



ENGINEERING,
INC.

ENGINEERS
SURVEYORS

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1168

VIA FAX: 617-918-0560
& CERTIFIED MAIL: 7006 3450 0003 8971 3879

March 28, 2007

U.S. Environmental Protection Agency Region I
Water Technical Unit
P.O. Box 8127
Boston, MA 02114
Attn: Ann Herrick

**RE: Town of Wareham
NPDES Phase II Small MS4
2005-2006 General Permit Annual Report
G.A.F. Job No. 5916**

Dear Ms Herrick:

On behalf of the Town of Wareham, enclosed please find a completed 2005-2006 annual report for EPA NPDES permit **MAR041168**, MADEP Transmittal Number **W-045147**. This report is provided in a format outlined by EPA obtained from the EPA Region 1 website. John D. Foster, Interim Town Administrator, has signed this annual report and acknowledges the terms of the required certification in accordance with Part VI.G. of the Permit. We have also submitted a completed annual report as well as a copy of this letter to Fred Civian, Phase II Stormwater Coordinator at the Massachusetts Department of Environmental Protection, Division of Watershed Management, 1 Winter Street, 5th Floor, Boston, MA 02108.

Sincerely,
G.A.F. Engineering, Inc.


William F. Madden, P.E.

CC: Fred Civian-Division of Watershed Management-DEP, Boston
Mark Gifford-Town of Wareham Director of Municipal Maintenance
John D. Foster-Town of Wareham Interim Town Administrator

266 MAIN ST.
WAREHAM, MA
02571
TEL 508.295.6600
FAX 508.295.6634

gaf@gaf-eng.com

Municipality/Organization: Town of Wareham

EPA NPDES Permit Number: MAR041168

MaDEP Transmittal Number: W- 045147

**Annual Report Number
& Reporting Period:** No. 3: March 2005-March 2006

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John D. Foster **Title:** Interim Town Administrator

Telephone #: 508.291-3100 ext.3110 **Email:** jfoster@wareham.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: John D. Foster

Title: Interim Town Administrator

Date: 3/28/2007

Part II. Self-Assessment

The Town of Wareham has completed the required self assessment and has determined that our Municipality is in compliance with the provisions of the permit conditions, with the exception of the following:

1. **BMP 1-2:** The development of brochures is incomplete. The Town has inquired with the SuAsCo organization in assisting in the development of brochures and other educational material.
2. **BMP 1-3:** The annual meeting on the Phase II Stormwater permit requirements was not held and community cleanups have not been achieved. The Town will actively move forward in completing these tasks.
3. **BMP 2-1:** The brochures in 1-2 are incomplete and complaint logs have not been created. The Town is working with the departments to implement this BMP.
4. **BMP 2-2:** The Town has not created a Stormwater Committee through the Selectmen's Office. The Town will actively move forward in creating the Stormwater Committee.
5. **BMP 2-3:** The Selectmen have not held an annual Phase II Stormwater hearing or heard the presentation by the Stormwater Committee on the Phase II Permit Requirements. The Town will actively move forward to complete these tasks.
6. **BMP 2-4:** The Town has not had the catch basin stenciling performed.
7. **BMP 2-5:** The Town has not had the stream clean-ups performed.
8. **BMP 3-2:** The Town has completed a review of the local by-laws to outline changes needed to prohibit illicit connections however the findings report has not been prepared. The Town will complete the report and present relevant changes at town meetings for approval.

9. **BMP 3-3:** The Town drainage mapping is ongoing and catchment areas have not been mapped. The Town will actively move forward in the completion of these tasks.
10. **BMP 3-4:** The Town has not completed the quantification of illicit discharges, Phase II Stormwater Permit associated ordinances have not been adopted, and a household hazard collection program has not been implemented. The Town will actively move forward in the completion of these tasks.
11. **BMP 3-5:** The Town has not completed the quantification of illicit discharges, Phase II Stormwater Permit associated ordinances have not been adopted, and a household hazard collection program has not been implemented. The Town will actively move forward in the completion of these tasks.
12. **BMP 3-7:** Informational fliers have not been created and distributed to the public and complaint logs have not been created and maintained. The Town will work with the SuAsCo organization to develop appropriate fliers and distribute them to the public.
13. **BMP's 4-1, 4-2, 4-3:** Review of the local by-laws and subdivision rules and regulations as they pertain to Construction Site Runoff Control have been completed by the relevant departments. The findings reports have not been completed. The Town departments will complete the findings reports and will present the necessary bylaw/regulation changes at town meetings for approval. The site inspection procedures have not been enacted, but the town will move forward in achieving these tasks. The Town hopes to improve water clarity and reduce the sedimentation of water bodies through the implementation of these measures.
14. **BMP's 5-1, 5-2, 5-3:** Review of the local by-laws and subdivision rules and regulations as they pertain to Post Construction Runoff Control have been completed by the relevant departments. The findings reports have not been completed. The Town departments will complete the findings reports and will present the necessary bylaw/regulation changes at town

meetings for approval. The Town hopes to reduce the percentage of new impervious area and improve water clarity through the implementation of these measures.

