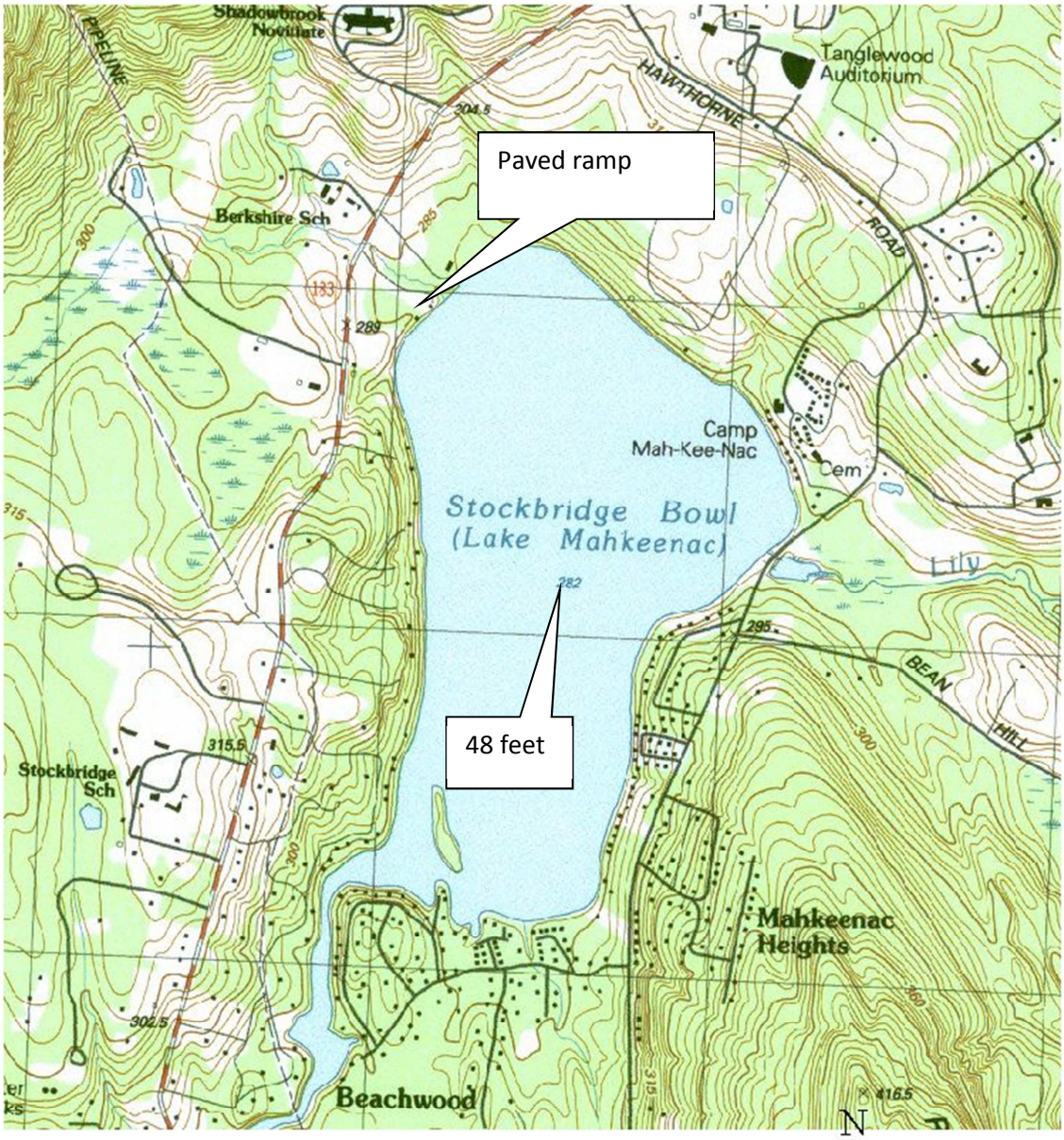
Appendix 2: Lake Maps.



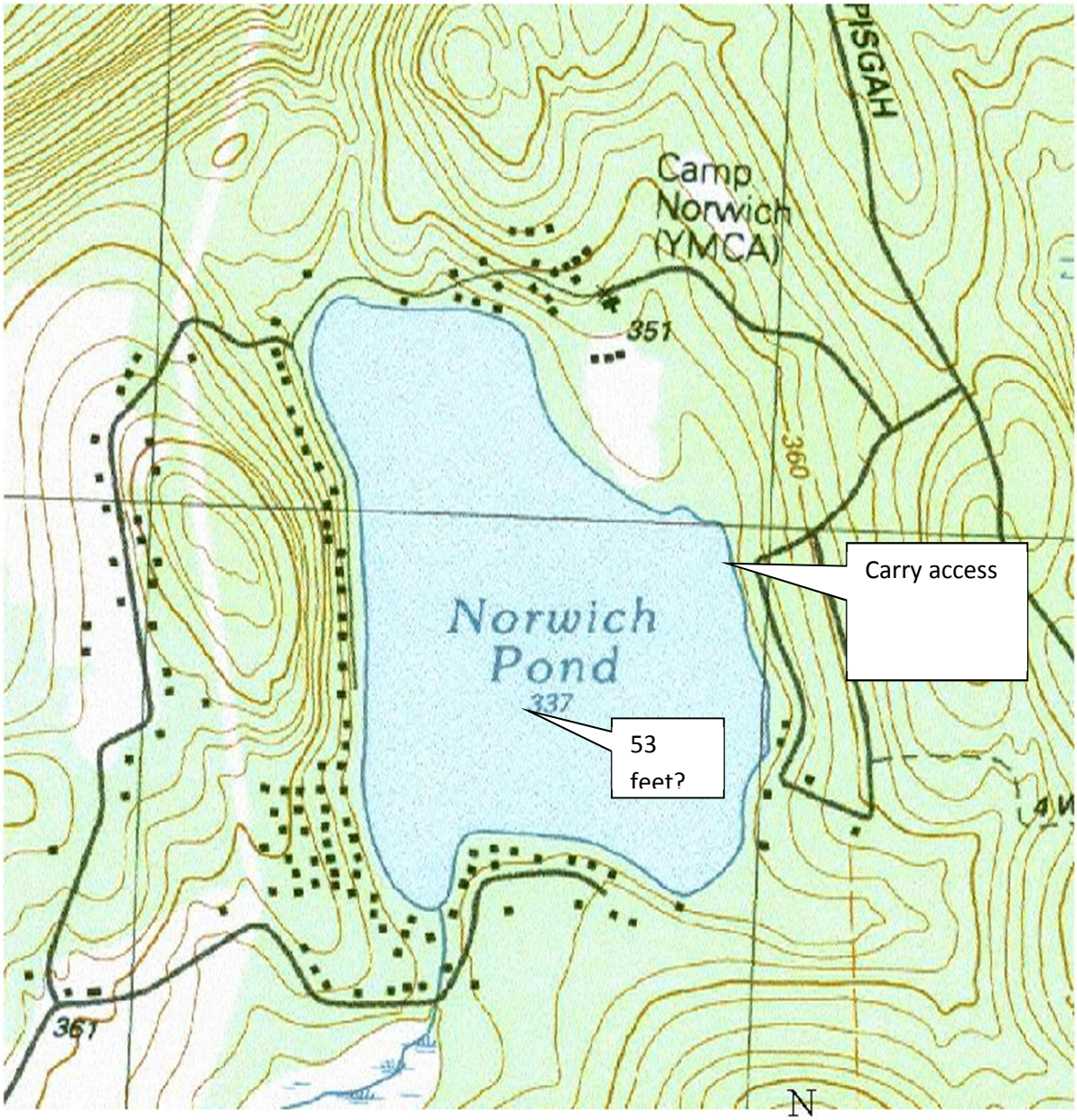

46 feet
Pond
Goose
SPILLWAY ELEV 452
510
490
480
NATIONAL
Cooper
GOOSE
POND
ROAD
472
498
Ramp access
N
400 0 400 800 Feet
Goose Pond Palis 21043
Lee



