

STATE OF RHODE ISLAND

2009

Annual Report to the Governor
on the Activities of the

DAM SAFETY PROGRAM



Overtopping earthen embankment of Creamer Dam (No. 742), Tiverton

Department of Environmental Management

Prepared by the Office of Compliance and Inspection

TABLE OF CONTENTS

HISTORY OF RHODE ISLAND’S DAM SAFETY PROGRAM..... 3

 STATUTES..... 3

 GOVERNOR’S TASK FORCE ON DAM SAFETY AND MAINTENANCE 3

 DAM SAFETY REGULATIONS 4

 DAM CLASSIFICATIONS..... 5

INSPECTION PROGRAM 7

ACTIVITIES IN 2009..... 8

 UNSAFE DAMS..... 8

 INSPECTIONS 10

 High Hazard Dam Inspections 10

 Significant Hazard Dam Inspections..... 12

 Requested Inspections 12

 REPAIR APPROVALS..... 13

 DAM OWNER / CONTACT INFORMATION..... 13

 REGISTRATION..... 13

 GRANTS TO DEM..... 14

 DAM SAFETY PRESENTATIONS 15

 DEM OWNED DAM REPAIRS 15

 EMERGENCY ACTION PLANS 15

 DAM MANAGEMENT DISTRICTS 16

PROFESSIONAL ASSOCIATIONS 16

PROGRAM LIMITATIONS 16

 STAFFING..... 16

 FINANCIAL ASSISTANCE FOR REPAIRS 17

 INSPECTION LIMITATIONS 17

 TECHNICAL GUIDANCE DOCUMENTS 17

HISTORY OF RHODE ISLAND'S DAM SAFETY PROGRAM

The Rhode Island dam inspection and inventory program had its inception in 1883, and was under the authority and responsibility of the Commissioner of Dams and Reservoirs. At that time, there were 86 dams included in the records; today, there are 671 inventoried dams. A list of these dams, sorted by town and river, is attached.

STATUTES

As set forth in Rhode Island General Laws, Chapters 46-18 and 46-19, a dam owner has the responsibility for the safe operation of his/her dam, and is liable for the consequences of accidents or failures of the dam. In general, a dam owner is required to use "reasonable care" in the operation and maintenance of a dam. This responsibility includes the proper operation, maintenance, repair and rehabilitation of a dam, which are essential elements in preventing a dam failure.

The criteria governing the administration and enforcement of Rhode Island's Dam Safety Program are contained in the General Laws of Rhode Island, Chapter 46-19. The Department of Environmental Management (DEM) has the responsibility to cause to be inspected dams to determine their condition, to review and approve plans for construction or substantial alteration of a dam, to order the owner to make repairs or to take other necessary action to make a dam safe.

Section 46-12.2-2 was amended in 2001, authorizing the Clean Water Finance Agency to issue loans for projects associated with dam safety.

In 2005, Chapter 45-62 (Dam Management Districts) was added, authorizing municipalities to create dam management districts to collect funds for dam repairs, maintenance, management and/or removal.

Two amendments to Chapter 46-19 were enacted in 2006. Section 4 was amended to authorize DEM, in an emergency, to take necessary actions to mitigate an unsafe condition at a dam and to assess the costs of those actions against the dam owner. Section 9 was amended to require a city or town where a high or significant hazard dam is located, and to require a state agency that owns a high or significant hazard dam, to complete by July 1, 2008, an Emergency Action Plan (EAP) for the dam. Rhode Island's Emergency Management Agency (EMA) is responsible for coordinating development of the EAPs and must give final approval for the EAP to be considered complete.

GOVERNOR'S TASK FORCE ON DAM SAFETY AND MAINTENANCE

In May 2000, Governor Almond issued Executive Order 00-6, *Creation of Dam Safety and Maintenance Task Force*. The Task Force was charged with developing recommendations for a comprehensive program of monitoring, maintenance and repairs that will enhance upkeep and safety of the dams in the State.

The Task Force, co-chaired by the Directors of DEM and EMA, was comprised of representatives of the RI Budget Office, the RI Clean Water Finance Agency, the Natural Resources Conservation Service, Public Works Directors for three Rhode Island municipalities, five dam associations, two dam owners, and four members of the General Assembly (not all General Assembly members were officially appointed to the Task Force).

The Task Force convened for 12 two hour sessions over a six month period, and finalized their recommendations in a report dated January 2001. The recommendations included legislative, regulatory, administrative and policy proposals designed to protect public safety, create an efficient approach to dam repairs and ensure a timely response should a community be threatened by a dam failure.

Although the proposed legislation developed by the Task Force was not enacted, DEM identified a number of recommendations that have been implemented through regulation (see *Dam Safety Regulations* on page 4).



Improperly vegetated spillway at Almy Dam (No. 169), Johnston

DAM SAFETY REGULATIONS

In 2002, DEM began drafting Dam Safety Regulations to incorporate those recommendations from the Governor's Task Force on Dam Safety and Maintenance (see page 3) that can be implemented within the framework of the existing statute.

In 2005, DEM completed a preliminary draft of the Dam Safety Regulations. DEM then invited former members of the Task Force to participate in an initial review of the draft Dam Safety Regulations and incorporated many of their suggestions into a revised draft. In conjunction with draft Dam Safety Regulations, DEM drafted amendments to the Freshwater Wetlands Regulations to streamline approvals for repair of high and significant hazard dams.

In October 2006, DEM held a workshop on the draft Dam Safety Regulations. About 55 people attended the 2 hour workshop, which resulted in many questions and comments, both at the workshop and in follow-up letters. In December 2006, DEM forwarded to the workshop attendees a written response to comments, along with revised draft regulations reflecting comments, as appropriate.

DEM then initiated the formal process of promulgating the regulations. On July 23, 2007, a notice was placed in the Providence Journal newspaper, notifying the public that DEM was seeking comment on the proposed Dam Safety Regulations at a public hearing to be held on August 23, 2007, at the DEM headquarters. About 10 people attended the public hearing and one person submitted formal comments (these comments were also previously submitted to DEM in a May 2007 letter, to which DEM responded in writing). The public comment period remained open following the hearing for 30 days until September 24, 2007; no additional comments were received.

Since no new comments on the proposed Dam Safety Regulations were received during the public hearing and comment period, DEM executed the regulations and filed them with the Secretary of State on November 30, 2007. The regulations, which are available on DEM's website at <http://www.dem.ri.gov/pubs/regs/regs/compinsp/dams07.pdf>, became effective on December 20, 2007 and include the following:

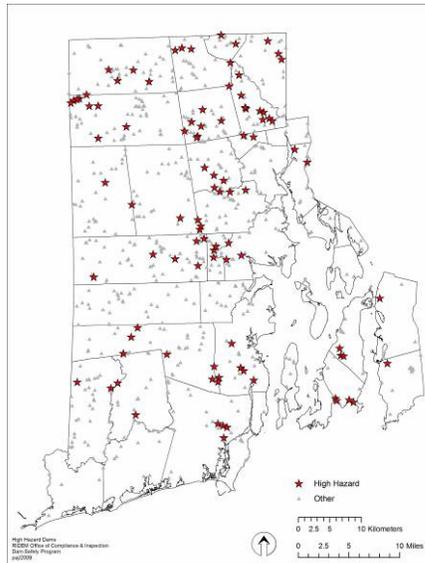
- Definitions of important terms including dam, hazard classifications, maintenance, repair and unsafe dam;
- Assignment of a hazard classification to each dam in the state inventory;
- Requirement that owners register their dams and notify DEM when ownership is transferred (no associated fee);
- A schedule for visual inspections of high and significant hazard dams;
- Procedure to streamline repair of high and significant hazard dams (no associated permit fee); and
- A procedure for dam owners to take emergency actions at high and significant hazard dams.

In June 2007, DEM's Freshwater Wetlands Regulations were amended to allow high and significant hazard dam repair requests to be approved under the Dam Safety Regulations. The Dam Safety Program coordinates such requests with the Freshwater Wetlands Program.

DAM CLASSIFICATIONS

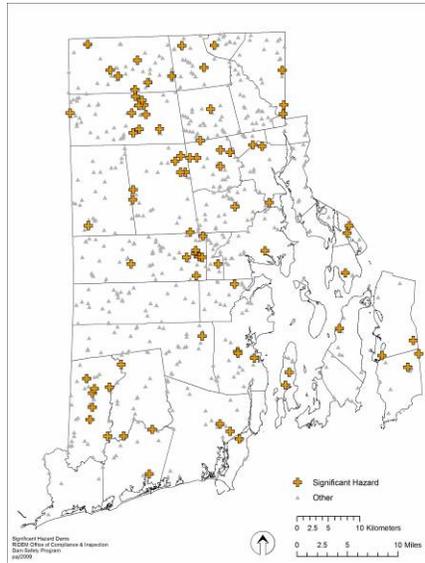
Inventoried dams are classified by size and hazard ratings. The size classification provides a relative description of small, medium or large, based on the storage capacity and height of the impounded water. The hazard classification relates to the probable consequences of failure or misoperation of the dam; it does not relate to the current condition or the likelihood of failure of the dam. The hazard classifications are defined in the Dam Safety Regulations, as follows:

High Hazard – means a dam where failure or misoperation will result in a probable loss of human life.