15. **BMP 6-1:** The Town has not completed a policy guide on vehicle maintenance, washing, fueling and salt storage. The Town will actively move forward in completing the guide and will distribute to all relevant municipal employees.
16. **BMP 6-2:** The Town has not completed a training manual outlining stormwater pollution prevention policies, and therefore the subsequent training has not been performed as well. A recycle program has not been implemented and pesticide reduction has not been performed. The Town will actively move forward in completing the training manual and distributed to all relevant municipal employees.

Part III. Summary of Information Collected and Analyzed

The Town has provided Stormwater Maps as prepared by the Buzzards Bay National Estuary Program. The maps are numbered one through eight and indicate the treated and untreated catch basins as well as discharge pipes within the Town of Wareham. These maps have been attached to this annual report.

Part III. Summary of Minimum Control Measures

Please Note **N/A** refers to BMP's not scheduled for implementation in the 05'-06' reporting period

1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
1-1	Form Partnerships	Town Administrator	Partnerships Developed	Although the Town has formed a partnership with the Buzzards Bay Project in Year 1, the Town is still actively looking to form partnerships. The SuAsCo organization was contacted to inquire about their services. No partnerships were formed in this reporting period.	Continue to petition appropriate entities for partnership to assist in performing outreach services.
1-2	Educational Material	Dir. of Municipal Maintenance	Educational Material Developed	The development of brochures and educational material is incomplete.	Develop and distribute informational brochures.
1-3	Annual Public Hearing	Town Administrator	Y1. Meetings Held Y2. Radio ads for participation Y3. Community participation in community cleanups	The annual meeting on the Phase II Stormwater Permit requirements was not held, and community participation in community cleanups has not been achieved.	Hold annual public hearing, solicit input from the general public and achieve community participation in cleanups as well as the establishment of citizen watch groups

1a. Additions

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
2-1	Encourage Citizen Action	Dir. Of Municipal Maintenance	Brochure and flyers prepared in step 1-2 invite public participation in discharge mapping and detection	Brochures have not been completed to distribute and complaint logs have not been started.	Enlist the services of SuAsCo to assist in citizen outreach and brochure creation.
2-2	Establish Stormwater Committee	Town Administrator	Committee Created	A Stormwater Committee has not been established. A meeting with all appropriate departments was held to overview the permit requirements.	Create a SWC of both town personnel and local citizens and have the SWC meet twice per year
2-3	Selectmen's Meeting	Town Administrator	Meeting Held and report from SWC is heard	The Selectman have not had an annual hearing on the Phase II Permit Requirements	The SWC to present report to Town Selectmen at the annual meeting.
2-4	Storm Drain Stenciling	Dir. Of Municipal Maintenance	Record No. of C.B.'s Stenciled	No CB's have been stenciled	SWC to enlist local groups to begin & continue stenciling storm drains.
2-5	Stream Cleanup	Dir. Of Municipal Maintenance	Report on Cleanup Activities	No stream clean-ups have been performed	SWC to enlist local groups to assist in stream cleanup events.

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
3-1	Discharge Identification	Dir. Of Municipal Maintenance	Discharges Identified	Mapping completed in Permit Year 1.	Provide mapping of new discharge outfalls.
3-2	Prohibition/Enforcement	Board of Health & Conservation Commission	Review Existing Bylaws, Report Prepared, By-Laws Amended	By-law reviews are complete, reports have not been prepared and the town by-laws have not been amended	Prepare report on necessary By-law changes and implement bylaw changes
3-3	Drainage Network Mapping	Town Planner	Map Produced	Drainage structures have been mapped as shown on enclosed maps, catchment area mapping is ongoing, household	Complete mapping of pipe network and contributing catchment areas
3-4	Illicit Discharge Identification	Dir. Of Municipal Maintenance	Y1-Illicit Discharges Quantified, Y2-Ordinances adopted re: illicit discharges, Y3-Elimination of illicit discharges ongoing & household hazard collection program in place, Y4-Elimination of most illicit discharges complete	Illicit discharges have not been quantified, Phase II Stormwater Permit associated ordinances have not been adopted, illicit discharge elimination is ongoing, household hazard collection program has not been implemented	Quantify illicit discharges, adopt ordinances, eliminate illicit discharges, implement household hazard collection program
3-5	Illicit Discharge Enforcement	Dir. Of Municipal Maintenance	Y1-Illicit Discharges Quantified, Y2-Ordinances adopted re: illicit discharges, Y3-Elimination of illicit discharges ongoing & household hazard collection program in place, Y4-Elimination of most illicit discharges complete	Illicit discharges have not been quantified, Phase II Stormwater Permit associated ordinances have not been adopted, illicit discharge elimination is ongoing, household hazard collection program has not been implemented	Quantify illicit discharges, adopt ordinances, eliminate illicit discharges, implement household hazard collection program
3-6	DPW Training	Dir. Of Municipal Maintenance	Training Provided	DPW employees attended Stormwater Seminars.	Continue Stormwater Training.
3-7	Public Information	Dir. Of Municipal Maintenance	Complaint File Maintenance	Information flyers are incomplete. Complaint Logs are incomplete.	Prepare & distribute flyers, maintain a complaint log, investigate complaints when necessary