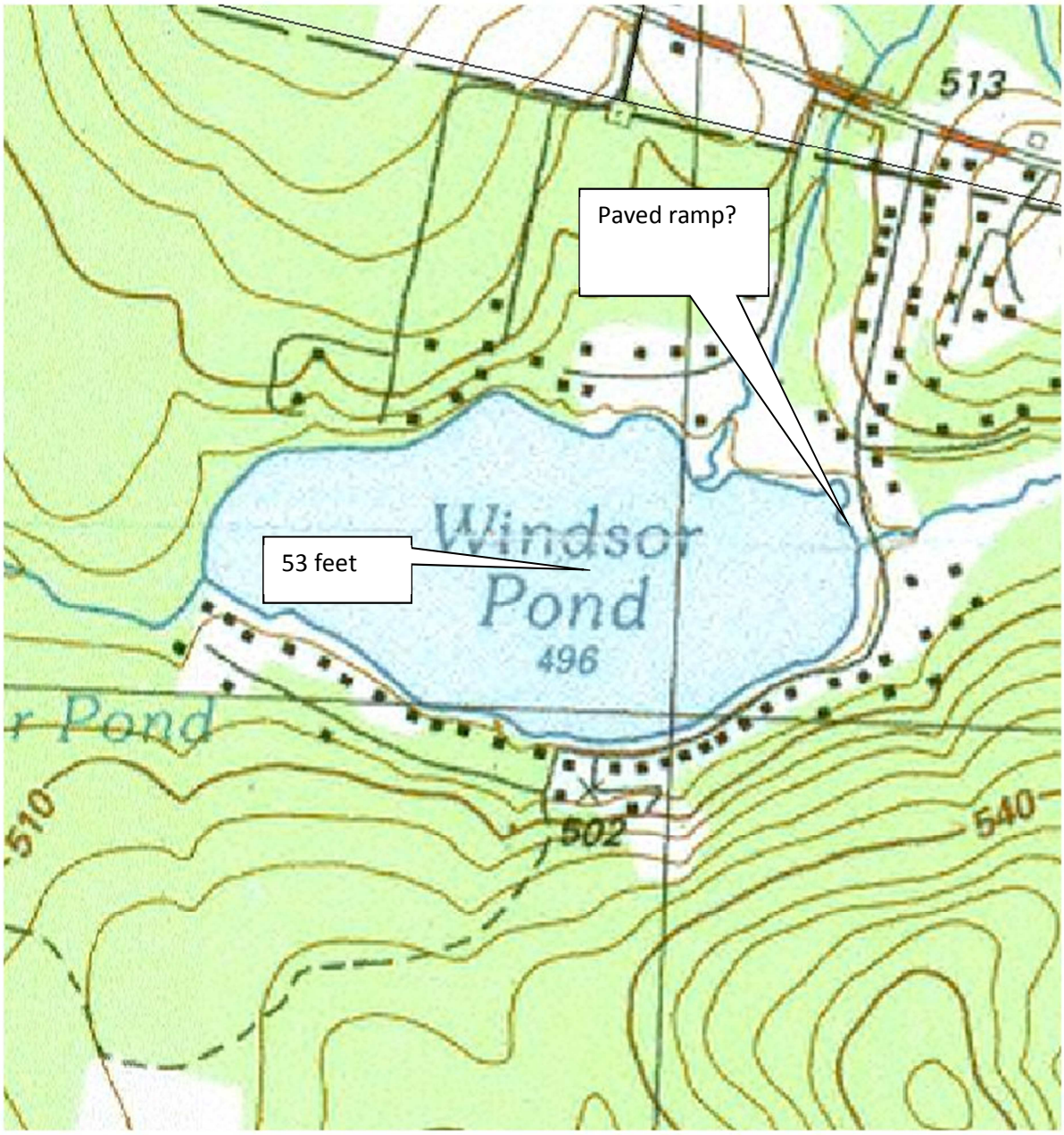
Onota Lake Palis 21078
Pittsfield

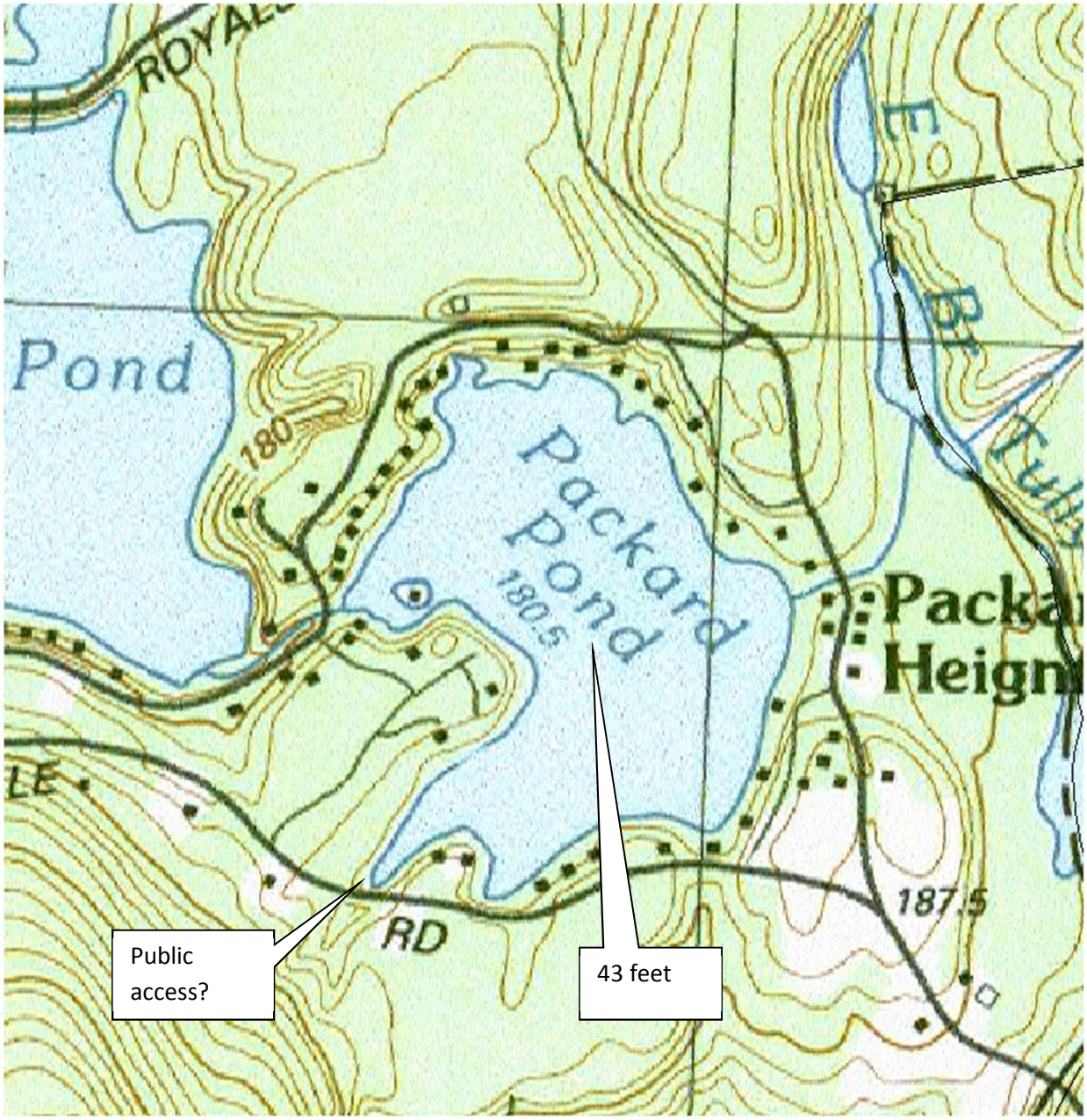


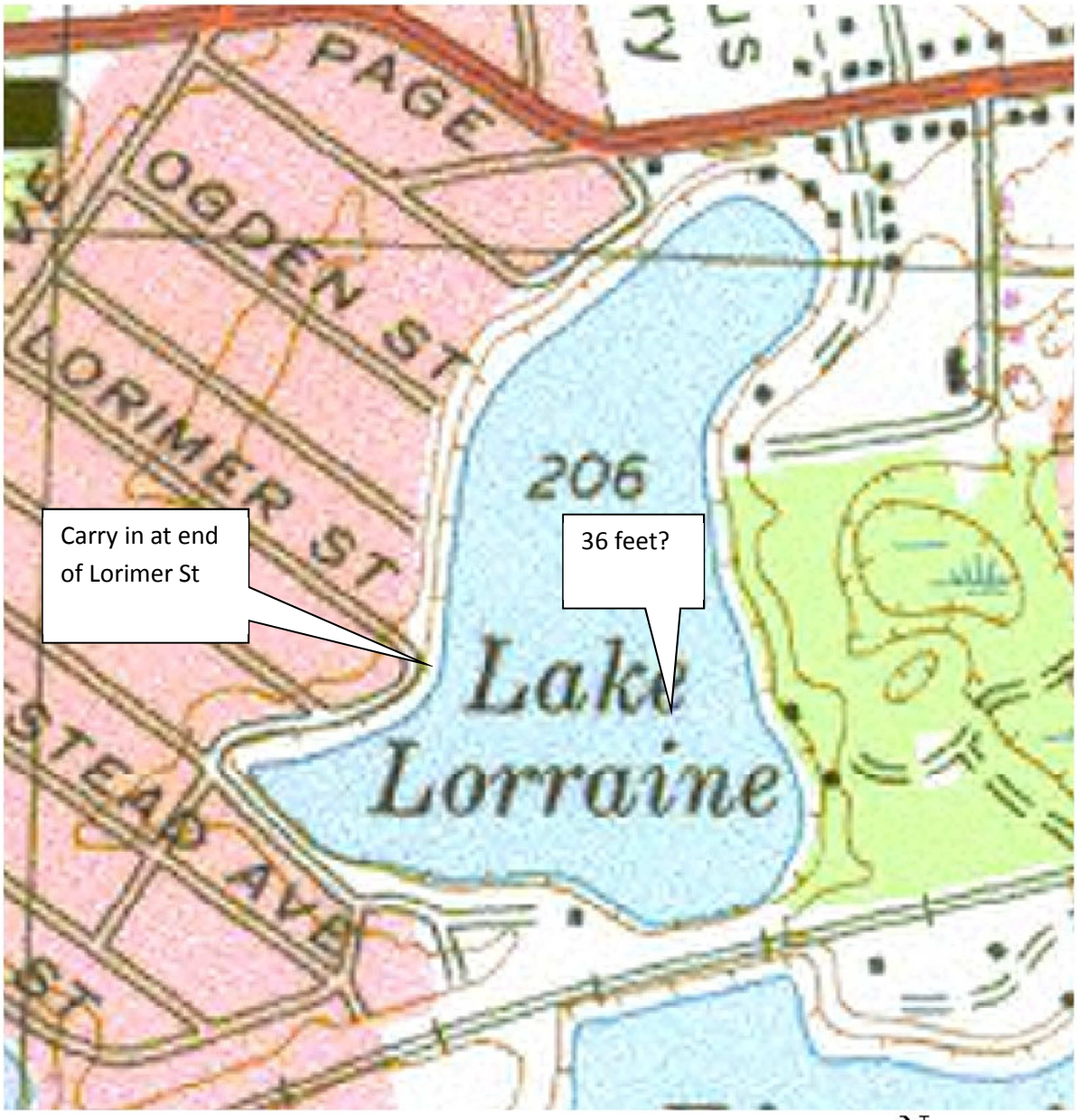
Stockbridge Bowl Palis 21105
(Lake Mahkeenac)
Stockbridge



Norwich Pond Palis 32054
Huntington


513
Paved ramp?
53 feet
Windsor
Pond
496
r Pond
510
502
540
N
400 0 400 800 Feet
Windsor Pond Palis 32076
Windsor

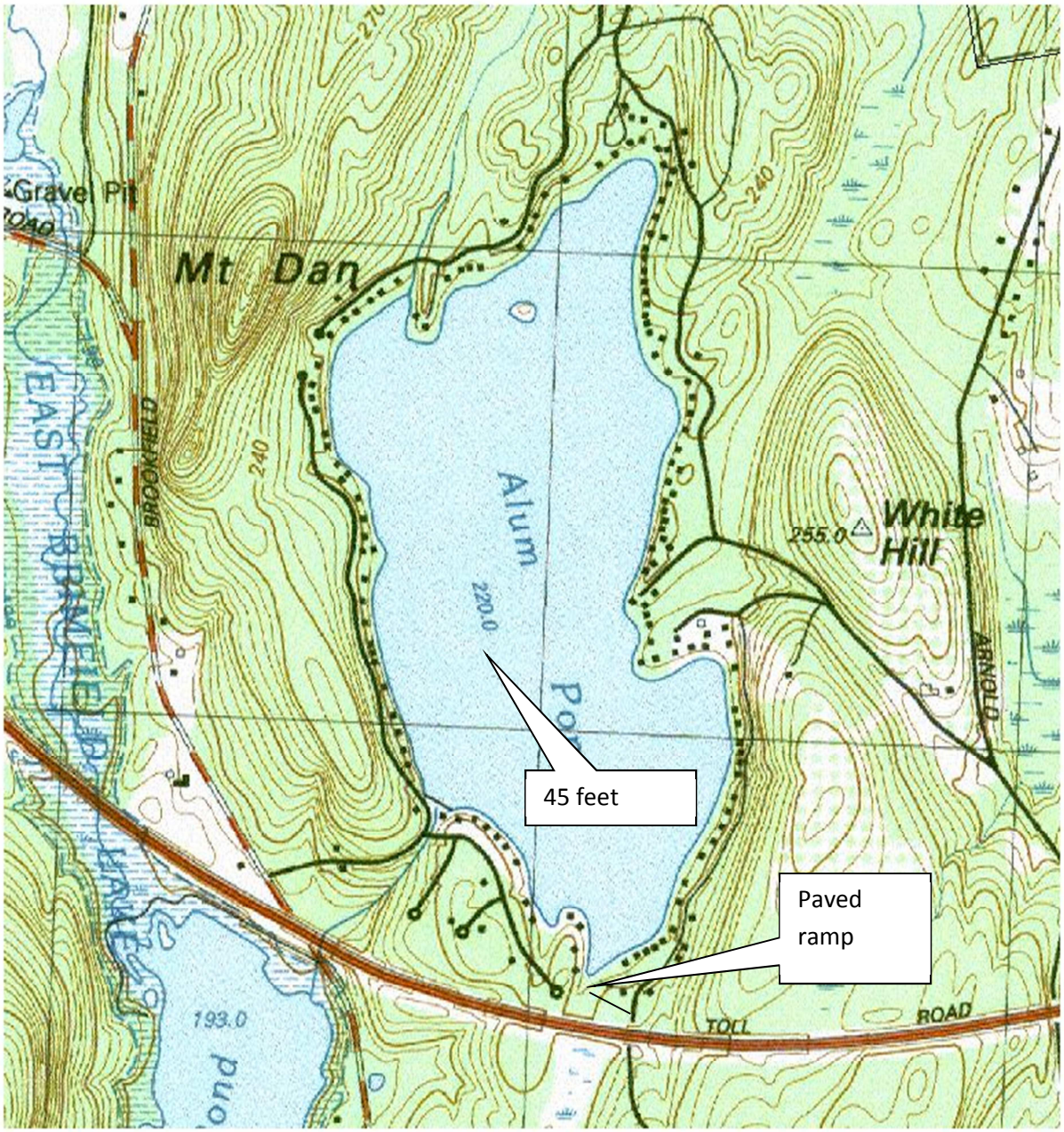

Pond
180
Packard Pond
180.5
RD
187.5
Public access?
43 feet
400 0 400 800 Feet
N
Packard Pond Palis 35053
Orange