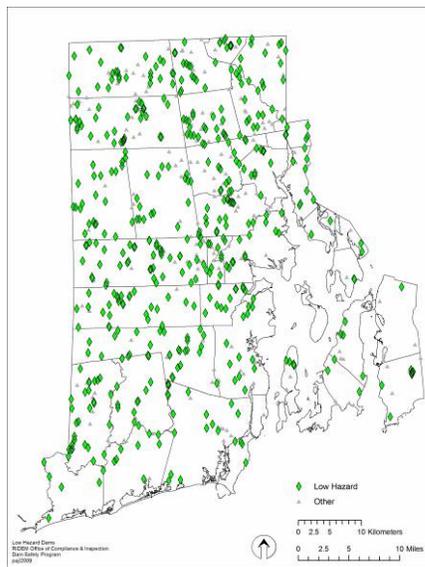
High Hazard Dams

Significant Hazard – means a dam where failure or misoperation results in no probable loss of human life but can cause major economic loss, disruption of lifeline facilities or impact other concerns detrimental to the public’s health, safety or welfare. Examples of major economic loss include washout of a state or federal highway, washout of two or more municipal roads, loss of vehicular access to residences, (e.g. a dead end road whereby emergency personnel could no longer access residences beyond the washout area) or damage to a few structures.



Significant Hazard Dams

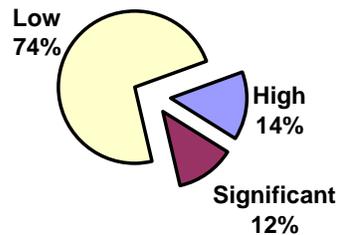
Low Hazard – means a dam where failure or misoperation results in no probable loss of human life and low economic losses.



Low Hazard Dams

There are 97 high hazard dams, 83 significant hazard dams, and 491 low hazard dams, with a total active inventory of 671 dams. The following chart illustrates the percentage of dams in each classification:

**Hazard Classifications
(Percent of Total Active Inventory)**



INSPECTION PROGRAM

In accordance with the Dam Safety Regulations, a dam's hazard classification determines the inspection frequency. Visual inspections of high hazard dams are required to be performed every two years and significant hazard dams every five years. Low hazard dams are inspected every five years to determine whether downstream conditions have changed over time that warrant raising the hazard classification to significant or high. A high or significant hazard dam is also visually inspected upon request by any person who has cause to believe that an unsafe dam exists. In addition, a visual inspection will be performed whenever DEM has cause to believe that an unsafe dam exists, to determine if the dam is unsafe.

The visual inspections performed are conducted under a general inspection format based on guidelines established in 1976 by the United States Army Corps of Engineers (ACOE) for the National Program for the Inspection of (Non-Federal) Dams. A visual inspection may be performed by DEM or by an engineer hired by the dam owner.

As part of each visual inspection, the condition of the major components of the dam are subjectively rated as *good*, *fair* or *poor*. The major components of a dam are the embankment, the spillway and the low level outlet. *Good* is defined as meeting minimum guidelines, where no irregularities are observed and the component appears to be maintained properly. *Fair* is defined as a component that requires maintenance. *Poor* is defined as a component that has deteriorated beyond a maintenance issue and requires repair; the component no longer functions as it was originally intended.

A detailed investigation may be required if a visual inspection leads to a determination that a dam is or may be unsafe. A detailed investigation may include studies, investigations and analyses appropriate to evaluate the structural safety and hydraulic capacity of a dam or reservoir and appurtenant works, such as soil analysis, concrete or earth stability analysis, materials testing, foundation explorations, hydraulic and hydrologic analysis, including basin studies, flood potential, and an analysis of the dam's ability to pass flood waters.

Following a visual inspection performed by DEM, a dam inspection report is prepared, identifying specific deficiencies and, when warranted, recommending corrective measures. A copy of the report is forwarded to the owner, with the expectation that the deficiencies will be corrected. If a dam is determined to be unsafe, then DEM will order corrective action.

ACTIVITIES IN 2009

UNSAFE DAMS

One of DEM's primary responsibilities in the Dam Safety Program is to identify unsafe dams and take appropriate action to return the dams to a safe condition. An unsafe dam is a high or significant hazard dam whose condition is such that an unreasonable risk of failure exists.

In 2009, DEM was addressing four unsafe dams, as indicated below:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION	EMBANKMENT	SPILLWAY	LOW LEVEL OUTLET
Hopkinton	229	Blue	Significant	Poor	Fair	Poor
Johnston	168	Oak Swamp	High	Poor	Not Inspected	Not Inspected
Johnston	169	Almy	High	Poor	Poor	Poor
Lincoln	295	Limerock	High	Poor	Fair	Poor

A summary of the conditions at each dam follows:

Dam number 168 (Oak Swamp) in Johnston

DEM inspected the dam in September 2008. A Notice of Intent to Enforce (NIE), including a copy of the inspection report, was forwarded to the Town of Johnston as the dam owner in July 2009. The NIE advised the Town that a complete visual inspection of the dam could not be performed due to the presence of excessive vegetation on and adjacent to the dam. The NIE required the Town to cut or remove all brush, low growing ground cover and dense clusters of twiggy vegetation on all areas of the dam and within fifteen (15) feet of the downstream toe of the dam such that the surface of the dam and downstream toe is visible for inspection. In August 2009, the Town notified DEM that vegetation removal was complete. The dam is scheduled for a reinspection by DEM in 2010.

Dam number 169 (Almy) in Johnston

DEM inspected the dam in September 2008. An NIE, including a copy of the inspection report, was forwarded to the Town of Johnston as the dam owner in December 2008. The NIE advised the Town of the following: a complete visual inspection could not be performed due to excessive vegetation on the dam, the low level outlet was inoperable and the spillway did not function as originally constructed. The NIE required the Town to cut sufficient vegetation to allow DEM to perform a complete visual inspection and to develop a reasonable schedule to address the other two unsafe conditions. In July 2009, the Town stated that vegetation removal would commence following removal of vegetation from the Oak Swamp Dam (see paragraph above). DEM has not received any notification from the Town that the vegetation was removed, and must therefore follow up on the matter in 2010.

Dam number 229 (Blue) in Hopkinton

DEM's engineering consultant inspected the dam to reassess its hazard classification (see *Grants To DEM* on page 14) and submitted a draft report dated March 2007 to DEM recommending the dam be classified as a significant hazard. In addition to the classification, the report advised DEM of a potential unsafe condition. That is, significant leakage at two locations along with other stability problems including the downstream masonry wall tipping slightly downstream, downward movement of the material on the upstream and downstream slopes, and sinkholes on the crest were observed. DEM issued an NIE to the dam owner in April 2007. The NOI required the owner to temporarily lower the impoundment such that leakage no longer poses a safety threat, and to develop a report specifying how the dam will be returned to a safe condition. Due to the significant leakage and lack of precipitation, the impoundment lowered without further intervention.

In February 2008, DEM inspected the dam following heavy rains. The pond was 6 to 12 inches higher than it was during an inspection in November 2006 and was 6 to 12 inches below the crest of the spillway. The areas of significant leakage through the earthen embankment appeared unchanged.

In March 2008, the owner submitted a Freshwater Wetlands application proposing to permanently lower the normal water level in the pond. The proposal includes construction of a new spillway at an elevation about 7.5 feet lower than the existing spillway. In addition to the physical modifications, the owner applied to the Dam Safety Program to reduce the hazard classification from significant to low.

In January 2009, DEM forwarded comments to the owner's engineer, requesting additional information to support the request for the hazard classification reduction. In a subsequent telephone conversation, the engineer indicated that the freshwater wetlands permit issues will be addressed first. The dam safety issues will be addressed next, either by reclassifying the dam to a low hazard, in which case the repairs will not be regulated by dam safety, or by leaving the dam as a significant hazard, requiring that seepage along the length of the embankment be addressed.



Seepage/leakage at Blue Dam (No. 229), Hopkinton

Dam number 295 (Limerock) in Lincoln.