3a. Additions

4. Construction Site Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
4-1	Conservation Commission By-Law	Conservation Commission Agent	1. Review By-law, prepare findings report on necessary changes / amendments to bylaw, revise bylaw to incorporate necessary revisions 2. Institute site inspection procedures, 3. realize improved water clarity, 4. realize increased number of aquatic organisms in water bodies.	Review of by-laws complete, No findings report prepared, no Phase II Stormwater Requirement amendments to existing Bylaw enacted, no site inspection procedures enacted	Prepare findings report, present any necessary amendments to town meeting, institute any necessary bylaw revisions and site inspection procedures indicated in findings report, realize reduced sedimentation of water bodies, realize increased number of aquatic organisms
4-2	Subdivision Rules and Regulations	Town Planner	1. Review regulations, prepare findings report, rules & regulations revised per findings, 2. Institute site inspection procedures, 3. Realize improved water clarity, 4. Realize increased number of aquatic organisms	Review of regulations complete, No findings report prepared, No Phase II Stormwater Requirement amendments to existing regulations enacted, no site inspection procedures enacted	Prepare findings report, present necessary revisions to town meeting, institute elements of findings report in subdiv. Rules and regs, institute site inspection procedures, realize improved water clarity, realize increased number of aquatic organisms
4-3	Zoning Review	Town Planner	1. Review By-law, prepare findings report on necessary changes / amendments to bylaw, revise bylaw to incorporate necessary revisions 2. Institute site inspection procedures, 3. realize improved water clarity, 4. realize increased number of aquatic organisms in water bodies.	Review of by-laws complete, No findings report prepared, No Phase II Stormwater Requirement amendments to existing Bylaw enacted, no site inspection procedures enacted	Prepare findings report, present necessary revisions to town meeting, institute elements of findings report in town bylaws, institute site inspection procedures, realize improved water clarity, realize increased number of aquatic organisms

4a. Additions

5. Post Construction Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
5-1	Conservation Commission By-Laws	Conservation Commission Agent	By-Law Amended	Review of by-laws complete, no additional action taken	Prepare findings report and present any necessary amendments to town meeting.
5-2	Planning Board Rules	Town Planner	Rules and Regulations Revised	Review of regulations complete, no additional action taken.	Prepare findings report and present any necessary amendments to town meeting.
5-3	Zoning By-Laws	Town Planner	By-Law Amended	Review of by-laws complete, no additional action taken.	Prepare findings report and present any necessary amendments to town meeting.