400 0 400 800 Feet

N

Lake Lorraine Palis 36084
Springfield



N

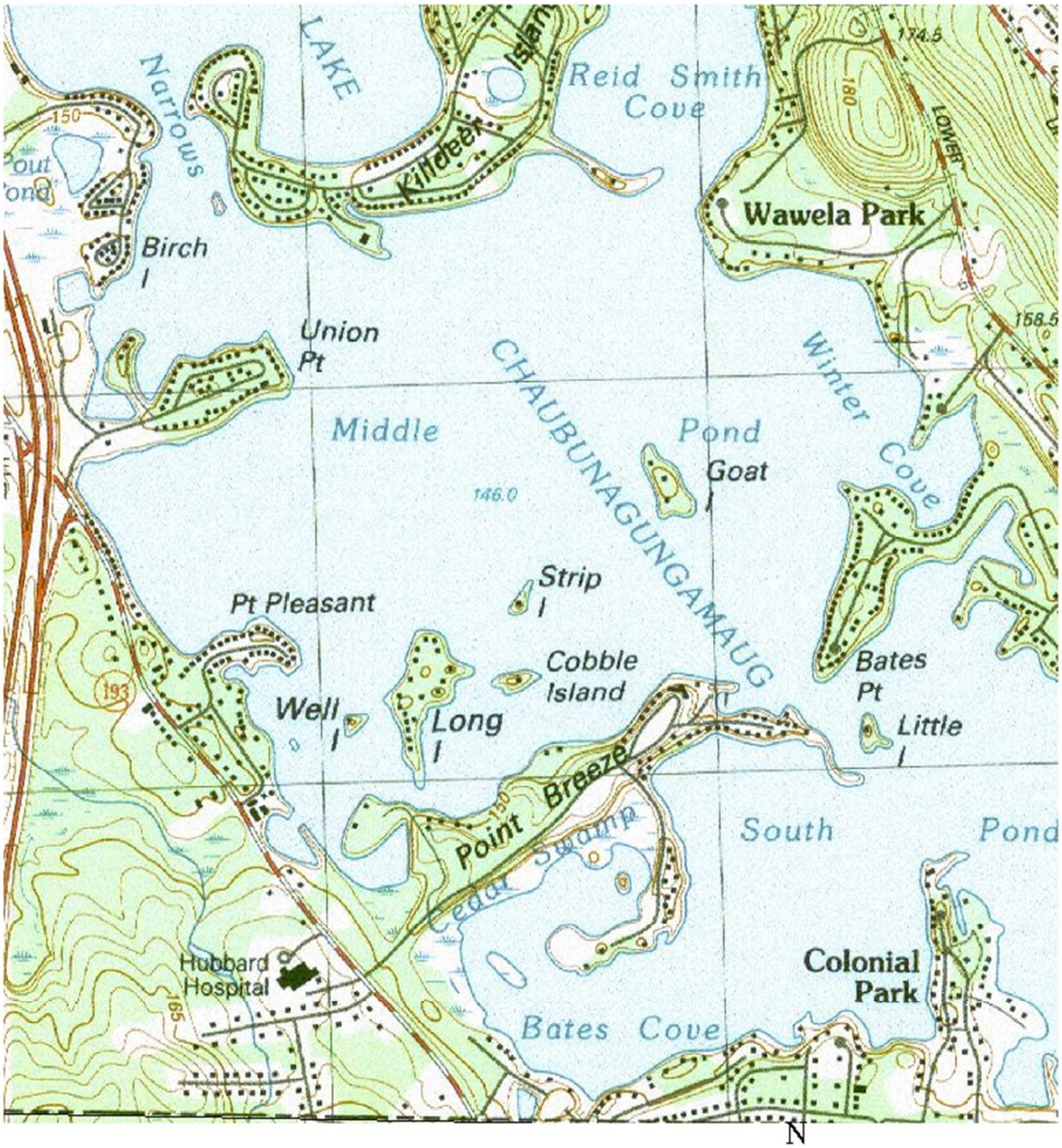
400 0 400 800 Feet

Alum Pond Palis 41001
Sturbridge

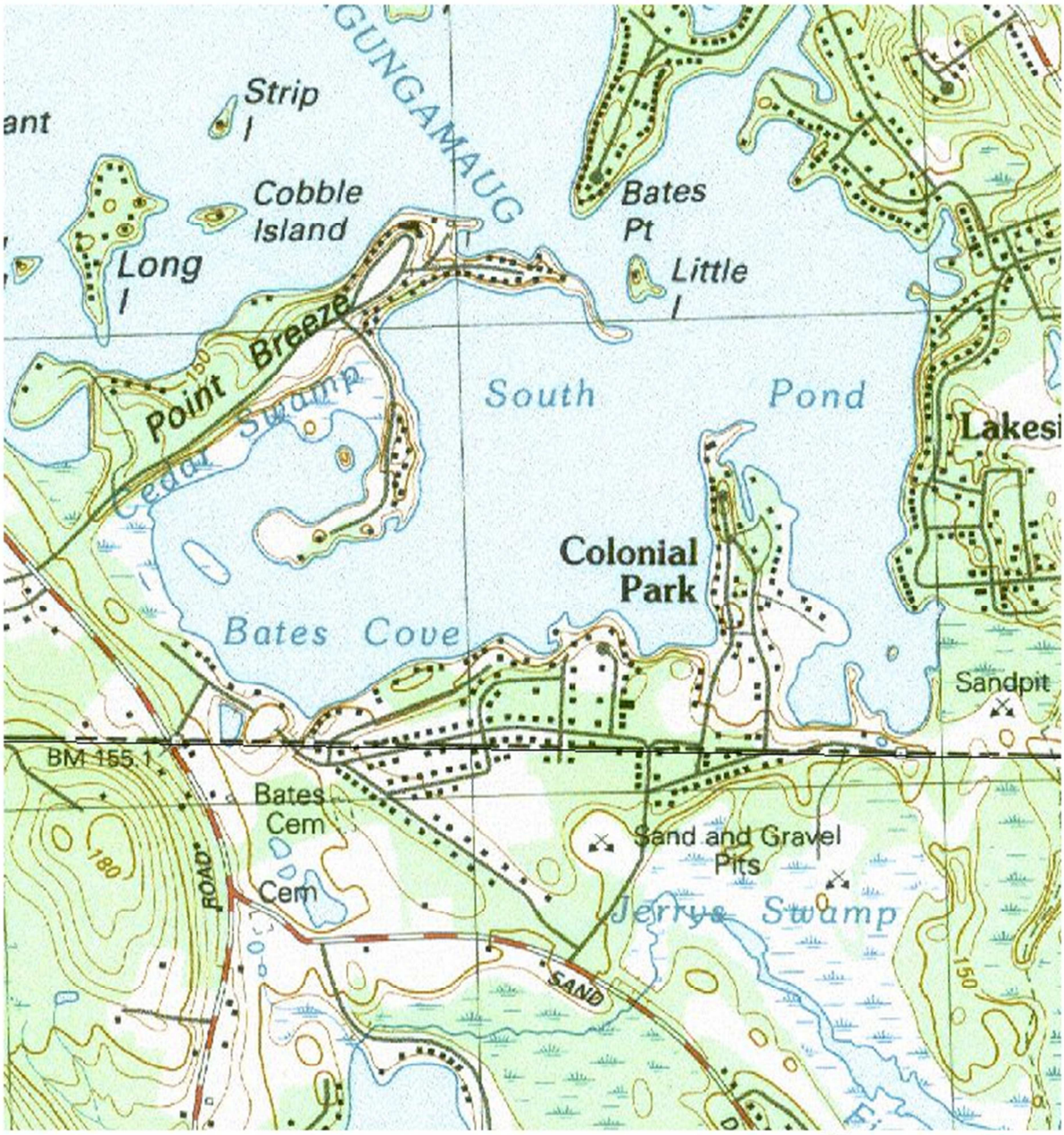
400 0 400 800 Feet

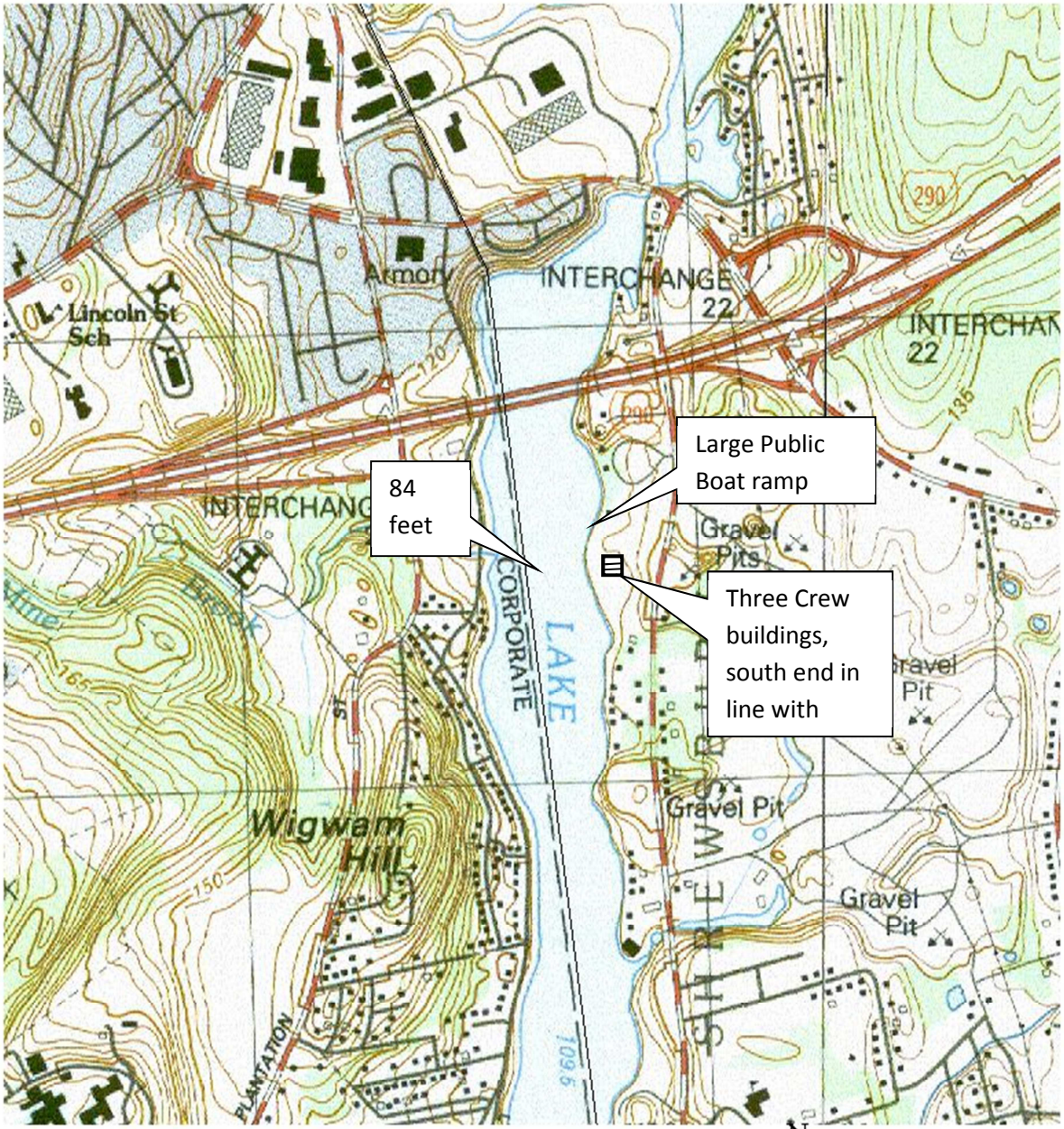
N

Webster Lake North Palis 42064
Webster



Webster Lake Middle Palis 42064
Webster

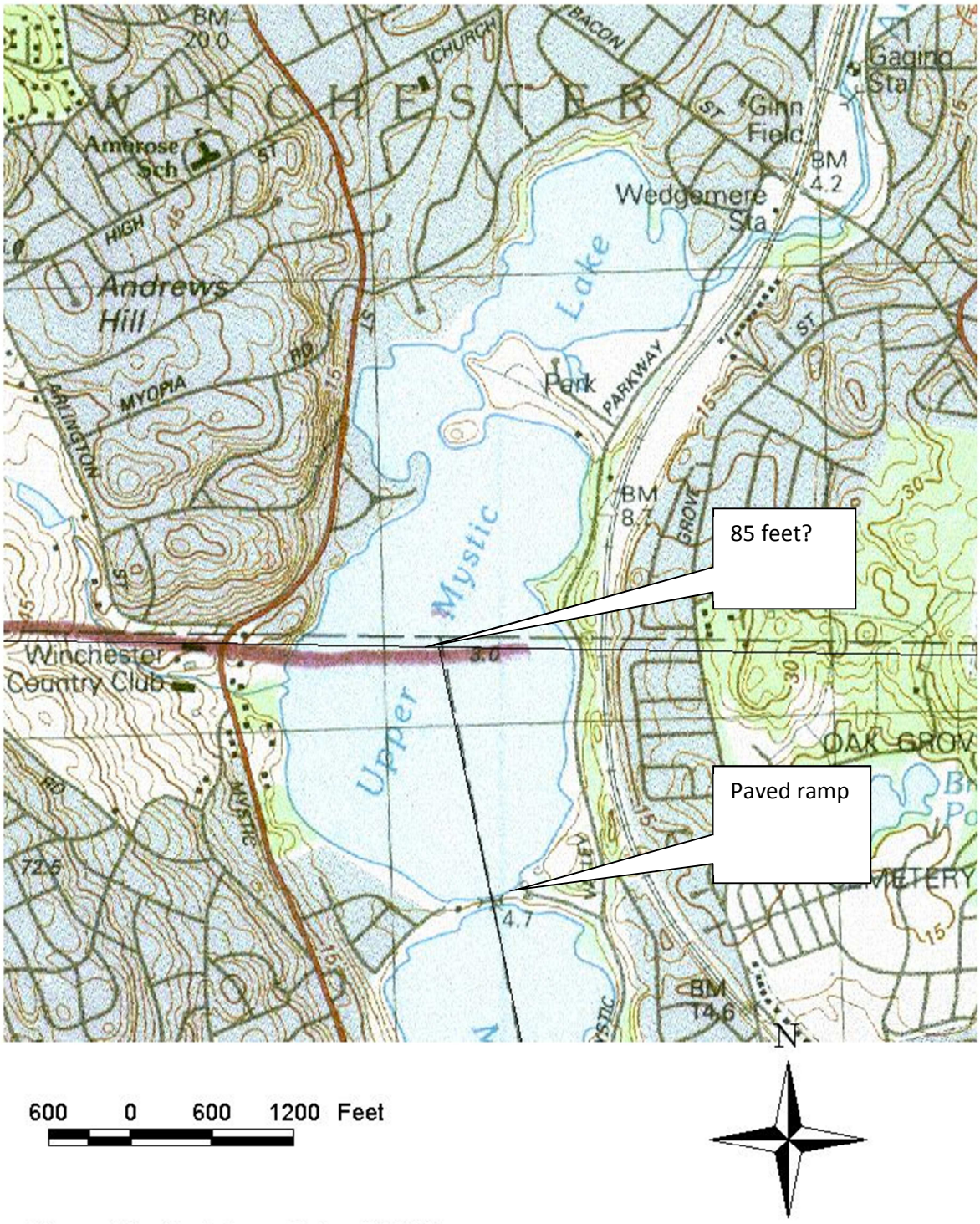

Strip
I
Cobble
Island
Long
I
GUNGAMAUG
Bates
Pt
Little
I
Point Breeze
150
Cedar Swamp
South
Pond
Lakesi
Colonial
Park
Bates Cove
Sandpit
BM 155.1
Bates
Cem
Cem
180
ROAD
Sand and Gravel
Pits
Jerrys Swamp
SAND
150
N
400 0 400 800 Feet
Webster Lake South Palis 42064
Webster



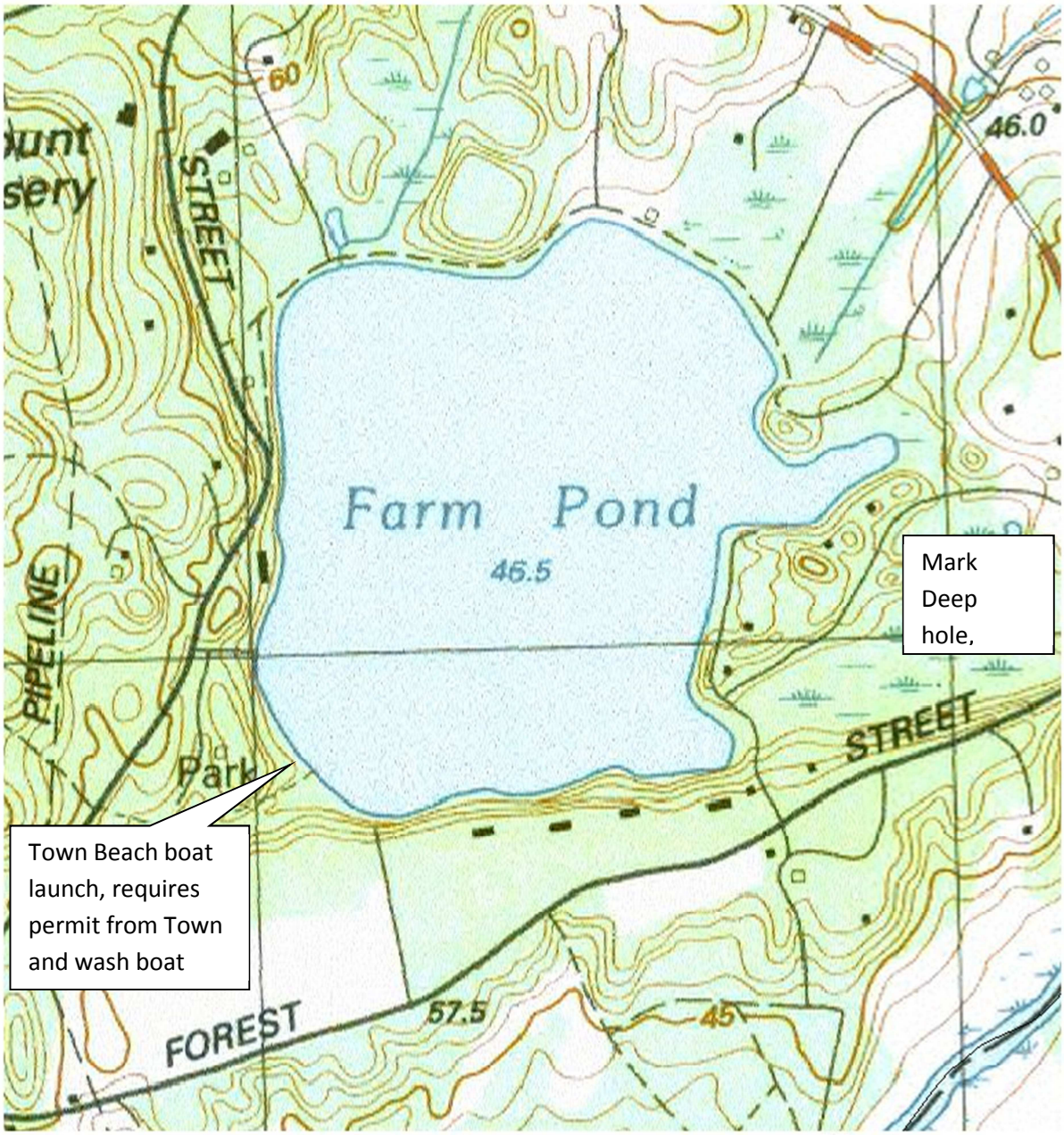
N. Lake Quinsigamond (upper)
Palis 51125
Shrewsbury

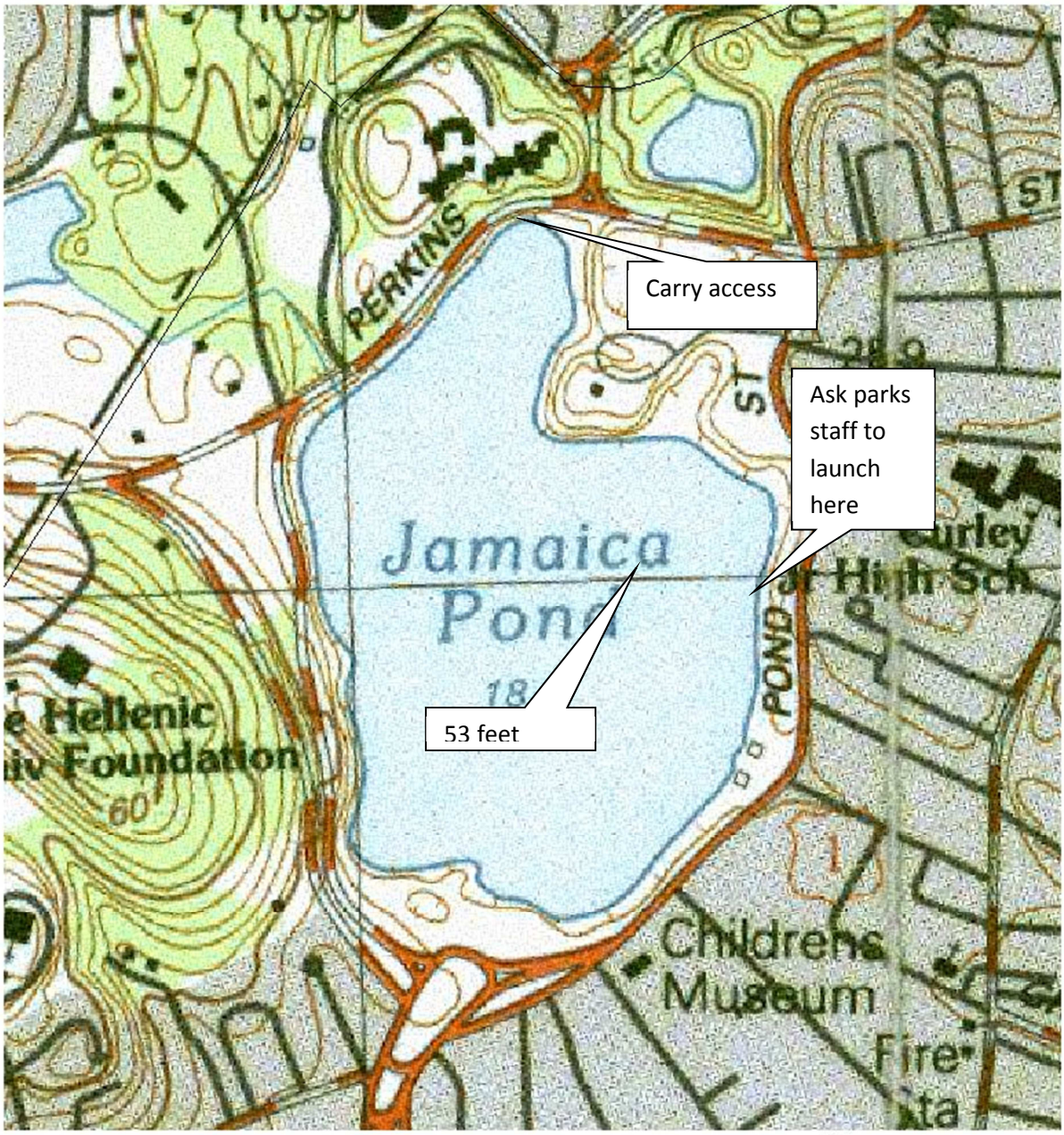
N. Lake Quinsigamond (lower)
Palis 51125
Shrewsbury