DEM's engineering consultant inspected this dam and advised DEM, in their hazard classification report dated January 2004 (see *Grants To DEM* on page 14), of conditions present at the dam which could lead to an unsafe condition. DEM followed up this report with a visual inspection of the dam in March 2004. The inspection revealed that the condition of the spillway was inadequate and the dam was unsafe. In April 2005, DEM issued an NIE to the Town of Lincoln as the dam owner. The action required that the Town perform frequent inspections of the dam, lower the impoundment as a temporary measure and retain an engineer to develop a plan that described how the dam would be made safe. In October 2005, the Town submitted an engineering report to DEM that presented options for addressing both the short term and long term safety of the dam. In 2006, the Town implemented the short term measures and their engineer was completing the final evaluations to address the long term measures. The Town and their engineer met with DEM in July 2007 to review progress and verify that the proposed direction of permanently lowering the impoundment is feasible. During 2007, the Town continued monitoring the dam on a regular basis and worked with partners collecting data to be used for the DEM permitting process.



Downstream slope of the Limerock Dam (No. 295), Lincoln

In February 2008, DEM inspected the dam following heavy rain. The pond was 2 to 4 inches above the spillway crest and the water was flowing freely. Debris in the emergency spillway had been removed and it was available for use, although the pond was not high enough to flow through it.

In July 2008, DEM issued a Notice of Violation (NOV) to the Town. The NOV required the Town to make the dam safe and assessed a penalty of \$1,000, which would continue to accrue per day unless the Town demonstrated that reasonable efforts were made to comply promptly with the NOV. In September 2008, at the Town's request, the Town, their engineering consultant and DEM met at the dam. Prior to the meeting, the Town cut all trees and brush on the dam and placed stone erosion protection on the embankment, under and downstream of the spillway outlet and on the crest at the emergency spillway. The Town and their engineer proposed to remove stumps and backfill the voids, replace the existing spillway pipe with an open channel spillway, investigate the presence of low level gates (based on old documents, it appears that 3 gates may be present along the upstream slope) and investigate seepage through the dam and address the instability of the embankment.

In March 2009, DEM and the Town entered a Consent Agreement to resolve the NOV. As a result, the Town paid a \$500 penalty and in September 2009, submitted plans to DEM with proposed repairs to return the dam to a safe condition. DEM reviewed the plans and requested additional information in October 2009, and the approval process continued through the end of the year.

INSPECTIONS

The Dam Safety Regulations (see page 4) require visual inspection of high hazard dams every two years and significant hazard dams every five years.

High Hazard Dam Inspections

The 2008 Annual Dam Safety Report stated that the following dams¹ were inspected by DEM in 2008 and the inspection reports would be completed and forwarded to the owners in 2009:

TOWN	DAM NO.	DAM NAME	EMBANKMENT	SPILLWAY	LOW LEVEL OUTLET
Johnston	168	Oak Swamp	Poor	Not Accessible	Not Accessible
Johnston	170	Simmons Upper	Poor	Poor	Poor
Johnston	171	Simmons Lower	Poor	Poor	Poor
North Kingstown	708	Shady Lea	Fair	Fair to Poor	Not Present

¹ The 2008 report stated there were five dams, however, dam number 171 (Simmons Lower) was incorrectly counted twice.

Dam number 168 (Oak Swamp) in Johnston
See *Unsafe Dams* on page 8.

Dam numbers 170 (Simmons Upper) and 171 (Simmons Lower) in Johnston
Both dams were inspected in September 2008. Inspection reports were not completed or forwarded to the owner, the Town of Johnston. The dams are scheduled for inspection in 2010, at which time the findings from the 2008 inspections will be incorporated into the 2010 inspection reports.

Dam number 708 (Shady Lea) in North Kingstown
DEM inspected the dam in November 2008. Following the inspection and a review of the documents in the DEM files for the dam, it was determined that the full extent of the dam was not inspected (the downstream side of the left end of the dam was located in the basement of an adjacent building and was not inspected). In March 2009, DEM returned to the dam to complete the inspection. In March 2009, the inspection report was forwarded to the dam owner with maintenance and repair recommendations. Since the inspection was completed in 2009, it is being counted as a 2009 inspection.

The following twenty-one high hazard dams were inspected in 2009:

TOWN	DAM NO.	DAM NAME	EMBANKMENT	SPILLWAY	LOW LEVEL OUTLET
Burrillville	003	Wilson	(1)	(1)	(1)
Cranston	373	Clarke's Upper	(1)	(1)	(1)
Cranston	172	Cranston Print Works	(1)	(1)	(1)
Cranston	320	Stone	(1)	(1)	(1)
Glocester	556	Clarkville	(1)	(1)	(1)
Glocester	555	Hawkins	(1)	(1)	(1)
Glocester	022	Keech	(1)	(1)	(1)
Glocester	401	Lake Washington	(1)	(1)	(1)
Glocester	165	Ponagansett	(1)	(1)	(1)
Glocester	727	Bowdish Lower	(1)	(1)	(1)
Lincoln	101	Barney	Fair	Fair	Poor
North Kingstown	708	Shady Lea	Fair	Fair to Poor	Not Present
North Providence	084	Wenscott	(1)	(1)	(1)
North Providence	760	Louisquisset Flood Control	(1)	(1)	(1)
North Smithfield	048	Forestdale	(1)	(1)	(1)
North Smithfield	046	Slatersville Middle	(1)	(1)	(1)
North Smithfield	043	Slatersville Upper	(1)	(1)	(1)
Smithfield	116	Hopkins	(1)	(1)	(1)
Smithfield	115	Slack	(1)	(1)	(1)
Smithfield	121	Sprague Lower	(1)	(1)	(1)
Smithfield	120	Sprague Upper	(1)	(1)	(1)

(1) Report not available. - These 19 dams were inspected by an engineering consultant hired by DEM using a Federal Emergency Management Agency (FEMA) grant (see page 14). The inspections were performed in 2009; however, the final reports will be submitted to DEM in the first quarter of 2010.

The following two dams were inspected by DEM:

Dam number 101 (Barney) in Lincoln

The dam was inspected in April 2009 and, due to other priorities, the inspection report was not completed. The report is scheduled for completion in 2010.



Downstream side of Barney Dam (No. 101), Lincoln

Dam number 708 (Shady Lea) in North Kingstown
See paragraph above.

Significant Hazard Dam Inspections

No significant hazard dams were inspected in 2009.

Requested Inspections

The Dam Safety Regulations requires DEM to inspect any high or significant hazard dam upon request by any person who has cause to believe the dam is unsafe. In 2009, DEM received the following three such requests:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION	REASON FOR INSPECTION REQUEST	OUTCOME
Hopkinton	274	Harris	Significant	Breached embankment	Valid
North Providence	760	Louisquisset	High	Blocked outlet	Valid
Tiverton	742	Creamer	High	Embankment overtopping	Valid

Dam number 274 (Harris) in Hopkinton

In July 2009, DEM received a telephone call stating the Town of Hopkinton had placed sand bags in a breach in the dam to protect the adjacent road. Inspection revealed that the breach was in a low section of the dam, at about 2 feet high. The breach was 4 to 5 feet long and the previously placed sand bags were securely in place and functioning properly. Inspection of the remainder of the dam, with a maximum height of about 11 feet, was attempted; however it was not possible due to dense vegetation growth.



Sand bagged breach in Harris Dam (No. 274), Hopkinton

Dam number 742 (Creamer) in Tiverton

In March 2009, DEM received a telephone call indicating that the pond level was up to the crest of the earthen embankment. DEM and local emergency management personnel determined that the pond was elevated due to a blocked, culverted outlet. The submerged outlet was located and, because the dam owner was not known, Tiverton public works personnel entered the pond to dislodge debris from the outlet, allowing water to flow from the pond and lower it to a safe level.

Dam number 760 (Louisquisset) in North Providence

DEM received a telephone call in February 2009, stating that the ungated outlet at the base of the spillway was blocked, causing the normally empty impoundment behind the flood control dam to rise to within one foot of the spillway crest. Because the dam owner was not known, the Town of North Providence was contacted and sent public works personnel to remove debris from the outlet.



Free flowing outlet at base of Louisquisset Dam (No.760), North Providence

REPAIR APPROVALS

In 2009, DEM approved the following repair requests of high and significant hazard dams:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION	REPAIR
West Warwick	148	Arctic	High	Temporary installation of seepage monitoring/reduction devices and temporary shoring of the building located on and adjacent to the dam

DAM OWNER / CONTACT INFORMATION

DEM's records for the owners of dams that were previously classified as high or significant hazard are fairly accurate. Many of the dams which were previously classified as low hazard and are now significant or high hazard have questionable owner information. DEM has identified about 40 dams with unknown or questionable owners and, using the FEMA grant, contracted with two title companies to identify the owners. The title companies completed their work in 2008, however, several dams require additional research and analysis by DEM legal counsel, which will take place as time allows.