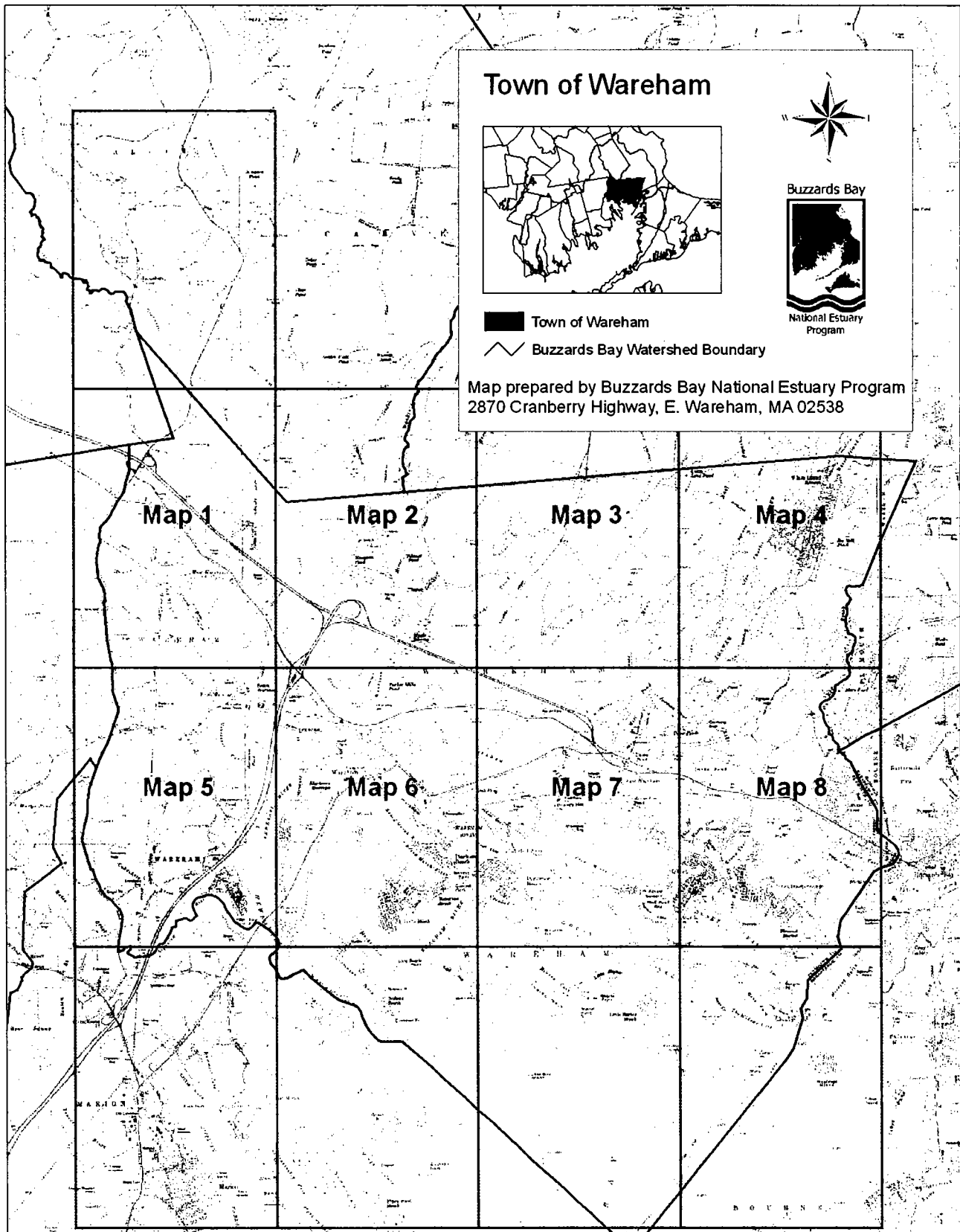
5a. Additions

6. Municipal Good House Keeping

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 4
6-1	D.P.W. Policy Guide	Dir. Of Municipal Maintenance	Policy Guide Developed	Policy guide not complete.	Complete policy guide on vehicle maintenance, washing, fueling and salt storage.
6-2	D.P.W. Annual Training	Dir. Of Municipal Maintenance	Training Manual Prepared, Employee Training completed, recycling program fully implemented, pesticide reduction implemented	Manual not complete, Training not performed, recycle program not implemented, pesticide reduction not performed.	Complete training manual, perform employee training, implement recycling program, implement pesticide reduction, reduction in discharge of floatables
6-3	D.P.W. Maintenance Schedule	Dir. Of Municipal Maintenance	Maintenance Schedule Developed	Implementation of on-going maintenance schedule.	Continue to develop and follow maintenance schedule.
6-4	D.P.W. Permit Filing	Dir. Of Municipal Maintenance	Permits on File	On-going filing of all Stormwater related projects.	Continue permit filing.