Horn Pond Palis 71019
Woburn

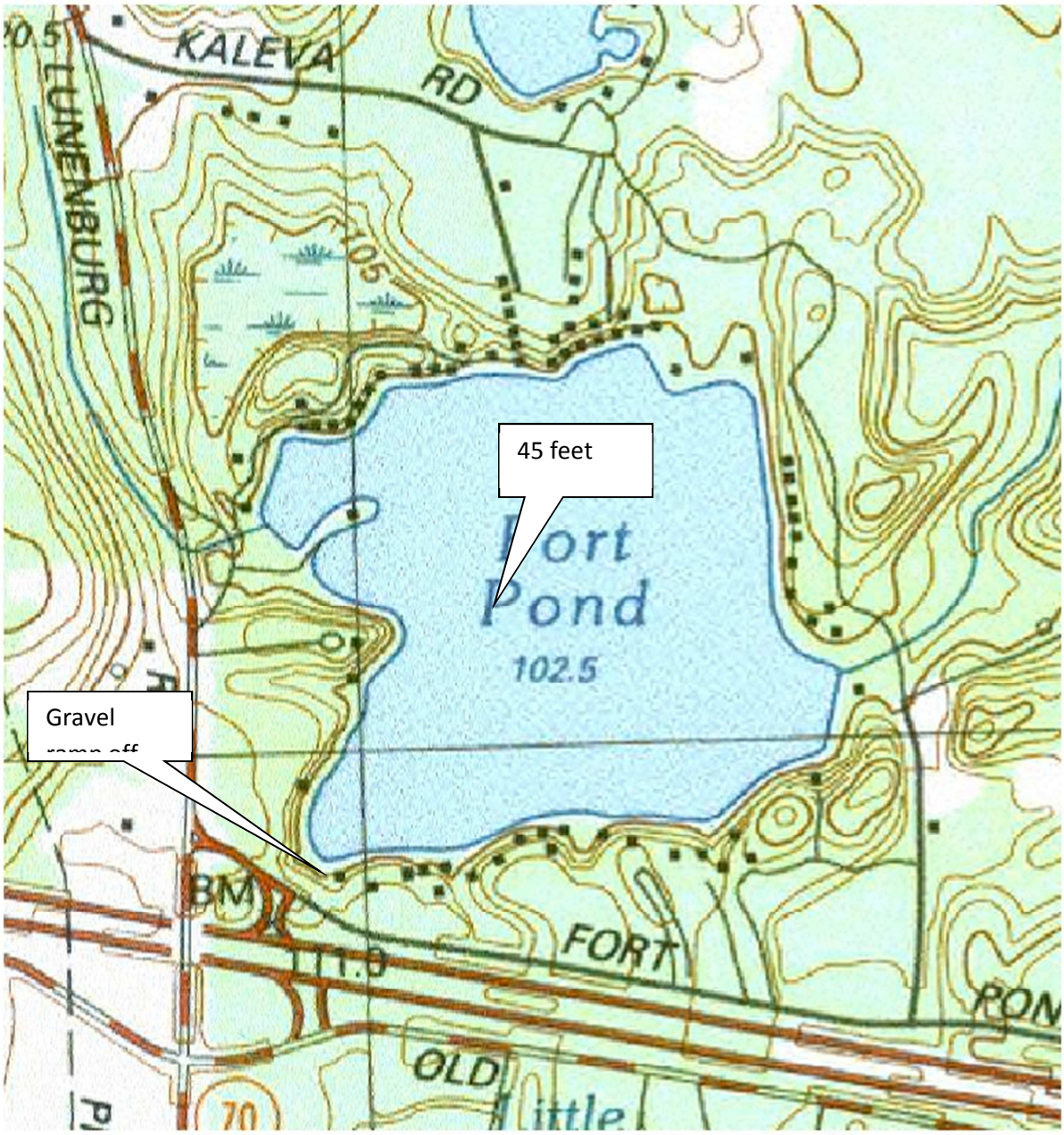


Upper Mystic Lake Palis 71043
Winchester

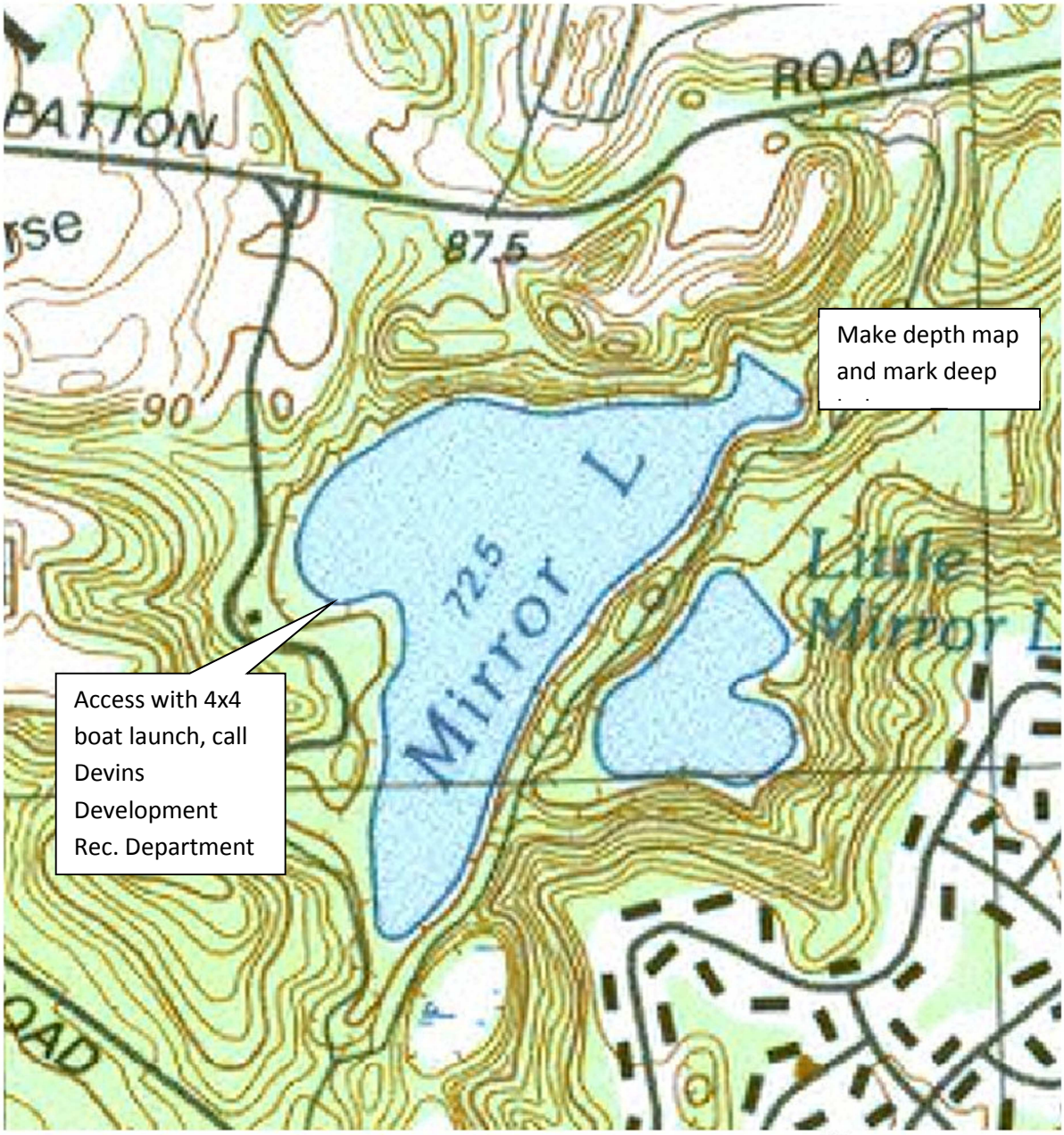

60
46.0
STREET
Farm Pond
46.5
Mark
Deep
hole,
PIPELINE
Park
STREET
Town Beach boat launch, requires permit from Town and wash boat
FOREST
57.5
45
N
400 0 400 800 Feet
Farm Pond Palis 72039
Sherborn