REGISTRATION

In 2008, in accordance with the Dam Safety Regulations, DEM began the process of registering dams. The process involves mailing a registration form to each owner of a high or significant hazard dam and formally notifying them of their dam's hazard classification. The owner then has specific time periods in which to return a completed registration form, or to appeal ownership or the hazard classification. About 150 such letters were mailed through 2009, with the remainder scheduled to be mailed as time allows. Following receipt of the completed registration forms, DEM will issue a certificate of registration to each

dam owner, identifying the proper name, registration number and current hazard classification of the dam. DEM will also provide a schedule indicating the year in which the dam is required to be inspected.

GRANTS TO DEM

From 2000 through 2009, DEM received grants totaling \$386,777 from the Federal Emergency Management Agency (FEMA) National Dam Safety Program.

The 2007 FEMA grant to DEM was \$26,862. In December 2008, DEM used \$23,500 to hire an engineering consultant to determine the hazard classification for two dams currently classified as low hazard that DEM believes may be incorrect, and to provide updated dam failure inundation maps for 16 high and significant hazard dams formerly completed nearly 30 years ago on black & white topographic maps by the ACOE.

A typical inundation map is shown below. The hypothetically failed dam is in the top left corner of the photo and the purple area indicates the expected path of the released water.



Oak Swamp Dam (No. 168), Johnston

The remainder of the grant was used to pay a carry-over bill for the title company hired in 2007, to purchase toner for the color laser printer purchased in 2006, to pay for certified mail costs for the registration program (see *Registration* on page 13) and to purchase laminating material to protect a set of statewide topographic maps indicating dam locations. The projects using the 2007 grant were completed in March 2009.

The 2008 FEMA grant was for \$26,864. In 2009, DEM used \$26,000 to enter a contract with an engineering consultant to visually inspect 19 high hazard dams. All 19 dams were inspected in 2009, with completion of the inspection reports due by the end of March 2010. Following receipt of the final inspection reports, DEM will forward a copy to the respective dam owners, and include recommendations for maintenance or repair, and requirements to remedy any unsafe conditions that may have been encountered.

The 2009 FEMA grant was \$65,145. About 75% will be used for engineering services to visually inspect high and significant hazard dams and the remainder for engineering services to develop Emergency Action Plans (see page 15 below) for high hazard dams.

DAM SAFETY PRESENTATIONS

DEM participated in the following meetings, providing an overview of the Dam Safety Program and the Dam Safety Regulations:

In May 2009, DEM participated in a seminar presented by the Environmental Business Council of New England (EBC) discussing dam safety in New England.

DEM also participated in another seminar presented by the EBC in July 2009, discussing dam removal and river restoration.

In September 2009, DEM participated in a conference hosted by the Blackstone Valley Tourism Council.

In August and November 2009, DEM participated in a table top exercise and a mock full scale dam failure exercise, respectively, of the Gainer Dam (No. 161) in Scituate. The exercises were sponsored by Rhode Island's Emergency Management Agency and the purpose was to test the effectiveness of various emergency response plans.

DEM OWNED DAM REPAIRS

DEM continued to move forward under its Capital Development Projects program, undertaking the engineering evaluation, design and reconstruction at the following DEM owned dam:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION
Cranston	166	Curran Upper	High

In 2008, an engineering consultant was selected to develop the final design for the reconstruction project. Development of the final design plans continued through 2009 and is expected to be completed in 2010.

EMERGENCY ACTION PLANS

Rhode Island General Laws Section 46-19-9 was added in 2006 to require a city or town in which a high or significant hazard dam is located, and to require a state agency that owns a high or significant hazard dam, to complete by July 1, 2008, an Emergency Action Plan (EAP) for the dam (see *Statutes* on page 3). An EAP is a formal document that identifies potential emergency conditions at a dam and specifies pre-planned actions to be followed to minimize loss of life and property damage. The law mandates that Rhode Island's Emergency Management Agency (EMA) coordinate development of the EAPs, and must give final approval for an EAP to be considered complete. The law also requires DEM and the Rhode Island League of Cities and Towns to cooperate with EMA.

DEM owns all 12 of the state-owned high and significant hazard dams:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION
Cranston	198	Curran Lower	High
Cranston	166	Curran Upper	High
Cranston	340	Meshanticut Park	Significant
Exeter	221	Browning Mill	High
Glocester	566	Bowdish	High
Glocester	018	Burlingame Upper	High
Glocester	499	Durfee Hill Wildlife Marsh #2	Significant
Hopkinton / Richmond	216	Wyoming Upper	High
Lincoln	102	Olney	High
Little Compton	474	Simmons	Significant
North Kingstown	444	Silver Spring	High
Smithfield	108	Stillwater	High

In October 2007, EMA presented a draft EAP template to DEM and the League of Cities and Towns for review. DEM provided comments to EMA which made changes to the template and finalized it.

The EAP template was presented to city and town officials in January 2008. The officials were informed that DEM would provide dam failure inundation maps for all high and significant hazard dams, for use in completing the EAPs. As the inundation maps were finalized, DEM mailed them to the appropriate municipalities.

Through 2009, EMA received 69 draft EAPs, none of which have been approved. No EAPs have been submitted by DEM for the 12 state-owned dams.

DAM MANAGEMENT DISTRICTS

Under state law, municipalities have the authority to create dam management districts to collect funds for the maintenance and repair of dams within their boundaries. In 2009, DEM was aware of the following two such districts:

TOWN	DAM NO.	DAM NAME	HAZARD CLASSIFICATION
Burrillville	016	Pascoag Upper	High
Exeter	219	Boone	High

A management district was created for the *Pascoag Reservoir Upper Dam (No. 16)* in 2009. The dam is a privately owned, high hazard dam in Burrillville. The management district was created jointly with the Towns of Burrillville and Glocester (a portion of the impoundment is located in Glocester). The Burrillville Town Council appointed the first board of directors for the management district, which is developing the bylaws.

In 2008, a management district was created for the *Boone Dam (No. 219)* in Exeter, which is a privately owned, high hazard dam.

PROFESSIONAL ASSOCIATIONS

Rhode Island has been a member of Association of State Dam Safety Officials (ASDSO) since its inception in Denver, Colorado in 1984. ASDSO membership consists of state representatives along with corporate and individual members representing dam owners and professional engineering firms. ASDSO was formed to serve these initial functions:

- Improve efficiency and effectiveness of state dam safety programs;
- Foster public awareness;
- Facilitate inter-organizational, intergovernmental and interstate cooperation;
- Assist the dam safety community and provide a forum for the exchange of information;
- Provide representation of dam safety interests before state legislatures and before Congress; and
- Manage the association effectively through internal policies and procedures.

ASDSO has helped to improve dam safety in Rhode Island mainly through its sponsorship of regional dam safety workshops and its national annual conferences.

PROGRAM LIMITATIONS

STAFFING

Currently, the Dam Safety Program has a staff of 1.2 full time equivalents, consisting of one full time engineer/inspector, 0.1 supervisory and 0.1 administrative/clerical. To successfully meet the requirements of the current statute, DEM estimates one additional full time engineer/inspector is necessary.

In 2009, DEM began training two DEM engineers, who will assist with dam inspections on a part time basis, beginning in 2010.

FINANCIAL ASSISTANCE FOR REPAIRS

The Governor's Dam Safety and Maintenance Task Force concluded that repairs to bring all Rhode Island dams up to current safety standards could cost on average as much as \$800,000 per dam. Unfortunately, the state is not able to offer any financial assistance for these repairs. In many cases, the costs are so overwhelming that even if the state were to offer a repair loan, the owner could not afford to repay it. Creative financial assistance will be a key element for improving the condition of dams in the state.

The Governor and General Assembly recognized the need for financial assistance and enacted legislation to assist owners with the cost of dam repair. Legislation was enacted in 2001, authorizing the Clean Water Finance Agency (CWFA) to issue loans for projects associated with dam safety and in 2005 authorizing municipalities to create dam management districts to, among other things, collect funds for the maintenance and repair of dams.

INSPECTION LIMITATIONS

By law, DEM is required to cause to be inspected all the dams in the state. However, the visual inspections performed by the Dam Safety Program do not involve full engineering analyses of the structural integrity of dams. DEM does not have the staff or the financial resources to ensure that such inspections are completed. Although a visual inspection can provide indicators of underlying problems, an engineering analysis is needed to more fully assess the condition of the dam.

TECHNICAL GUIDANCE DOCUMENTS

DEM has made available a technical guidance document titled, *Dam Safety – An Owner's Guidance Manual*, prepared by FEMA and the state of Colorado. The document is available on DEM's website at <http://www.dem.ri.gov/programs/benviron/compinsp/pdf/damguide.pdf>. Although it is a useful document, DEM would like to develop technical guidance documents specific to Rhode Island. Such documents would better assist both dam owners and consultants in understanding requirements in the Dam Safety Regulations.

This completes the annual report on dam safety and the activities performed by DEM in 2009. For further information on the Dam Safety Program please contact David Chopy at (401) 222-1360 extension 7400.