6a. Additions

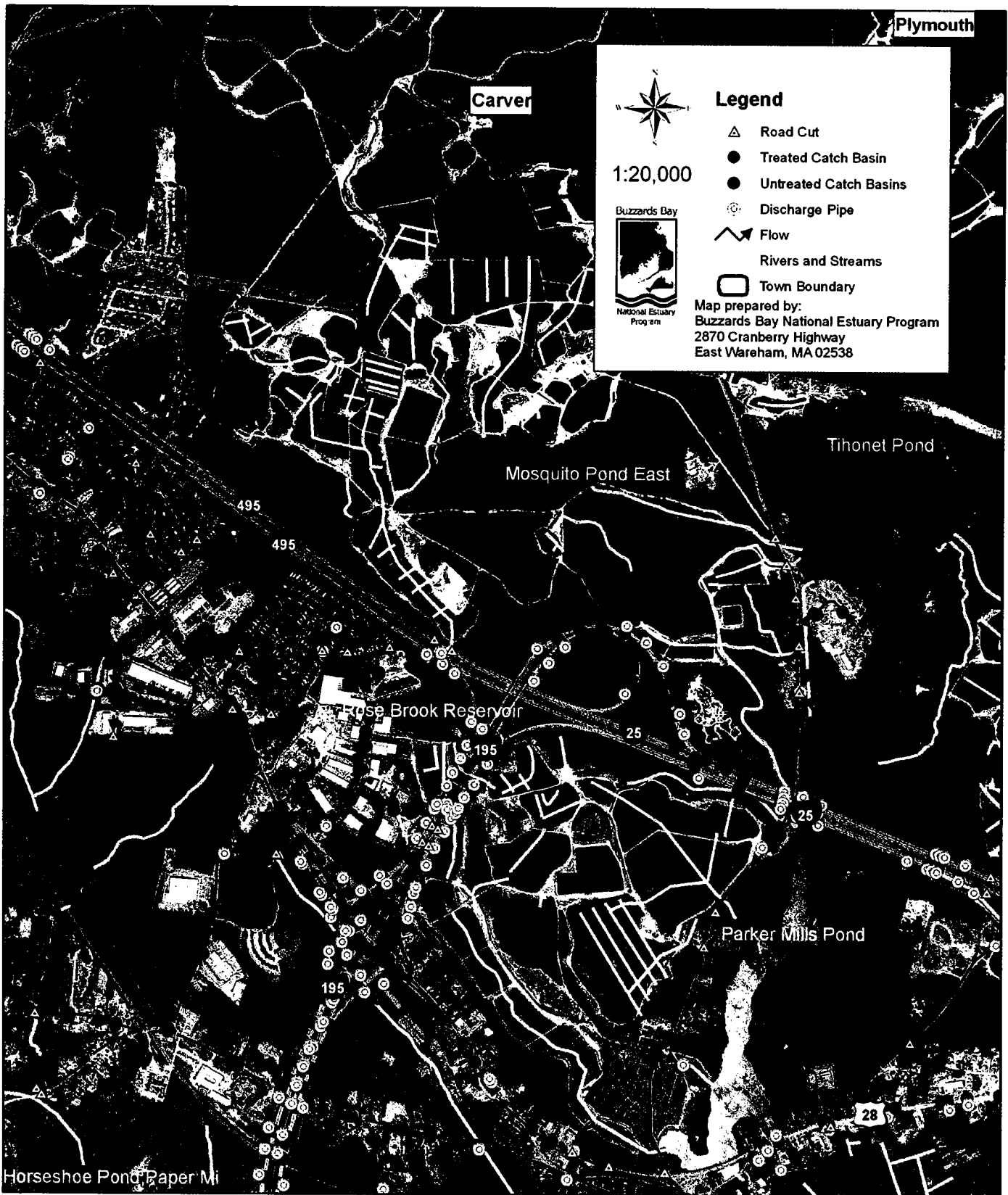
Key for Wareham Storm Drain Maps