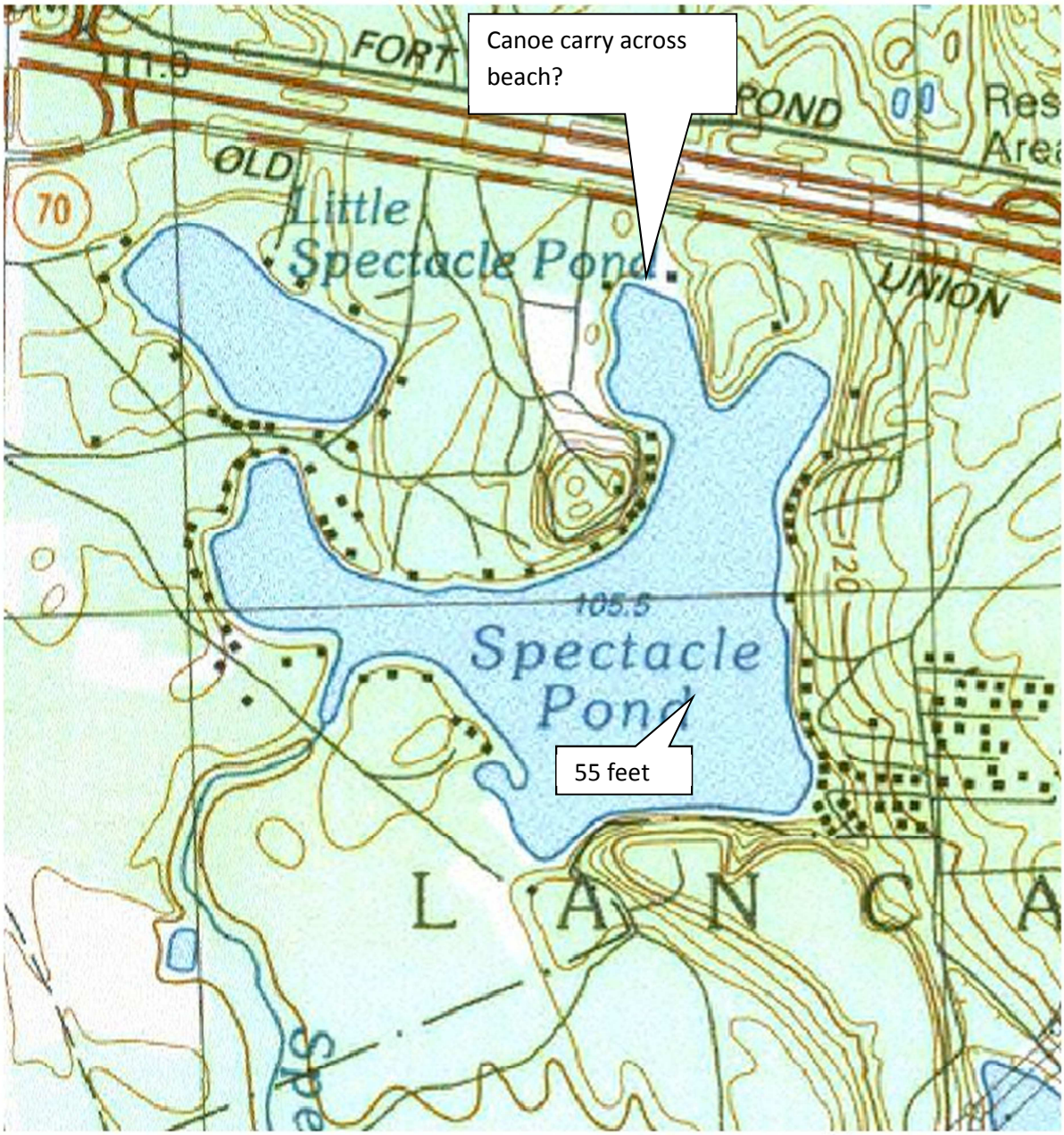


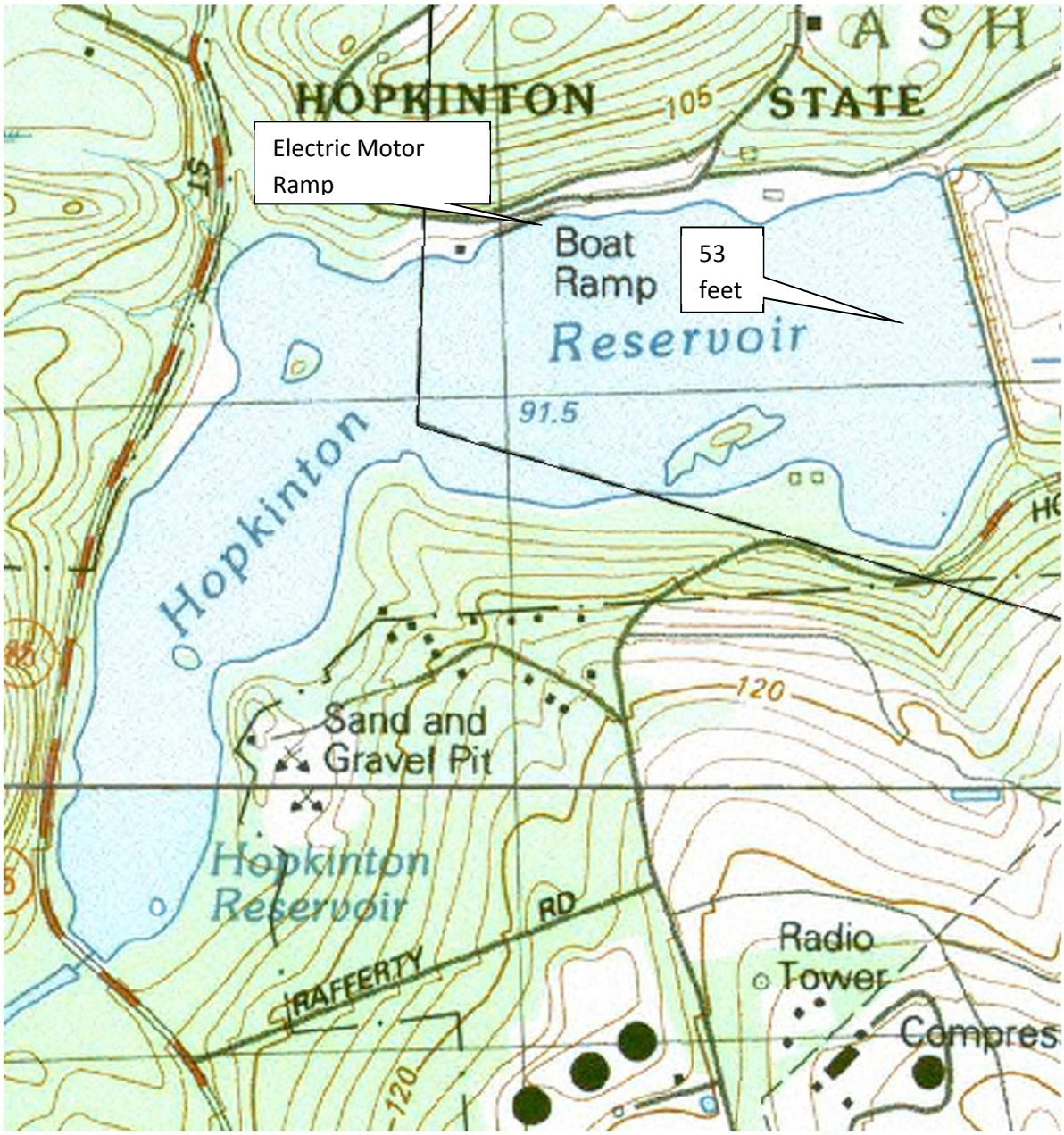
Jamaica Pond Palis 72052
Boston



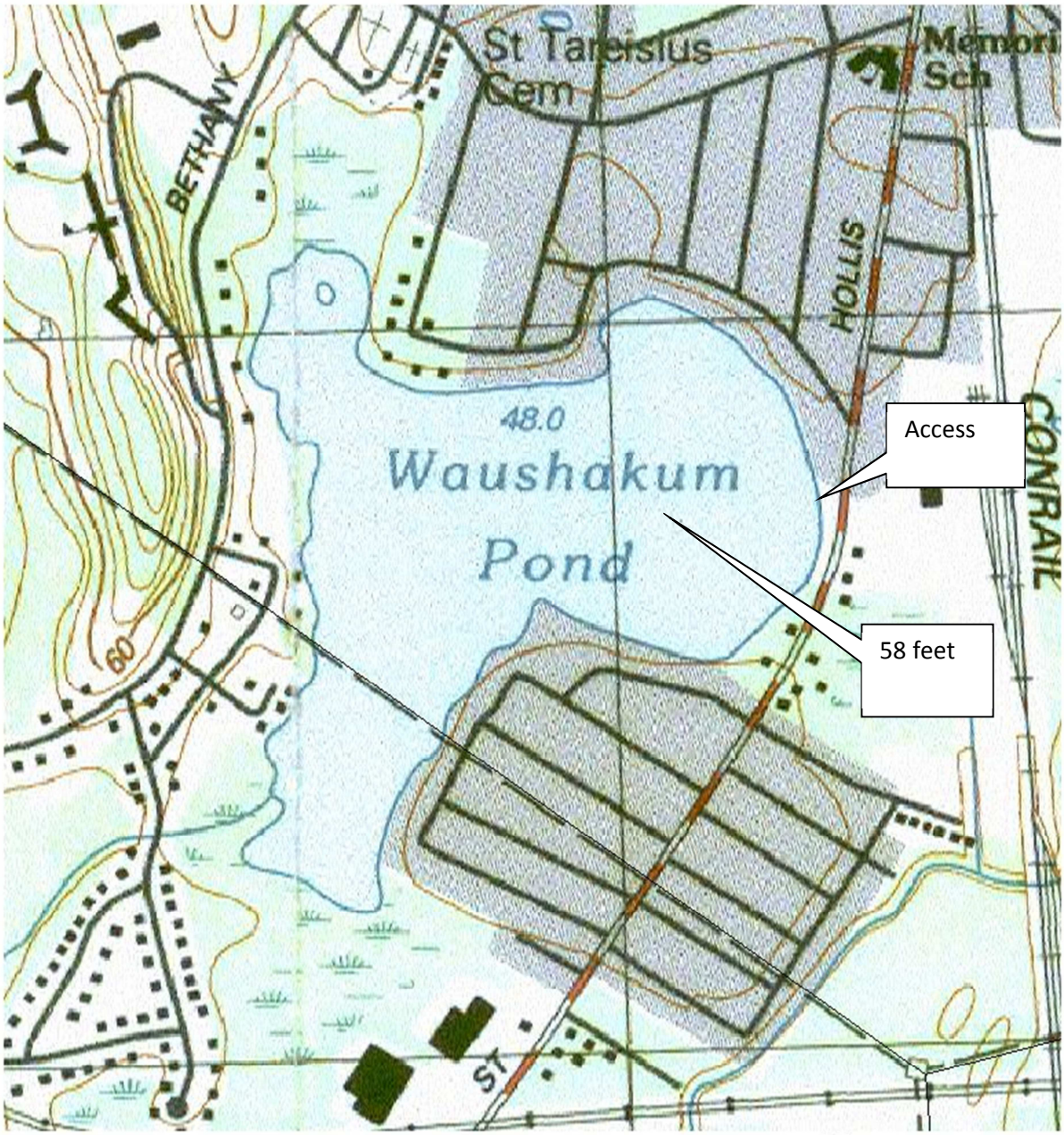
Fort Pond Palis 81046
Lancaster


ROAD
BATTON
87.5
90
Make depth map and mark deep
Mirror L
725
Little Mirror L
Access with 4x4 boat launch, call Devins Development Rec. Department
N
400 0 400 800 Feet
Mirror Lake Palis 81085
Harvard


Canoe carry across beach?
FORT
POND
OLD
70
Little Spectacle Pond
UNION
105.5
Spectacle Pond
55 feet
L A N C A
400 0 400 800 Feet
N
Spectacle Pond Palis 81132
Lancaster



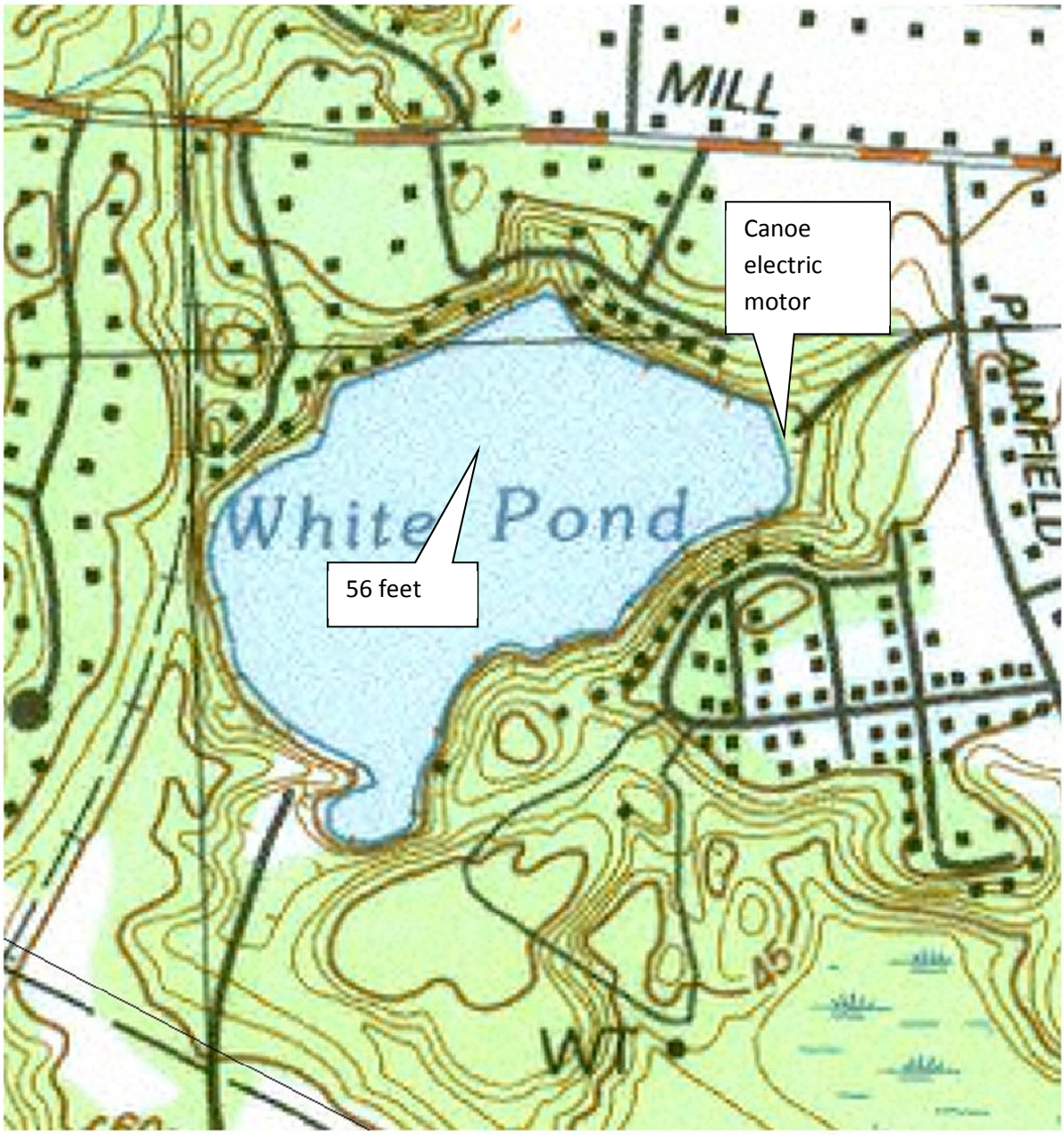
Hopkinton Reservoir Palis 82061
Hopkinton