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
BARRINGTON	MUSSACHUCK CREEK-TRIB	ECHO LAKE	570	LOW
BARRINGTON	UNNAMED	NEW MEADOW NECK	661	LOW
BRISTOL	MOUNT HOPE BAY-TRIB	MOUNT HOPE FARM UPPER	662	LOW
BRISTOL	MOUNT HOPE BAY-TRIB	MOUNT HOPE FARM LOWER	663	LOW
BRISTOL	UNNAMED STREAM	STATE STREET POND	409	SIGNIFICANT
BURRILLVILLE	BLACKMORE BROOK	WAKEFIELD POND	481	LOW
BURRILLVILLE	BRANCH RIVER	OAKLAND POND	037	LOW
BURRILLVILLE	BRANCH RIVER	GLENDALE	038	LOW
BURRILLVILLE	BRANCH RIVER	MOHEGAN	040	LOW
BURRILLVILLE	BRANCH RIVER	NASONVILLE POND	041	LOW
BURRILLVILLE	BRANCH RIVER-TRIB	BLACK HUT POND	512	LOW
BURRILLVILLE	BRANCH RIVER-TRIB	LAPHAM	633	LOW
BURRILLVILLE	BRANCH RIVER-TRIB	MERCANTUM FARM POND	634	LOW
BURRILLVILLE	BRANDY BROOK	PASCOAG RESERVOIR UPPER	016	HIGH
BURRILLVILLE	CHEPACHET RIVER	MAPLEVILLE POND	010	HIGH
BURRILLVILLE	CHEPACHET RIVER	GILLERAN POND	035	SIGNIFICANT
BURRILLVILLE	CLEAR RIVER	WALLUM LAKE	001	SIGNIFICANT
BURRILLVILLE	CLEAR RIVER	WALLUM LAKE POOL	002	LOW
BURRILLVILLE	CLEAR RIVER	WILSON RESERVOIR	003	HIGH
BURRILLVILLE	CLEAR RIVER	PRENDERGAST MILL POND	004	LOW
BURRILLVILLE	CLEAR RIVER	GREEN SHODDY MILL POND	005	LOW
BURRILLVILLE	CLEAR RIVER	PREMIER MILL POND	006	LOW
BURRILLVILLE	CLEAR RIVER-TRIB	BARKER FARM POND	490	LOW
BURRILLVILLE	CLEAR RIVER-TRIB	LAFERRIER FARM POND	524	LOW
BURRILLVILLE	CLEAR RIVER-TRIB	ROSS POND	565	SIGNIFICANT
BURRILLVILLE	CLEAR RIVER-TRIB	KNIBB ROAD POND	638	LOW
BURRILLVILLE	HERRING BROOK	SPRING LAKE	039	SIGNIFICANT
BURRILLVILLE	KEACH BROOK	RICHARDSON MARSH	604	LOW
BURRILLVILLE	LEESON BROOK	BUCK HILL POND	496	LOW
BURRILLVILLE	LELAND BROOK-TRIB	SHIELDS FARM POND	506	LOW
BURRILLVILLE	MARY BROWN BROOK	WILBUR POND	572	HIGH
BURRILLVILLE	PASCOAG RIVER	HARRISVILLE POND	008	HIGH
BURRILLVILLE	PASCOAG RIVER	AMERICAN MILL POND	011	LOW
BURRILLVILLE	PASCOAG RIVER	AKELA POND	014	LOW
BURRILLVILLE	PASCOAG RIVER	UNION MILL POND	015	SIGNIFICANT
BURRILLVILLE	PASCOAG RIVER-TRIB	KNIBB FARM POND	429	LOW
BURRILLVILLE	RANKIN BROOK	LAKE BEL AIR	054	LOW
BURRILLVILLE	ROUNDTOP BROOK	ROUND TOP POND	042	LOW
BURRILLVILLE	ROUNDTOP BROOK	LITTLE ROUNDTOP POND	501	LOW
BURRILLVILLE	SUCKER BROOK	SUCKER POND	027	SIGNIFICANT
BURRILLVILLE	TARKILN BROOK	TARKILN MILL POND	049	LOW
BURRILLVILLE	TARKILN BROOK	TARKILN POND	050	LOW
BURRILLVILLE	TARKILN BROOK	NICHOLS POND	051	SIGNIFICANT
BURRILLVILLE	TARKILN BROOK-TRIB	WOONSOCKET SPORTSMEN'S CLUB POND	463	LOW
BURRILLVILLE	TROUT POND BROOK	TROUT POND	036	LOW
CENTRAL FALLS / CUMBERLAND	BLACKSTONE RIVER	VALLEY FALLS POND	063	LOW
CENTRAL FALLS / PAWTUCKET	BLACKSTONE RIVER	CENTRAL FALLS	064	LOW
CHARLESTOWN	CEDAR SWAMP BROOK	INDIAN CEDAR SWAMP	279	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
CHARLESTOWN	CEDAR SWAMP BROOK	GOBEILLE POND	487	LOW
CHARLESTOWN	NINIGRET POND-TRIB	CROSS MILLS	758	SIGNIFICANT
CHARLESTOWN	PASQUISET BROOK-TRIB	MCLEOD FARM POND	441	LOW
CHARLESTOWN	POQUIANT BROOK-TRIB	BURLINGAME RESERVATION	423	LOW
CHARLESTOWN	POQUIANT BROOK-TRIB	CLAUSEN FARM POND	457	LOW
CHARLESTOWN	UNNAMED STREAM	KING TOM POND	576	LOW
CHARLESTOWN / RICHMOND	PAWCATUCK RIVER	KENYON MILL POND	248	LOW
CHARLESTOWN / RICHMOND	PAWCATUCK RIVER	HORSESHOE FALLS	249	SIGNIFICANT
CHARLESTOWN / RICHMOND	PAWCATUCK RIVER	SHANNOCK MILL POND	250	LOW
CHARLESTOWN / RICHMOND	PAWCATUCK RIVER	CAROLINA POND	252	LOW
CHARLESTOWN/HOPKINTON	PAWCATUCK RIVER	BURDICKVILLE	251	LOW
COVENTRY	BEAR BROOK	SNOW FARM POND	477	LOW
COVENTRY	BEAR BROOK-TRIB	ANDERSON FARM POND	433	LOW
COVENTRY	BIG RIVER-TRIB	MANNI FARM POND	495	LOW
COVENTRY	BLACK ROCK BROOK	PEARCE POND	371	HIGH
COVENTRY	BLACK ROCK BROOK-TRIB	BLACK ROCK ICE POND	370	LOW
COVENTRY	BLACKROCK BROOK	BLACK ROCK RESERVOIR	185	HIGH
COVENTRY	BOYD BROOK	SALISBURY POND UPPER	375	LOW
COVENTRY	BOYD BROOK	SALISBURY POND LOWER	376	LOW
COVENTRY	BUCKS BROOK	KOSZELA	694	LOW
COVENTRY	BUCKS HORN BROOK	NYE FARM POND	500	LOW
COVENTRY	BURLINGAME BROOK	BURLINGAME POND	567	LOW
COVENTRY	FLAT RIVER RESERVOIR-TRIB	TOWN FARM ROAD	680	LOW
COVENTRY	FLAT RIVER RESERVOIR-TRIB	GORTON POND	681	LOW
COVENTRY	FLAT RIVER RESERVOIR-TRIB	HALL CENTRAL	688	LOW
COVENTRY	FLAT RIVER RESERVOIR-TRIB	HALL LOWER	689	LOW
COVENTRY	FLAT RIVER RESERVOIR-TRIB	DUPONT	700	LOW
COVENTRY	MCCUSTER BROOK	HAVENS POND	377	LOW
COVENTRY	MCCUSTER BROOK	MCCUSTER POND LOWER	378	LOW
COVENTRY	MCCUSTER BROOK	MCCUSTER POND UPPER	379	LOW
COVENTRY	MCCUSTER BROOK	HAVENS MIDDLE	686	LOW
COVENTRY	MCCUSTER BROOK	HAVENS LOWER	687	LOW
COVENTRY	MCCUSTER BROOK	MEDITATION	744	LOW
COVENTRY	MISHNOCK RIVER	SPRING LAKE	178	LOW
COVENTRY	MOOSUP RIVER	BRIGGS POND LOWER	735	LOW
COVENTRY	MOOSUP RIVER	BRIGGS POND UPPER	736	LOW
COVENTRY	MOOSUP RIVER-TRIB	LUTHER FARM POND	517	LOW
COVENTRY	MOOSUP RIVER-TRIB	NEWMAN FARM POND	543	LOW
COVENTRY	MOOSUP RIVER-TRIB	CARBUNCLE	606	LOW
COVENTRY	NORTHRUP BROOK	UPPER POND	186	SIGNIFICANT
COVENTRY	NORTHRUP BROOK	MIDDLE POND	187	SIGNIFICANT
COVENTRY	NORTHRUP BROOK	SEARLES CAPWELL POND	197	LOW
COVENTRY	PAWTUXET RIVER-NORTH BRANCH	HARRIS POND	157	SIGNIFICANT
COVENTRY	PAWTUXET RIVER-NORTH BRANCH	ARKWRIGHT POND	158	LOW
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	QUIDNICK POND UPPER	151	SIGNIFICANT
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	MILL POND	152	SIGNIFICANT
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	WASHINGTON POND UPPER	153	LOW
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	FLAT RIVER RESERVOIR	167	HIGH