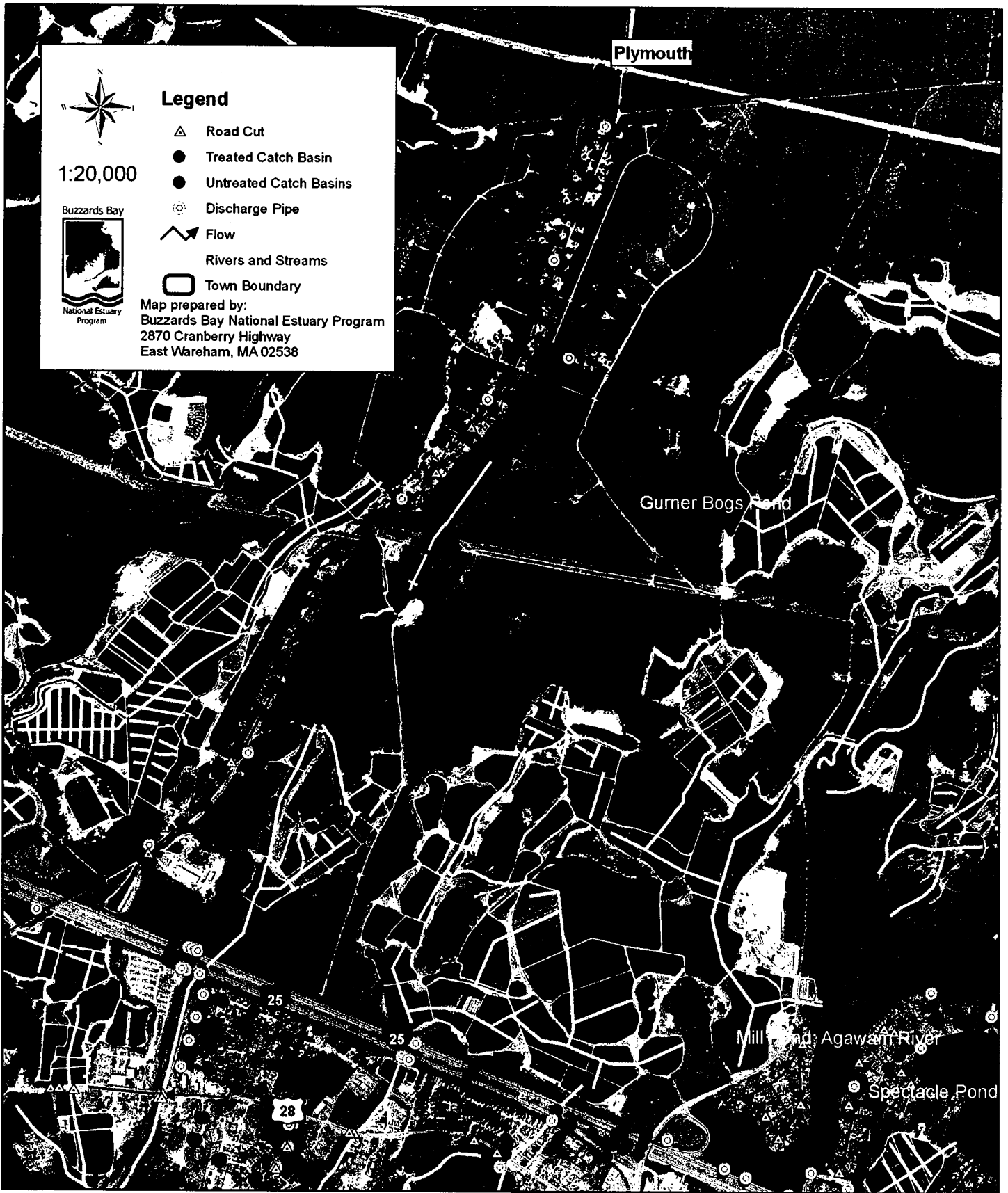
Wareham: Map 1



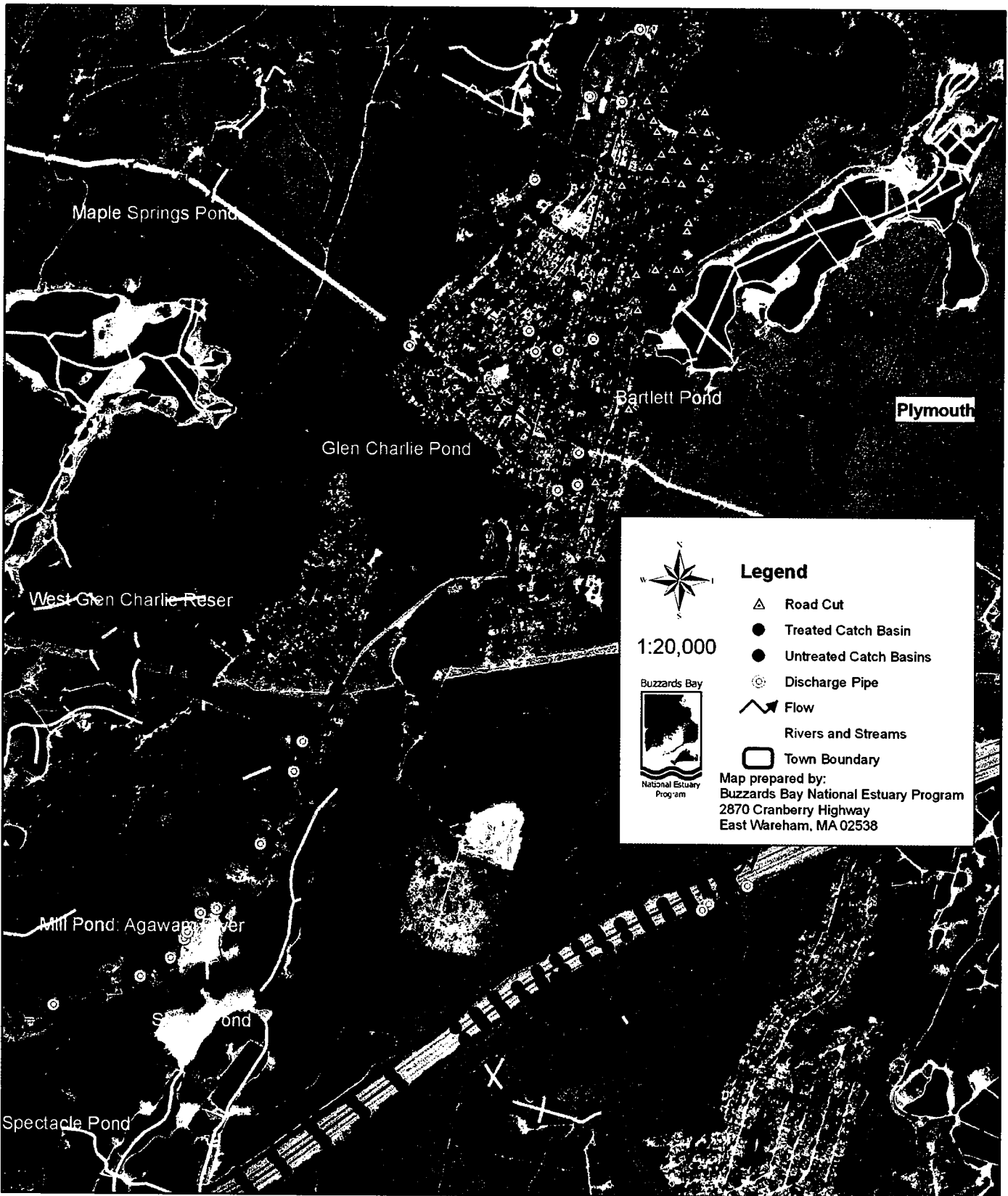
Wareham: Map 2