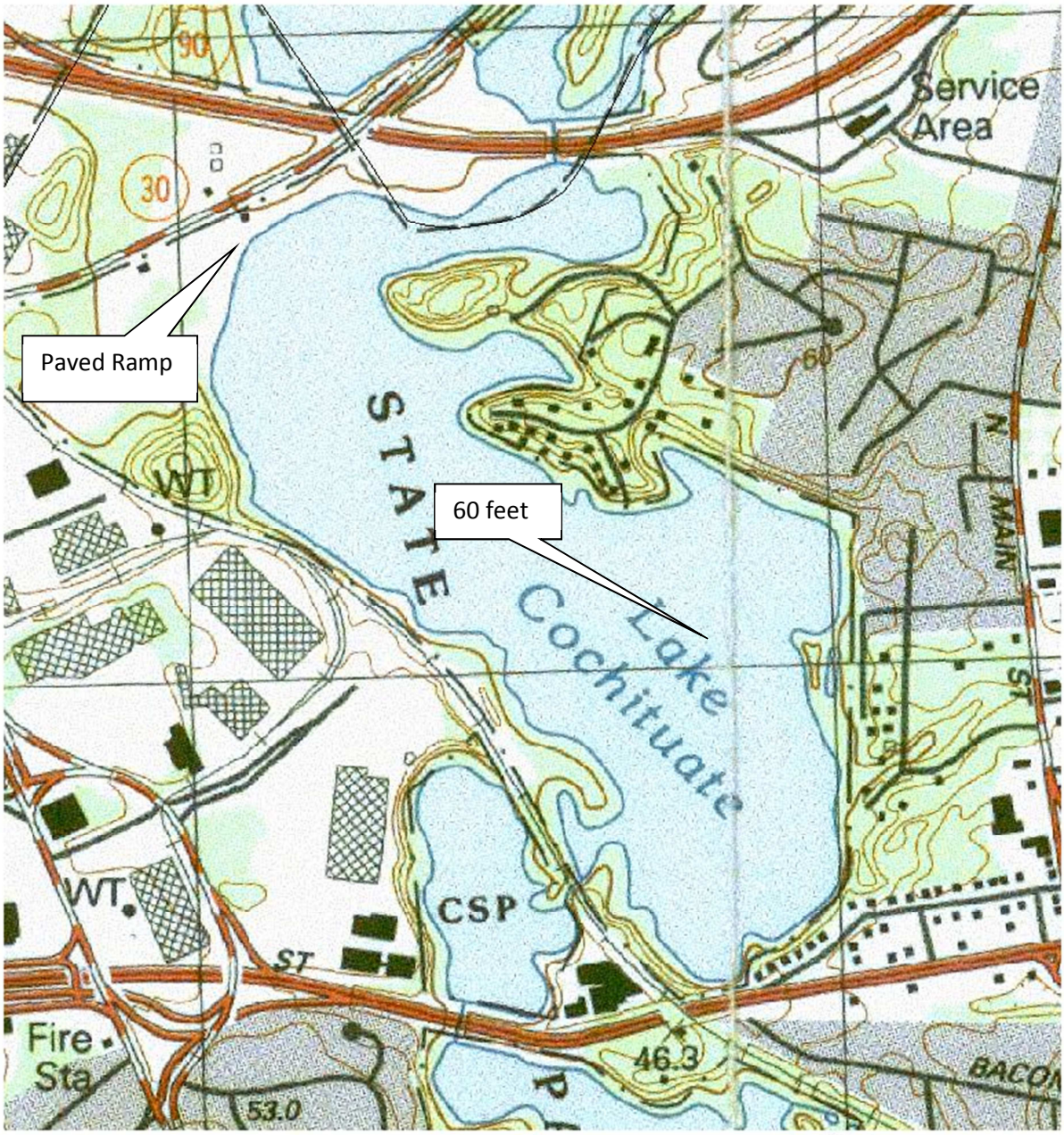


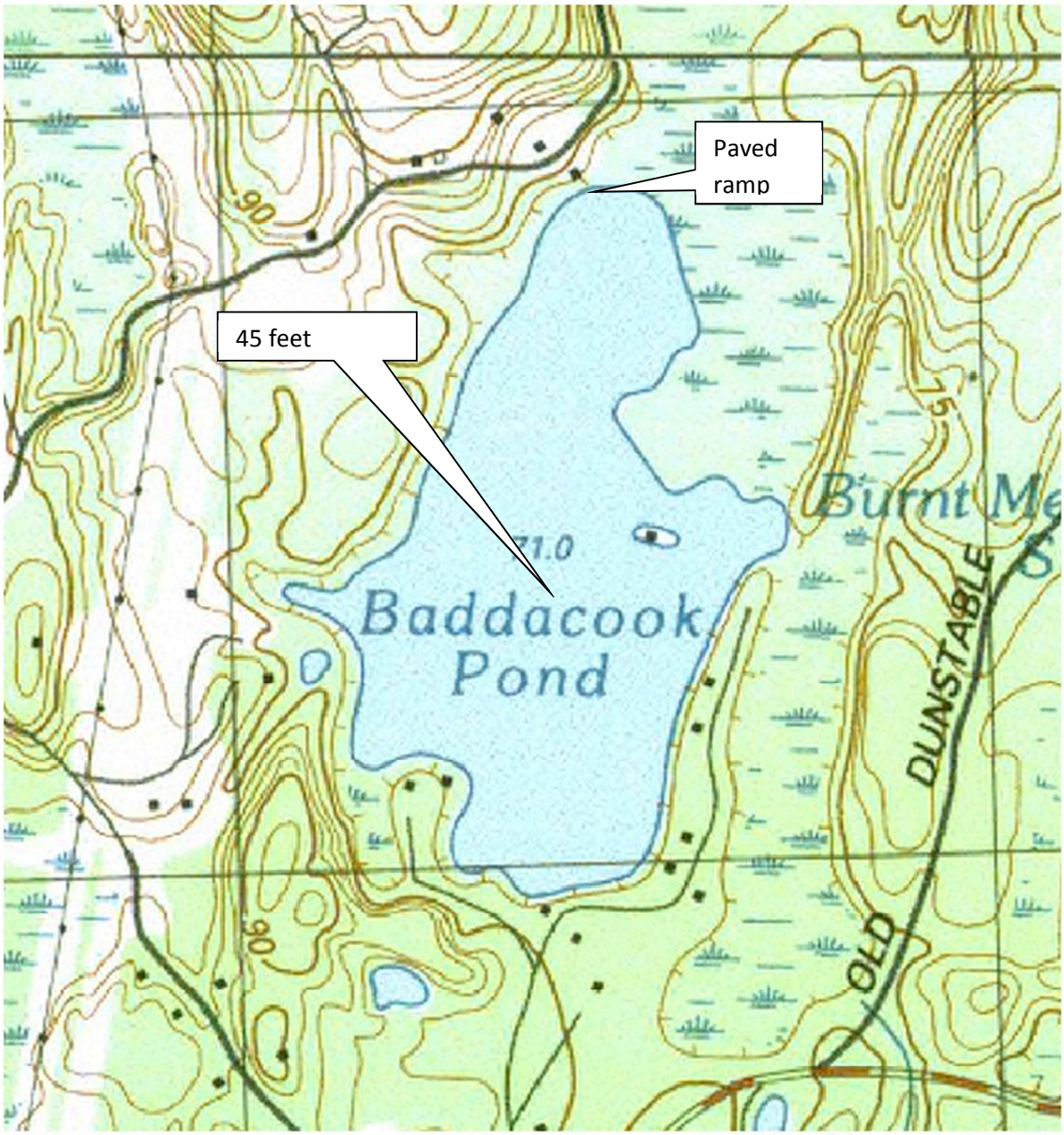
N

400 0 400 800 Feet

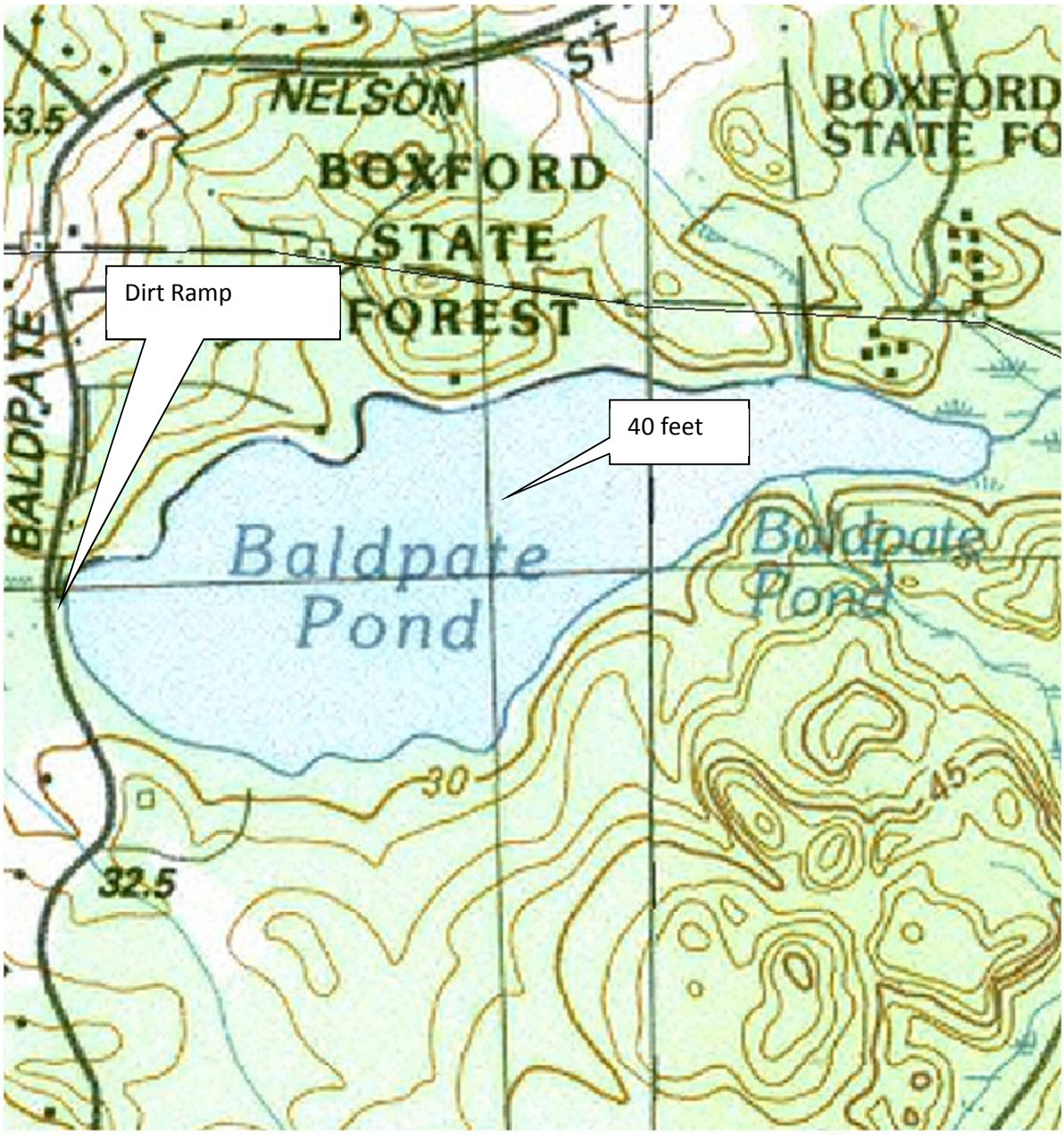
Waushakum Pond Palis 82112
Framingham

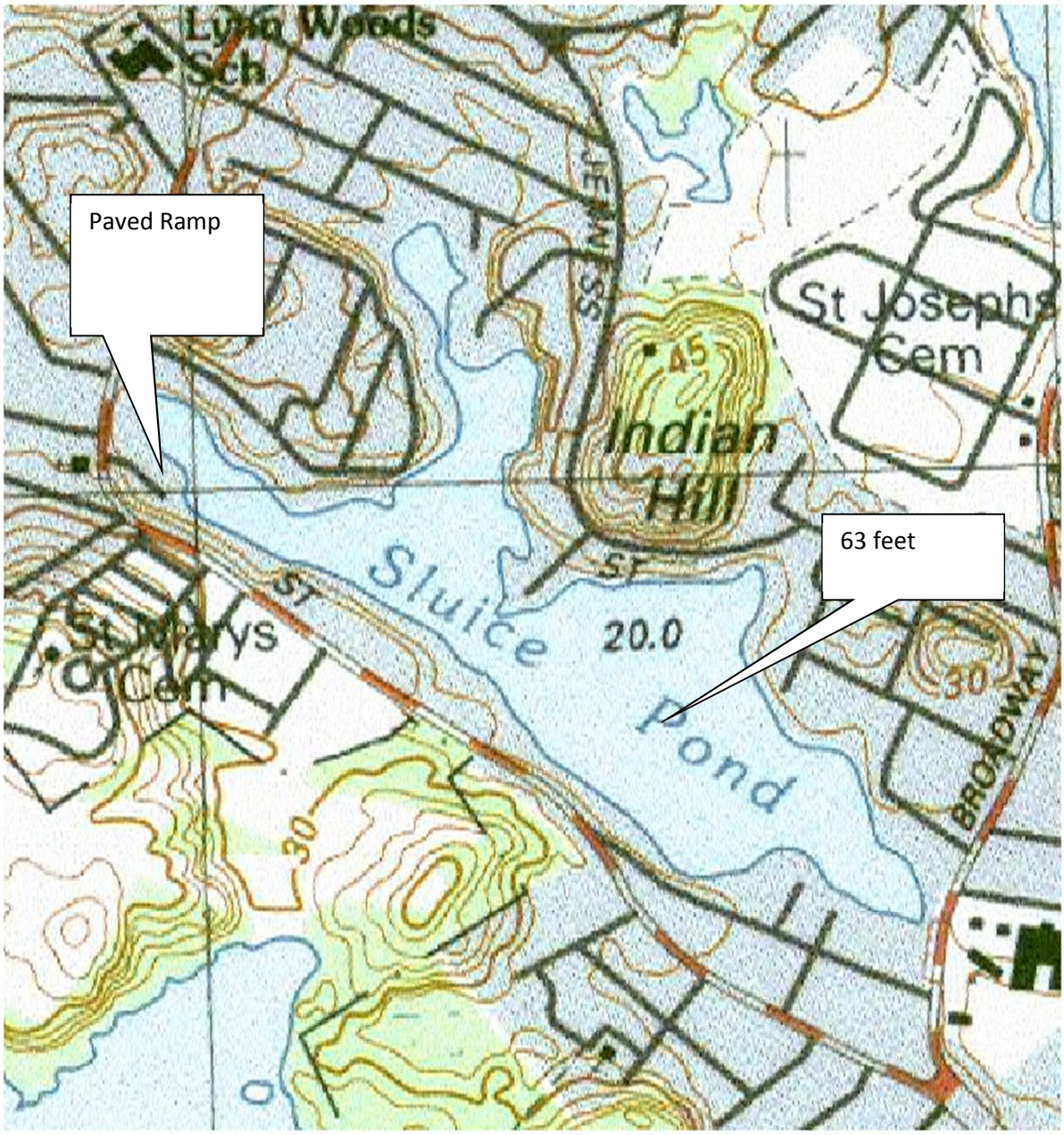

MILL
Canoe
electric
motor
White Pond
56 feet
PLAINFIELD
43
WT
N
400 0 400 800 Feet
White Pond Palis 82118
Concord

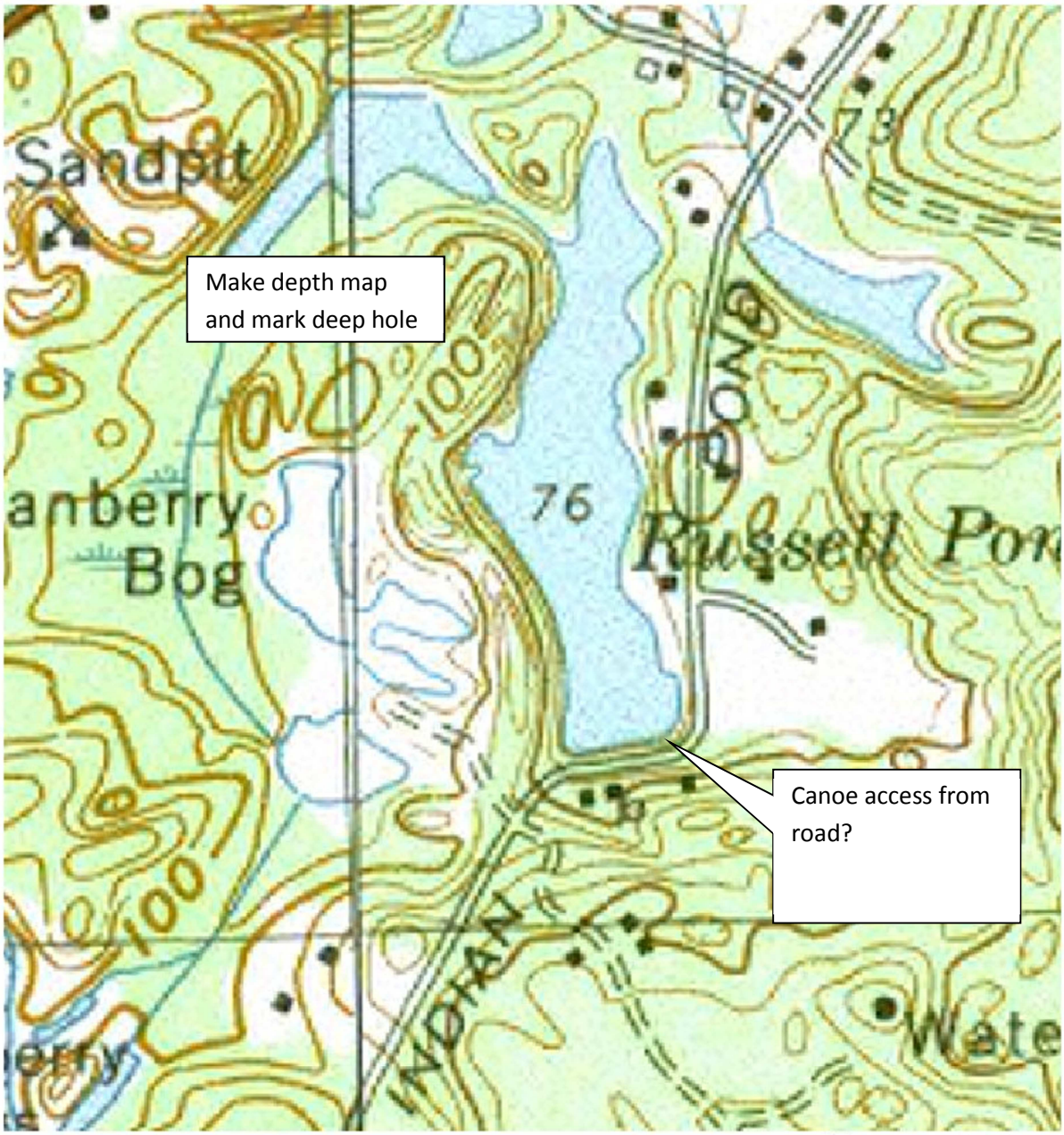

90
30
Service Area
Paved Ramp
60
STATE
60 feet
Lake Cochituate
WT
MAIN
ST
WT
CSP
ST
Fire Sta
46.3
53.0
N
400 0 400 800 Feet
Lake Cochituate Middle Palis 82125
Natick