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	CROMPTON UPPER	194	LOW
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	QUIDNICK POND LOWER	195	LOW
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH	HOPKINS FARM POND	498	SIGNIFICANT
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH-TRIB	POTTER FARM #1	677	LOW
COVENTRY	PAWTUXET RIVER-SOUTH BRANCH-TRIB	POTTER FARM #2	679	LOW
COVENTRY	PIERCE BROOK	MATTESON ROAD #1	684	LOW
COVENTRY	PIERCE BROOK	MATTESON ROAD #2	685	LOW
COVENTRY	PINE SWAMP BROOK	OLNEY-MATHEWSON MILL POND	380	LOW
COVENTRY	QUIDNICK BROOK	QUIDNICK RESERVOIR	175	SIGNIFICANT
COVENTRY	QUIDNICK BROOK	COVENTRY RESERVOIR	176	HIGH
COVENTRY	QUIDNICK BROOK	COVENTRY CENTER POND LOWER	191	LOW
COVENTRY	QUIDNICK BROOK-TRIB	RUSACK FARM POND	503	LOW
COVENTRY	QUIDNICK BROOK-TRIB	LONGRIDGE WILDLIFE MARSH #2	528	LOW
COVENTRY	QUIDNICK BROOK-TRIB	LONGRIDGE WILDLIFE MARSH #1	529	LOW
COVENTRY	ROARING BROOK	ARNOLD POND	561	HIGH
COVENTRY	ROARING BROOK	WHITFORD	562	LOW
COVENTRY	ROARING BROOK	GREAT GRASS POND	593	LOW
COVENTRY	ROARING BROOK	GREENE	698	LOW
COVENTRY	ROARING BROOK-TRIB	HOPKINS HOLLOW	699	LOW
COVENTRY	TIOGUE LAKE-TRIB	CENTER OF NEW ENGLAND #1	645	SIGNIFICANT
COVENTRY	TIOGUE LAKE-TRIB	DEANS	743	LOW
COVENTRY	TIOGUE RIVER	TIOGUE LAKE	177	HIGH
COVENTRY	TIOGUE RIVER-TRIB	ROPEWALK POND	083	LOW
COVENTRY	WARWICK BROOK	WATERMAN POND	563	LOW
CRANSTON	CLARKE BROOK	CURRAN UPPER RESERVOIR	166	HIGH
CRANSTON	CLARKE BROOK	CURRAN LOWER RESERVOIR	198	HIGH
CRANSTON	CLARKE BROOK	CLARKE'S POND LOWER	372	LOW
CRANSTON	CLARKE BROOK	CLARKE'S POND UPPER	373	HIGH
CRANSTON	FENNER BROOK	STONE POND	320	HIGH
CRANSTON	FURNACE HILL BROOK	SARGENT'S POND	341	LOW
CRANSTON	FURNACE HILL BROOK	POWERS POND	342	LOW
CRANSTON	FURNACE HILL BROOK	WOOD'S MILL POND	343	LOW
CRANSTON	LIPPITT BROOK	FEDOROWICZ FARM POND	505	LOW
CRANSTON	MESHANTICUT BROOK	ARROW LAKE #1	335	LOW
CRANSTON	MESHANTICUT BROOK	ARROW LAKE #2	336	LOW
CRANSTON	MESHANTICUT BROOK	R.I. PRINTWORKS POND	337	LOW
CRANSTON	MESHANTICUT BROOK	COLVIN POND	338	LOW
CRANSTON	MESHANTICUT BROOK	MESHANTICUT PARK POND	340	SIGNIFICANT
CRANSTON	MESHANTICUT BROOK	JUDGE FARM POND	461	LOW
CRANSTON	MESHANTICUT BROOK	BOY SCOUTS/RT 12	656	LOW
CRANSTON	MESHANTICUT BROOK	ARROW LAKE #1.5	658	LOW
CRANSTON	MESHANTICUT BROOK	CRANSTON COUNTRY CLUB #1	682	LOW
CRANSTON	MESHANTICUT BROOK	CRANSTON COUNTRY CLUB #2	683	LOW
CRANSTON	MESHANTICUT BROOK-TRIB	MARSELLA FARM POND	510	LOW
CRANSTON	PAWTUXET RIVER NORTH BRANCH-TRIB	CONFREDA	701	LOW
CRANSTON	POCASSET RIVER	CRANSTON PRINT WORKS POND	172	HIGH
CRANSTON	PRISON BROOK	STATE PRISON UPPER	305	LOW
CRANSTON/WARWICK	PAWRUXET RIVER	PETTACONSETT	303	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
CUMBERLAND	ABBOTT RUN	PAWTUCKET RESERVOIR	078	HIGH
CUMBERLAND	ABBOTT RUN	RAWSON POND	079	SIGNIFICANT
CUMBERLAND	ABBOTT RUN	HOWARD POND	080	LOW
CUMBERLAND	ABBOTT RUN	ROBIN HOLLOW POND	081	SIGNIFICANT
CUMBERLAND	ABBOTT RUN	HAPPY HOLLOW POND	082	SIGNIFICANT
CUMBERLAND	ABBOTT RUN	ARNOLD MILL POND	297	LOW
CUMBERLAND	ABBOTT RUN-TRIB	THORNLEY FARM POND	427	LOW
CUMBERLAND	BLACKSTONE RIVER-TRIB	LOUISE POSSE CMU	618	LOW
CUMBERLAND	BUNGAY BROOK	CARLS POND	616	LOW
CUMBERLAND	BUNGAY BROOK	RESURRECTION CEMETARY	620	LOW
CUMBERLAND	BURNT SWAMP BROOK	KER-ANNA POND	076	LOW
CUMBERLAND	BURNT SWAMP BROOK	DIAMOND HILL RESERVOIR	077	HIGH
CUMBERLAND	BURNT SWAMP BROOK	DUHALLOW POND	350	LOW
CUMBERLAND	CATAMINT BROOK	CATAMINT	756	LOW
CUMBERLAND	MISCOE BROOK	MISCOE LAKE	074	HIGH
CUMBERLAND	SCOTT BROOK	SCOTT LOWER	617	LOW
CUMBERLAND	SCOTT BROOK	SCOTT UPPER	619	LOW
CUMBERLAND / LINCOLN	BLACKSTONE RIVER	MANVILLE	059	LOW
CUMBERLAND / LINCOLN	BLACKSTONE RIVER	ALBION	060	LOW
CUMBERLAND / LINCOLN	BLACKSTONE RIVER	ASHTON	061	LOW
CUMBERLAND / LINCOLN	BLACKSTONE RIVER	PRATT	062	LOW
EAST GREENWICH	FRENCHTOWN BROOK	FRENCHTOWN PARK POND #1	557	LOW
EAST GREENWICH	FRENCHTOWN BROOK	FRENCHTOWN ROAD	673	LOW
EAST GREENWICH	FRENCHTOWN BROOK	WIGHTMANS CORNER	713	LOW
EAST GREENWICH	FRY BROOK	HANNAH FARM POND	492	LOW
EAST GREENWICH	FRY BROOK	KROIAN FARM POND	541	LOW
EAST GREENWICH	FRY BROOK	AMERICAN POWER CONVERSION	675	LOW
EAST GREENWICH	MASKERCHUGG RIVER	GREENWICH BLEACHERY POND	403	LOW
EAST GREENWICH	MASKERCHUGG RIVER	LAS BRISAS PARK POND	515	LOW
EAST GREENWICH	MASKERCHUGG RIVER	PAINE'S POND	589	LOW
EAST GREENWICH	MASKERCHUGG RIVER-WEST BRANCH	GALE FARM POND UPPER	432	SIGNIFICANT
EAST GREENWICH	MASKERCHUGG RIVER-WEST BRANCH	GALE FARM POND MIDDLE	484	LOW
EAST GREENWICH	MASKERCHUGG RIVER-WEST BRANCH	GALE FARM POND LOWER	672	LOW
EAST GREENWICH	MOWNEY BROOK	SCHOLEFIELD POND	488	LOW
EAST GREENWICH	MOWNEY BROOK	MIDDLE ROAD	674	LOW
EAST GREENWICH / NORTH KINGSTOWN	POTOWOMUT RIVER	OLD FORGE MILL POND	296	LOW
EAST PROVIDENCE	CENTRAL POND-TRIB	HASBRO	659	LOW
EAST PROVIDENCE	RUNNINS RIVER	STANDARD OIL POND	410	LOW
EAST PROVIDENCE	RUNNINS RIVER-TRIB	GATE OF HEAVEN CEMETARY	660	LOW
EAST PROVIDENCE	SEEKONK RIVER-TRIB	BUCKLIN POINT	446	HIGH
EAST PROVIDENCE	TEN MILE RIVER	CENTRAL POND	404	LOW
EAST PROVIDENCE	TEN MILE RIVER	HUNTS MILL POND	405	LOW
EAST PROVIDENCE	TEN MILE RIVER	OMEGA POND	406	LOW
EAST PROVIDENCE	TEN MILE RIVER	JAMES V TURNER RESERVOIR	407	HIGH
EAST PROVIDENCE	WILLETT BROOK	WILLETT POND UPPER	590	LOW