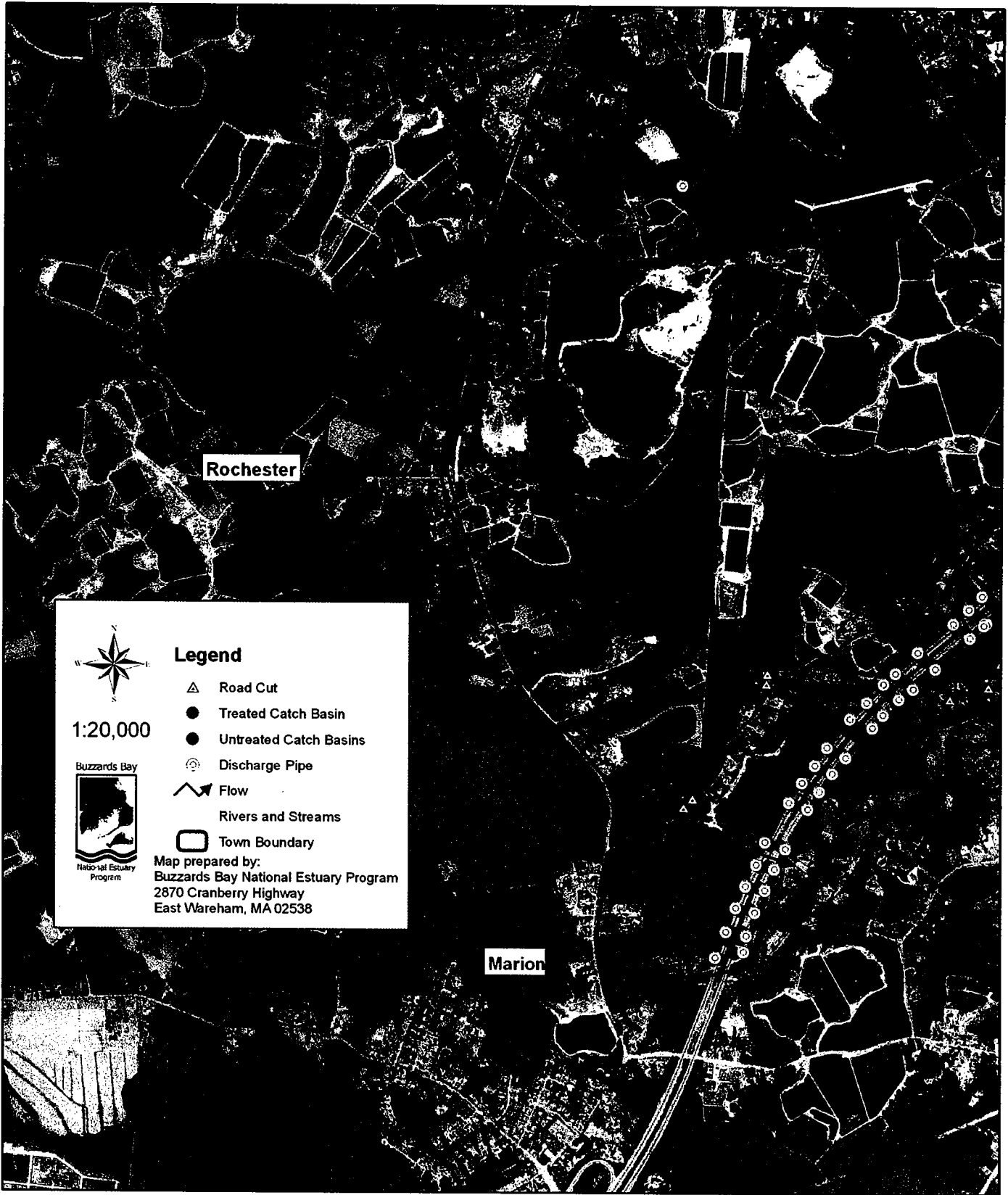
Wareham: Map 3



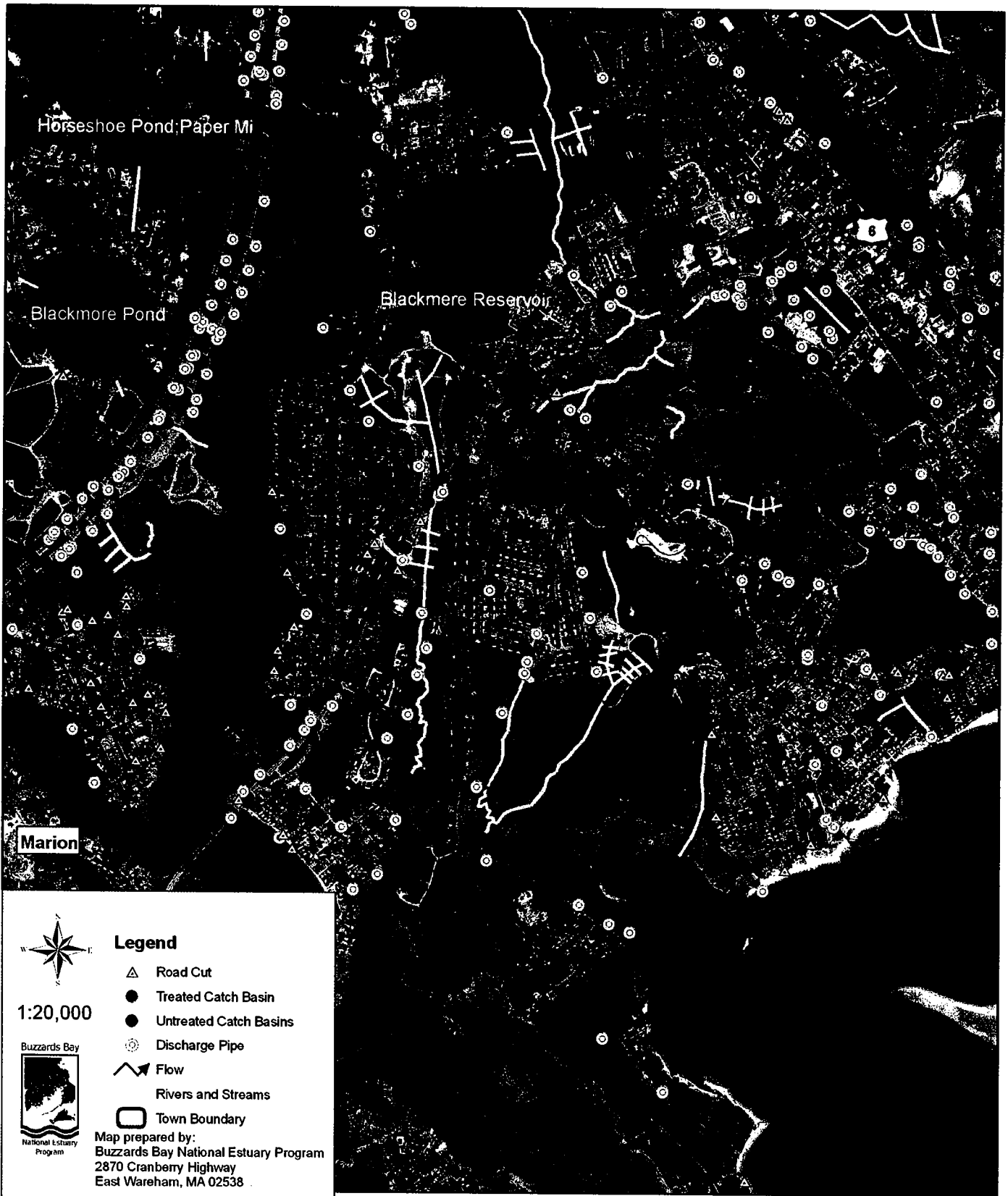
Wareham: Map 4