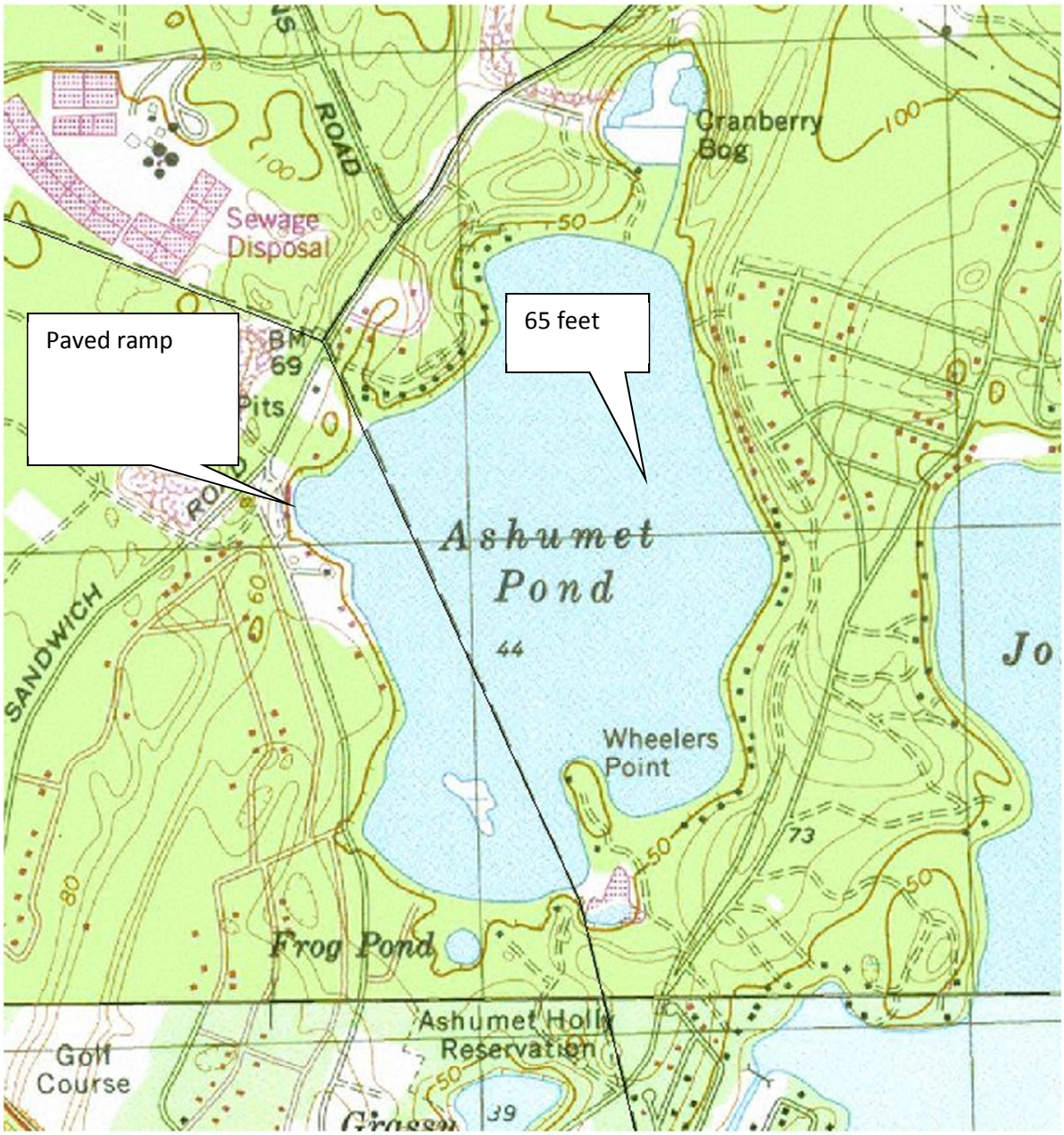


Baddacook Pond Palis 84036
Groton

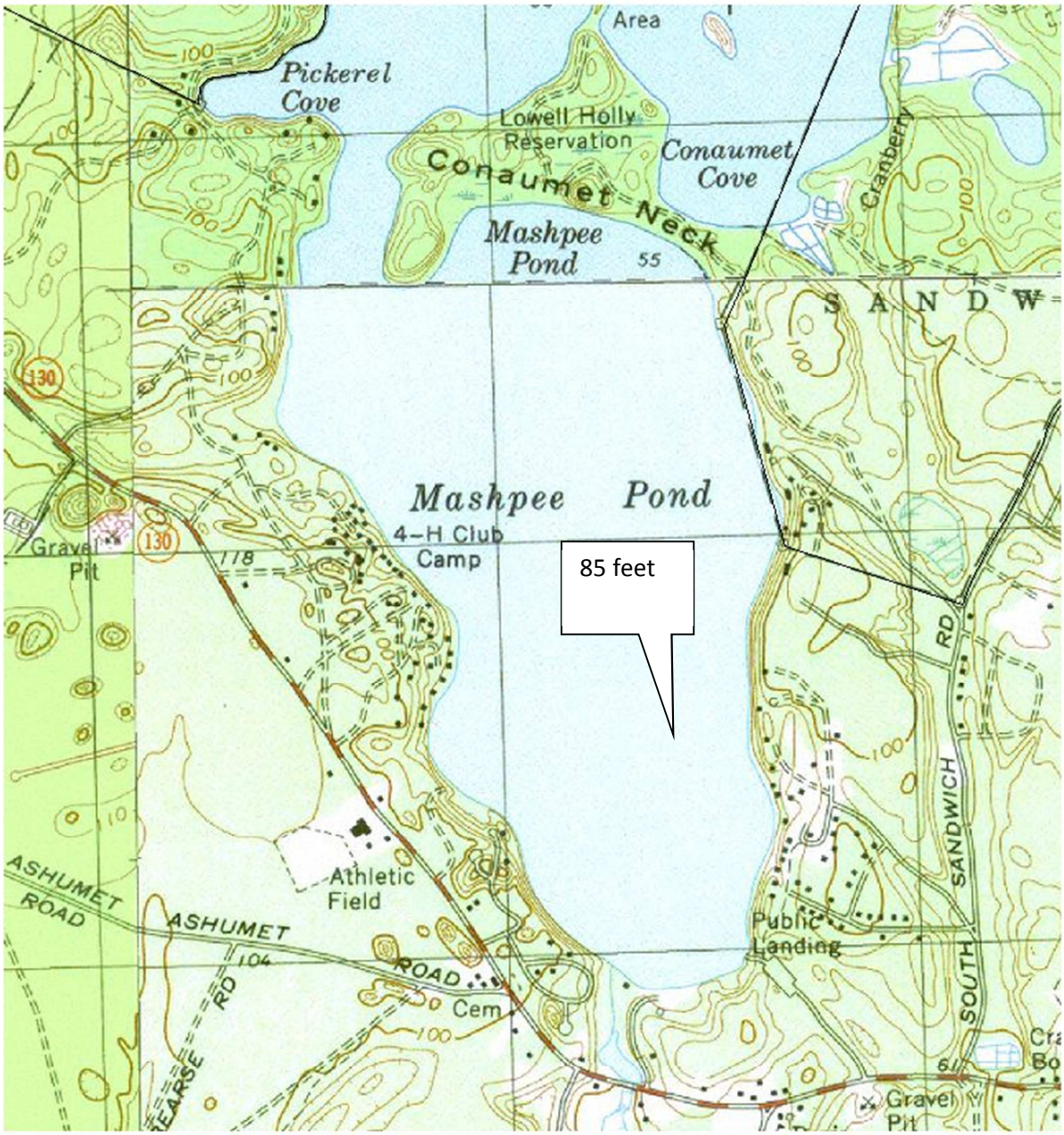

NELSON
ST
BOXFORD
STATE FO
BOXFORD
STATE
FOREST
Dirt Ramp
40 feet
BALDPATE
Baldpate
Pond
Baldpate
Pond
30
45
32.5
N
400 0 400 800 Feet
Baldpate Pond Palis 91001
Boxford


Lynn Woods Sch
Paved Ramp
St Josephs Cem
Indian Hill
63 feet
Sluice Pond
20.0
St Marys Cem
30
BROADWAY
400 0 400 800 Feet
N
Sluice Pond Palis 93071
Lynn


Sandpit
Make depth map
and mark deep hole
100
POND
anberry
Bog
76
Russell Pon
Canoe access from
road?
100
WOHAN
Wate
N
400 0 400 800 Feet
Russell Pond Palis 94133
Kingston


Paved ramp
65 feet
Sewage Disposal
Cranberry Bog
Ashumet Pond
Wheelers Point
Frog Pond
Ashumet Holly Reservation
Golf Course
SANDWICH ROAD
BM 69
Pits
400 0 400 800 Feet
N
Ashumet Pond Palis 96004
Mashpee

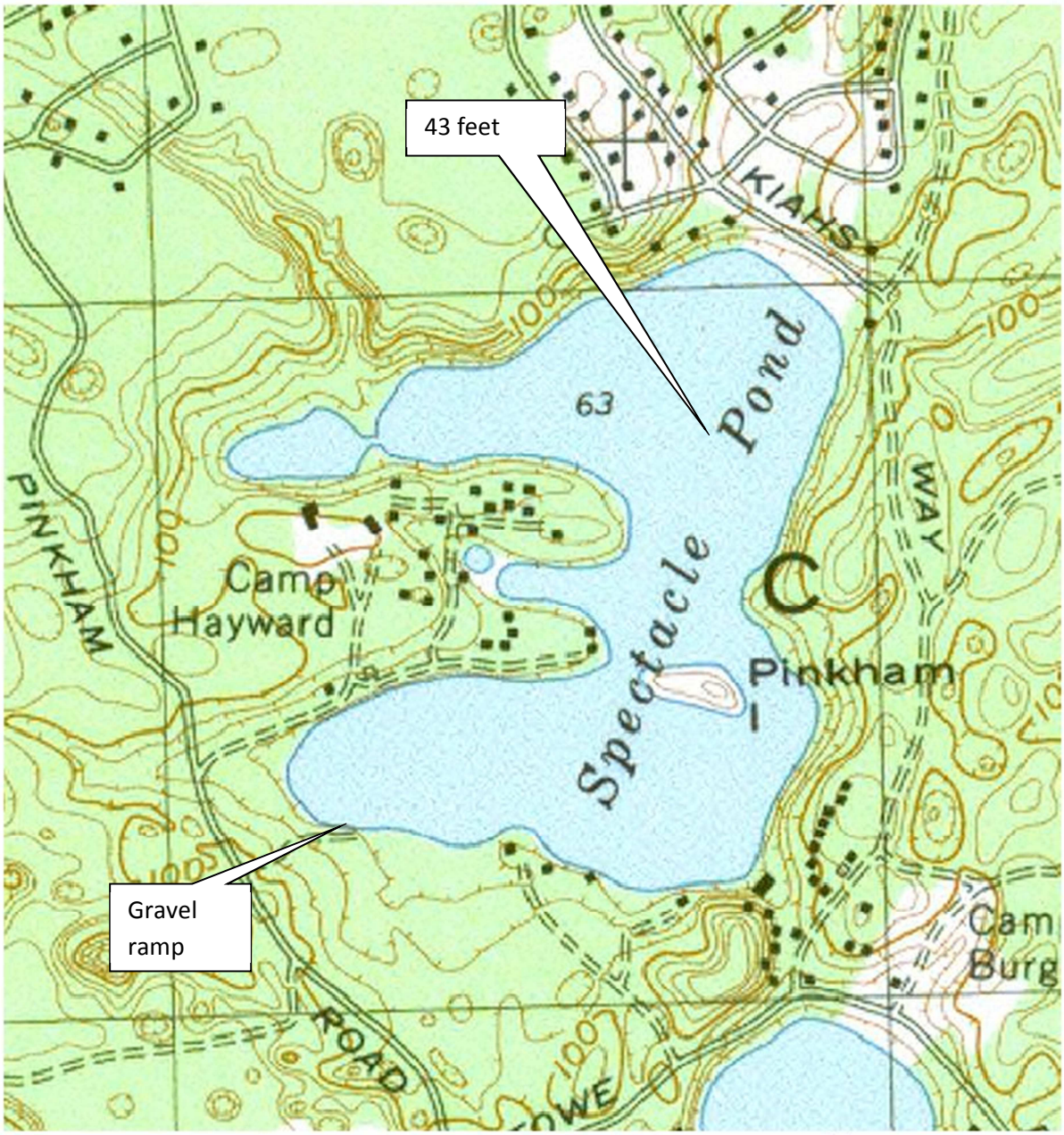

Carry in over
beach access
Flax Pond
24
75 feet
Campgrounds
Picnic Area
Youth Forestry
ROAD
POND
52
50
N
400 0 400 800 Feet
Flax Pond Palis 96091
Brewster

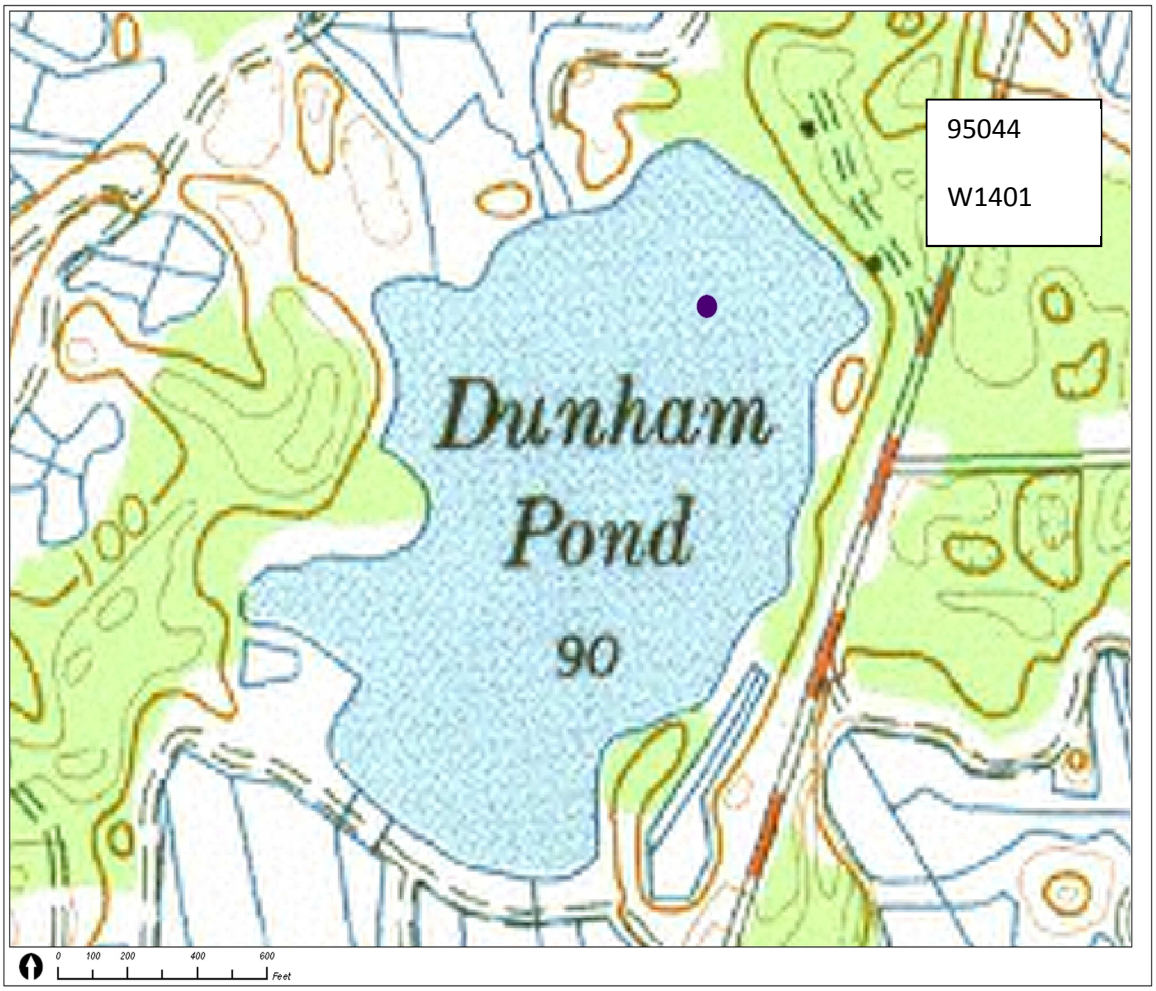

Area
Pickerel Cove
Lowell Holly Reservation
Conaumet Cove
Conaumet Neck
Cranberry
Mashpee Pond
55
S A N D W
130
100
Mashpee Pond
4-H Club Camp
Gravel Pit
130
118
85 feet
RD
SANDWICH
ASHUMET ROAD
ASHUMET ROAD
104
Athletic Field
Public Landing
SOUTH
Cem
HEARSE RD
Gravel Pit
N
400 0 400 800 Feet
Mashpee Pond Palis 96194
Mashpee