EAST PROVIDENCE	WILLETT BROOK	WILLETT POND LOWER	591	LOW
EXETER	BEAVER RIVER	JAMES POND	231	LOW
EXETER	BREAKHEART BROOK	BREAKHEART POND	214	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
EXETER	BREAKHEART BROOK	FROSTY HOLLOW POND	469	LOW
EXETER	CHIPUXET RIVER	SLOCUM RESERVOIR	239	HIGH
EXETER	CHIPUXET RIVER	YORKER MILL POND	240	HIGH
EXETER	CHIPUXET RIVER-TRIB	SLOCUM ROAD LOWER	711	LOW
EXETER	CONGDON RIVER	MONEY SWAMP POND	182	LOW
EXETER	CONGDON RIVER	MILLBROOK POND	188	LOW
EXETER	FISHERSVILLE BROOK	GRINNELL UPPER POND	241	LOW
EXETER	FISHERSVILLE BROOK	GRINNELL LOWER POND	242	LOW
EXETER	LOCKE BROOK	SHERMAN SHINGLE MILL POND	244	LOW
EXETER	LOCKE BROOK	GRINNELL'S SAWMILL POND	400	LOW
EXETER	LOCKE BROOK	METCALF WILDLIFE MARSH	527	HIGH
EXETER	LOCKE BROOK	SHERMAN SHINGLE MILL UPPER	716	LOW
EXETER	PARRISS BROOK	PRATT POND	205	LOW
EXETER	QUEEN RIVER	RODMAN SAWMILL POND	237	LOW
EXETER	QUEEN RIVER	EDWARD'S POND	238	SIGNIFICANT
EXETER	QUEEN RIVER	EXETER COUNTRY CLUB	714	LOW
EXETER	QUEEN RIVER	WILLIAM REYNOLDS ROAD POND	715	LOW
EXETER	QUEEN RIVER	NEW ROAD POND	755	LOW
EXETER	QUEEN RIVER-TRIB	WARWICK SPORTSMEN'S ASSOC. POND	448	LOW
EXETER	RAKE FACTORY BROOK	GAVITT	726	LOW
EXETER	RAKE FACTORY BROOK	STINKY	741	LOW
EXETER	ROARING BROOK	AUSTIN FARM POND	218	LOW
EXETER	ROARING BROOK	BOONE LAKE	219	HIGH
EXETER	ROARING BROOK	BARBERVILLE MILL POND	220	LOW
EXETER	ROARING BROOK	BROWNING MILL POND	221	HIGH
EXETER	ROARING BROOK	AUSTIN UPPER POND	382	HIGH
EXETER	ROARING BROOK	BARBERVILLE MILL LOWER	603	LOW
EXETER	ROARING BROOK	BROWNING MILL BYPASS POND	722	LOW
EXETER	SODOM BROOK	DOLLY POND	243	LOW
EXETER	SODOM BROOK	HALLVILLE POND	571	LOW
EXETER	SODOM BROOK	SODOM TRAIL LOWER	719	LOW
EXETER	SODOM BROOK	SCREAMING WOMAN POND	748	LOW
EXETER	WOODY HILL BROOK	DEXTER POND	208	LOW
EXETER	WOODY HILL BROOK	MT. TOM WILDLIFE MARSH	532	LOW
FOSTER	DOLLY BROOK	LILY POND	356	LOW
FOSTER	DOLLY COLE BROOK	CRANSTON FISH & GAME ASSOC. POND	358	LOW
FOSTER	DOLLY COLE BROOK-TRIB	HOPKINS AXE FACTORY POND	357	LOW
FOSTER	HEMLOCK BROOK	SPEAR POND	349	HIGH
FOSTER	HEMLOCK BROOK	GORHAM FARM POND	507	LOW
FOSTER	HEMLOCK BROOK	SALISBURY ROAD POND	641	LOW
FOSTER	MOOSUP RIVER	CLARK POND	642	LOW
FOSTER	MOOSUP RIVER-TRIB	MANTON SPORTSMEN'S CLUB POND	453	LOW
FOSTER	MOOSUP RIVER-TRIB	HARRINGTON FARM POND	489	LOW
FOSTER	MOOSUP RIVER-TRIB	GORHAM, N. FARM POND	526	SIGNIFICANT
FOSTER	MOOSUP RIVER-TRIB	PORTER POND	564	LOW
FOSTER	MOOSUP RIVER-TRIB	NORTH ROAD POND	640	LOW
FOSTER	MOOSUP RIVER-TRIB	MOOSUP VALLEY POND	690	LOW
FOSTER	MOOSUP RIVER-TRIB	JOHNSON ROAD POND	691	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
FOSTER	MOOSUP RIVER-TRIB	FOSTER COUNTRY CLUB	692	LOW
FOSTER	PAINE BROOK	HUTCHINSON POND	348	LOW
FOSTER	PAINE BROOK-TRIB	SPENCER FARM POND #1	502	LOW
FOSTER	PONAGANSET RIVER	HOPKINS MILL POND	180	LOW
FOSTER	PONAGANSET RIVER-TRIB	SPENCER FARM POND #2	518	LOW
FOSTER	QUADUCK BROOK-TRIB	KNOWLES FARM POND	459	LOW
FOSTER	QUADUCK BROOK-TRIB	CUCUMBER HILL ROAD	639	LOW
FOSTER	SHIPPEE BROOK	YOUNG'S POND	347	LOW
FOSTER	TURKEY MEADOW BROOK	HEBERT FARM POND	522	LOW
FOSTER	WEST MEADOW BROOK-TRIB	BASSETT FARM POND	478	LOW
FOSTER	WESTCONNAUG BROOK	WESTCONNAUG RESERVOIR	163	HIGH
FOSTER	WILBUR HOLLOW BROOK-TRIB	HAWKINS FARM POND	516	LOW
FOSTER / SCITUATE	DOLLY COLE BROOK	BRUSH MEADOW POND	355	LOW
GLOCESTER	BRANDY BROOK	BURLINGAME RESERVOIR LOWER	017	LOW
GLOCESTER	BRANDY BROOK	BURLINGAME RESERVOIR UPPER	018	HIGH
GLOCESTER	BRANDY BROOK	SWEET'S MILL POND	019	LOW
GLOCESTER	CADY BROOK	DURFEE HILL WILDLIFE MARSH #2	499	SIGNIFICANT
GLOCESTER	CADY BROOK	MOWRY MEADOW	600	LOW
GLOCESTER	CADY BROOK	WHITES POND	636	LOW
GLOCESTER	CADY BROOK-TRIB	DURFEE HILL UPPER	601	LOW
GLOCESTER	CADY BROOK-TRIB	DURFEE HILL LOWER	602	LOW
GLOCESTER	CADY BROOK-TRIB	ANDREWS POND	750	LOW
GLOCESTER	CHEPACHET RIVER	CHERRY VALLEY POND	021	SIGNIFICANT
GLOCESTER	CHEPACHET RIVER	KEECH POND	022	HIGH
GLOCESTER	CHEPACHET RIVER	SMITH + SAYLES RESERVOIR	023	SIGNIFICANT
GLOCESTER	CHEPACHET RIVER	MOWRY POND	025	LOW
GLOCESTER	CHEPACHET RIVER	VALENTINE MILL POND	026	LOW
GLOCESTER	CHEPACHET RIVER	STEEER'S POND LOWER	033	LOW
GLOCESTER	CHEPACHET RIVER-TRIB	WRIGHT, T. FARM POND	587	SIGNIFICANT
GLOCESTER	HANNAH BROOK	PONAGANSET SCHOOL POND	637	LOW
GLOCESTER	MARY BROWN BROOK	LAKE WASHINGTON	401	HIGH
GLOCESTER	MARY BROWN BROOK	HAWKINS POND	555	HIGH
GLOCESTER	MARY BROWN BROOK	CLARKVILLE POND	556	HIGH
GLOCESTER	MARY BROWN BROOK	BOWDISH RESERVOIR	566	HIGH
GLOCESTER	MARY BROWN BROOK	BOWDISH LOWER	727	HIGH
GLOCESTER	MARY BROWN BROOK	ROUTE 44 POND	759	LOW
GLOCESTER	MOSQUITOHAWK BROOK-TRIB	LAKE ALDRSGATE	514	SIGNIFICANT
GLOCESTER	PAINE BROOK	MOWRY-PAINE POND	052	LOW
GLOCESTER	PECKHAM BROOK	PECKHAM POND #1	383	LOW
GLOCESTER	PECKHAM BROOK	PECKHAM POND #2	384	LOW
GLOCESTER	PECKHAM BROOK	PECKHAM POND #3	385	LOW
GLOCESTER	PECKHAM BROOK	PECKHAM POND #4	386	LOW
GLOCESTER	PECKHAM BROOK-TRIB	PECKHAM POND #5	387	LOW
GLOCESTER	PEEPTOAD BROOK	SANDY BROOK POND #1	352	LOW
GLOCESTER	PEEPTOAD BROOK	SANDY BROOK POND #2	353	LOW
GLOCESTER	PEEPTOAD BROOK	COOMER LAKE	354	SIGNIFICANT
GLOCESTER	PONAGANSET RESERVOIR-TRIB	TIN SHACK	725	LOW
GLOCESTER	PONAGANSET RIVER	PONAGANSET RESERVOIR	165	HIGH