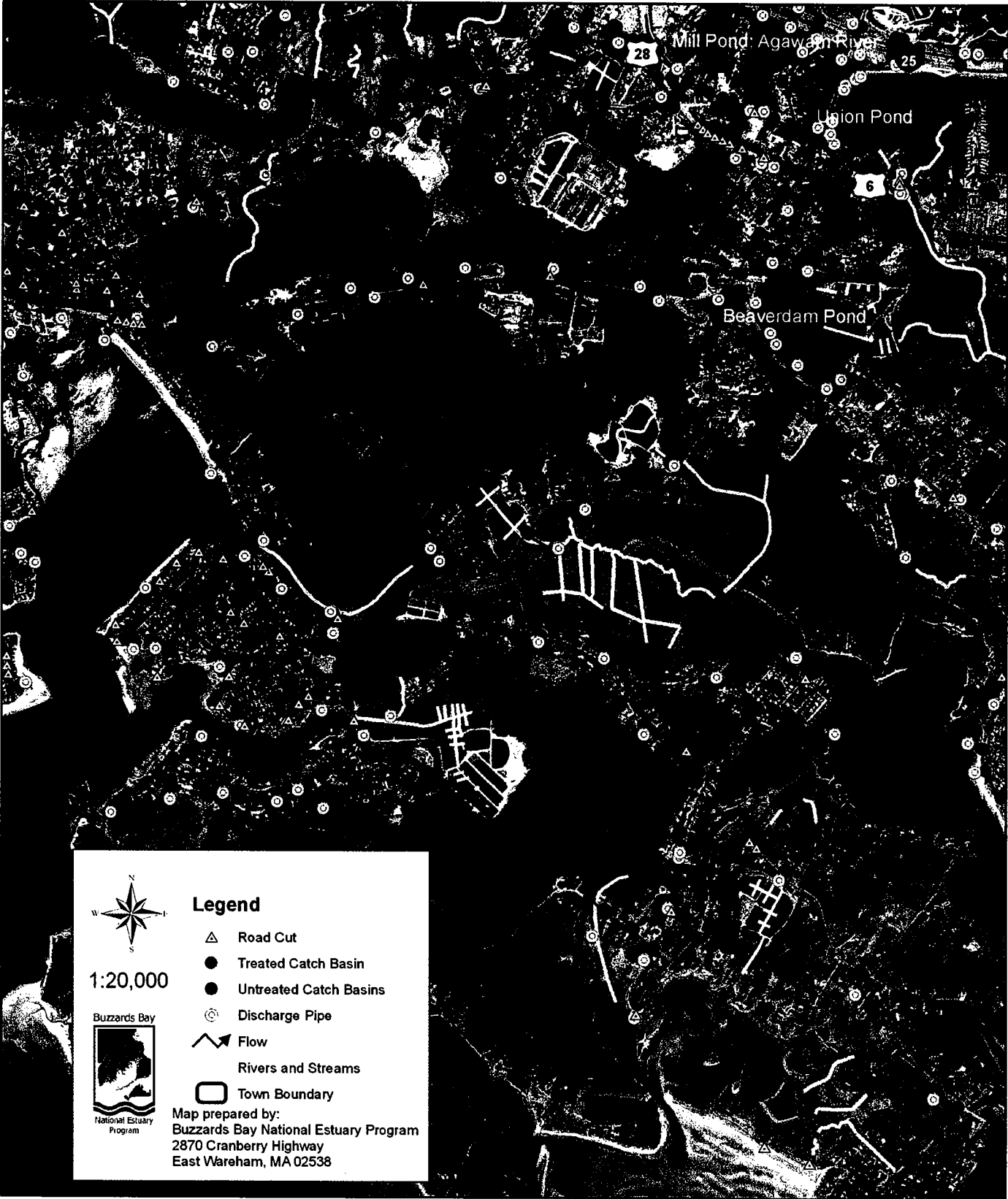
Wareham: Map 5



Wareham: Map 6



Wareham: Map 7



Wareham: Map 8