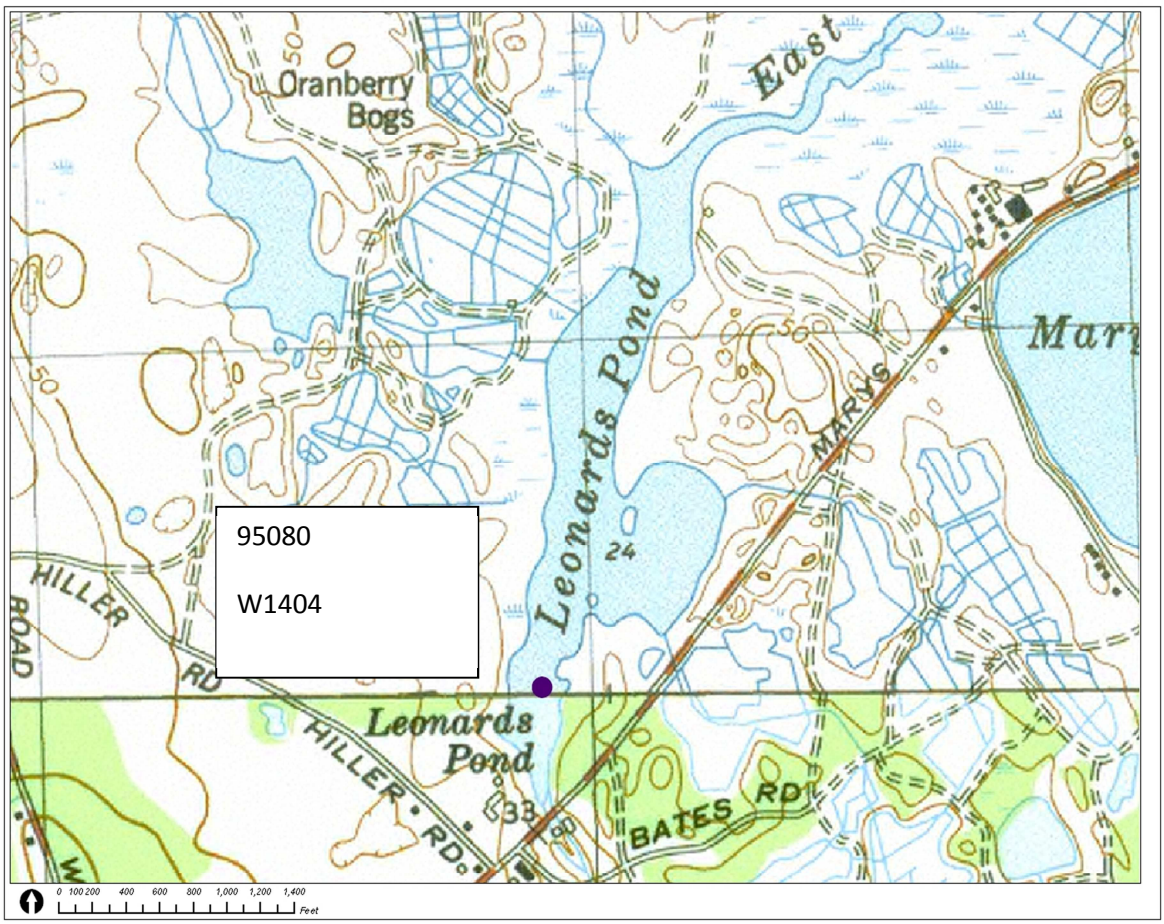
400 0 400 800 Feet

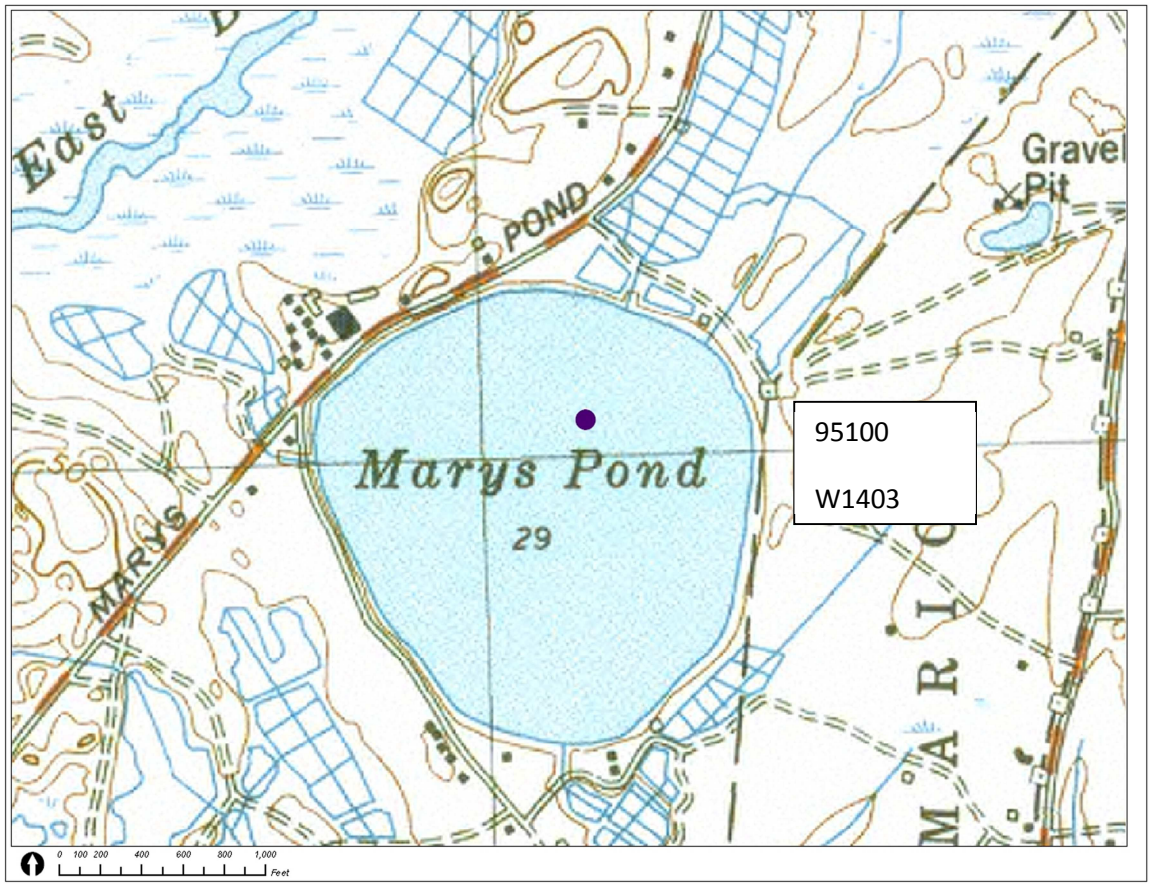
N

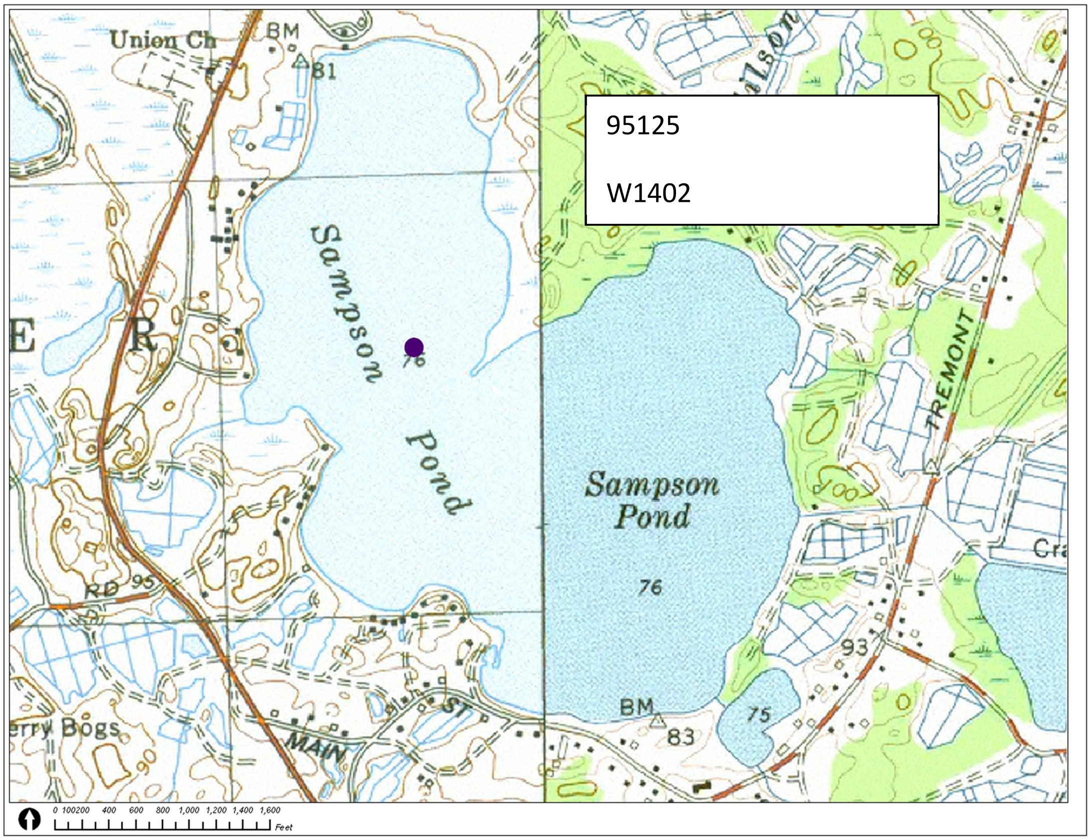
Scargo Lake Palis 96279
Dennis

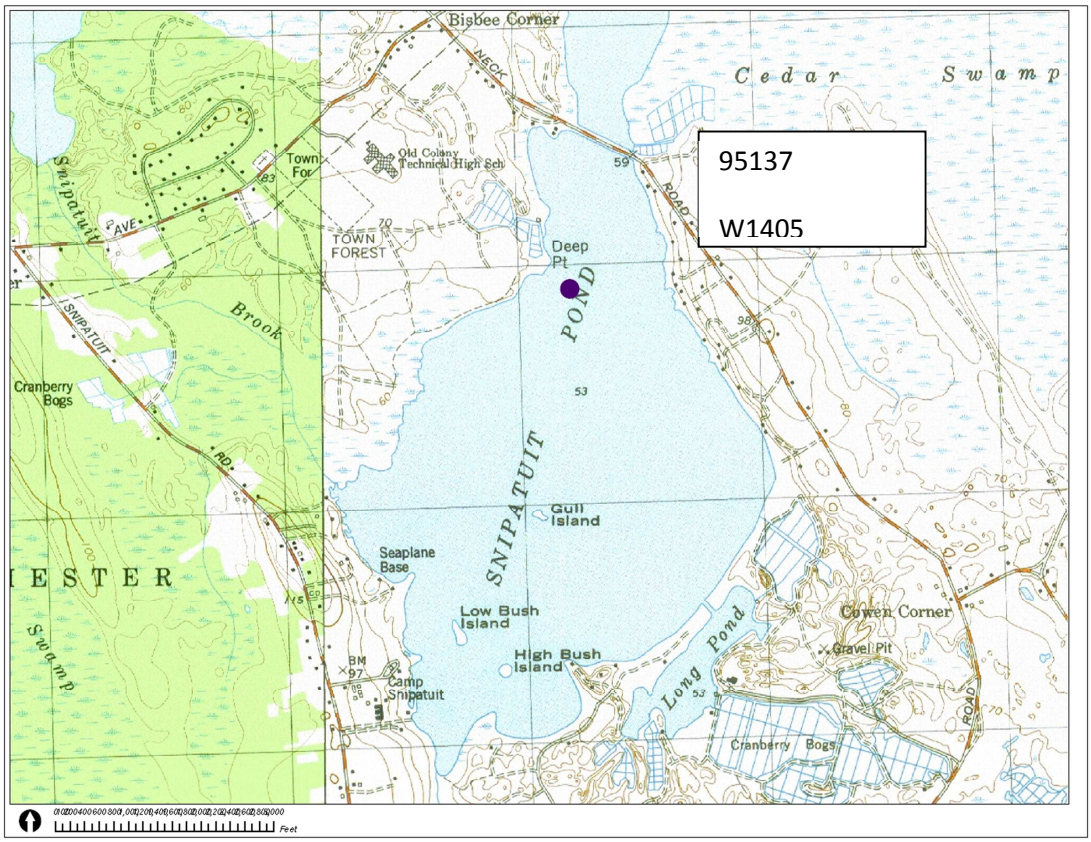

43 feet
KIAHS
100
63
Spectacle Pond
WAY
PINKHAM
Camp
Hayward
Pinkham
Gravel
ramp
Cam
Burg
ROAD
400 0 400 800 Feet
N
Spectacle Pond Palis 96307
Sandwich

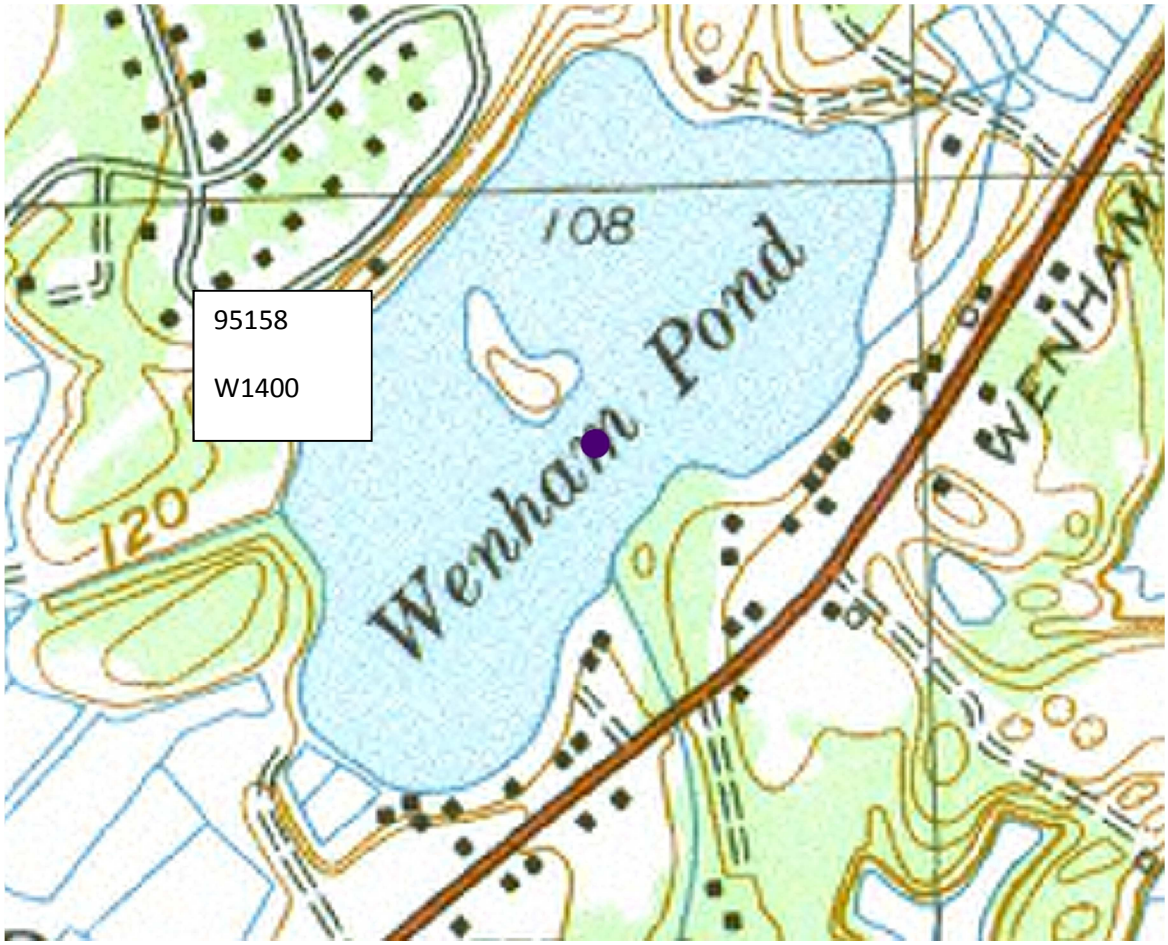

95044
W1401
Dunham
Pond
90
0
100
200
400
600
Feet


Oranberry Bogs
East
Leonards Pond
MARYS
HILLER ROAD
RD
HILLER RD.
Leonards Pond
BATES RD
95080
W1404
0 100 200 400 600 800 1,000 1,200 1,400
Feet


East
POND
Gravel
Pit
Marys Pond
29
95100
W1403
MARYS
0 100 200 400 600 800 1,000
Feet


95125
W1402
Union Ch
BM
81
Sampson Pond
76
Sampson
Pond
76
RD 95
MAIN ST
BM
83
75
93
TREMONT
Cra
erry Bogs
0 100200 400 600 800 1,000 1,200 1,400 1,600
Feet


Bisbee Corner
NECK
Cedar Swamp
95137
W1405
Old Colony Technical High Sch
Town For
TOWN FOREST
Deep Pt
POND
ROAD
Snipatuit AVE
SNIPATUIT
Brook
Cranberry Bogs
RD
SNIPATUIT
Gull Island
Seaplane Base
Low Bush Island
High Bush Island
BM 97
Camp Snipatuit
Long Pond
Cowen Corner
Gravel Pit
Cranberry Bogs
ROAD
Swamp
Feet


95158
W1400
108
120
Wenham Pond
WENHAM