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
GLOCESTER	SAUNDERS BROOK-TRIB	O'REILLY POND	398	LOW
GLOCESTER	SHADY OAK BROOK	FACTORY MUTUAL RESEARCH CTR UPPER POND	392	LOW
GLOCESTER	SHADY OAK BROOK	FACTORY MUTUAL RESEARCH CTR LOWER POND	707	LOW
GLOCESTER	SPRING GROVE BROOK	MOWER POND	029	SIGNIFICANT
GLOCESTER	SPRING GROVE BROOK	OLD MILL POND	031	LOW
GLOCESTER	SPRING GROVE BROOK	SNAKESKIN POND	032	SIGNIFICANT
GLOCESTER	SPRING GROVE BROOK	DAVID KING FARM POND	594	SIGNIFICANT
GLOCESTER	SPRING GROVE BROOK	LEE DRIVE POND	635	LOW
GLOCESTER	SPRING GROVE BROOK-TRIB	NEW POND	397	LOW
GLOCESTER	SPRING GROVE BROOK-TRIB	DAVIS FARM POND	434	LOW
GLOCESTER	STINGO BROOK-TRIB	SHINGLE MILL POND UPPER	024	LOW
GLOCESTER	SUCKER BROOK	STEEER'S SAWMILL POND	028	LOW
GLOCESTER	SUCKER BROOK	SPRING GROVE POND	030	LOW
GLOCESTER	SUCKER BROOK	SUCKER BROOK BRIDGE POND	381	SIGNIFICANT
GLOCESTER	TARKILN BROOK-TRIB	THOMPSON POND	414	LOW
GLOCESTER	WINDSOR BROOK	MANN POND	442	LOW
GLOCESTER / SMITHFIELD	STILLWATER RIVER	WATERMAN LAKE	111	HIGH
HOPKINTON	ASHAWAY RIVER	BETHEL POND	264	LOW
HOPKINTON	ASHAWAY RIVER	ASHAWAY MILL POND	265	LOW
HOPKINTON	ASHAWAY RIVER	ASHAWAY LINE POND	266	LOW
HOPKINTON	ASHAWAY RIVER-TRIB	COTTRELL FARM POND	430	LOW
HOPKINTON	ASHAWAY RIVER-TRIB	MAPLE LAWN FARM POND	472	LOW
HOPKINTON	BLUE POND BROOK	ASHVILLE POND	227	SIGNIFICANT
HOPKINTON	BLUE POND BROOK	LOWER MILL POND	228	LOW
HOPKINTON	BLUE POND BROOK	BLUE POND	229	SIGNIFICANT
HOPKINTON	BLUE POND BROOK	LONG POND	287	LOW
HOPKINTON	BLUE POND BROOK	UNION POND	288	LOW
HOPKINTON	BLUE POND BROOK-TRIB	SILLMAN WILDLIFE MARSH	530	LOW
HOPKINTON	BRUSHY BROOK	LOCUSTVILLE POND	262	HIGH
HOPKINTON	BRUSHY BROOK-TRIB	LANGWORTHY POND	285	SIGNIFICANT
HOPKINTON	CANONCHET BROOK	LINEWALK POND	275	LOW
HOPKINTON	CANONCHET BROOK-TRIB	HOXIE FARM POND	440	SIGNIFICANT
HOPKINTON	GLADE BROOK-TRIB	LABRECQUE FARM POND	508	LOW
HOPKINTON	GLADE BROOK-TRIB	ASHAWAY SPORTSMAN'S CLUB MARSH	560	LOW
HOPKINTON	KNAPP BROOK	KNAPP POND	276	LOW
HOPKINTON	MOSCOW BROOK	MOSCOW POND	222	LOW
HOPKINTON	MOSCOW BROOK	CENTERVILLE POND	223	LOW
HOPKINTON	MOSCOW BROOK	ROCKVILLE POND	224	LOW
HOPKINTON	MOSCOW BROOK	WINCHECK POND	225	SIGNIFICANT
HOPKINTON	MOSCOW BROOK	PINEDALE MILL POND	286	LOW
HOPKINTON	MOSCOW BROOK	SPRING STREET POND	721	LOW
HOPKINTON	PARMENTER BROOK	SMITH'S ICE POND	272	LOW
HOPKINTON	PAWCATUCK RIVER	POTTER HILL	254	LOW
HOPKINTON	ROARING BROOK	ARCADIA MILL LOWER	402	LOW
HOPKINTON	TOMAUQUAG BROOK	VEILED OUTLET	724	LOW
HOPKINTON	TOMAUQUAG BROOK-TRIB	HARRIS POND	274	SIGNIFICANT
HOPKINTON	TOMAUQUAG BROOK-TRIB	JAMES FARM POND	494	LOW
HOPKINTON	TOMAUQUAG BROOK-TRIB	LEWIS, DONALD WILDLIFE MARSH	533	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
HOPKINTON	WINCHECK BROOK	YAWGOOG POND	226	HIGH
HOPKINTON	WINCHECK POND-TRIB	GRASSY POND	289	LOW
HOPKINTON	WOOD RIVER	WYOMING POND LOWER	217	LOW
HOPKINTON / RICHMOND	WOOD RIVER	BARBERVILLE POND	215	SIGNIFICANT
HOPKINTON / RICHMOND	WOOD RIVER	WYOMING UPPER	216	HIGH
HOPKINTON / RICHMOND	WOOD RIVER	HOPE VALLEY MILL POND	245	LOW
HOPKINTON / RICHMOND	WOOD RIVER	ALTON POND	247	SIGNIFICANT
HOPKINTON / RICHMONE	WOOD RIVER	WOODVILLE POND	246	LOW
HOPKINTON / WESTERLY	PAWCATUCK RIVER	BRADFORD POND	253	LOW
JAMESTOWN	JAMESTOWN BROOK	JAMESTOWN RESERVOIR	574	SIGNIFICANT
JAMESTOWN	JAMESTOWN BROOK	JAMESTOWN LOWER RESERVOIR	575	SIGNIFICANT
JAMESTOWN	JAMESTOWN BROOK	RAINBOW UPPER	651	LOW
JAMESTOWN	JAMESTOWN BROOK	RAINBOW LOWER	652	LOW
JAMESTOWN	UNNAMED	TEFFT POND	738	LOW
JAMESTOWN	UNNAMED	W REACH DRIVE POND	739	LOW
JOHNSTON	ASSAPUMPSET BROOK	BELKNAP POND	127	SIGNIFICANT
JOHNSTON	ASSAPUMPSET BROOK	CAESARVILLE POND	323	SIGNIFICANT
JOHNSTON	CEDAR SWAMP BROOK	SIMMONS UPPER RESERVOIR	170	HIGH
JOHNSTON	CEDAR SWAMP BROOK	SIMMONS LOWER RESERVOIR	171	HIGH
JOHNSTON	DRY BROOK	OAK SWAMP RESERVOIR	168	HIGH
JOHNSTON	DRY BROOK	ALMY RESERVOIR	169	HIGH
JOHNSTON	DRY BROOK	HUGHESDALE POND LOWER	312	LOW
JOHNSTON	DRY BROOK	HUGHESDALE POND UPPER	313	HIGH
JOHNSTON	MOSWANSICUT BROOK	KIMBALL RESERVOIR	346	SIGNIFICANT
JOHNSTON	POCASSET RIVER	POCASSET POND	310	SIGNIFICANT
JOHNSTON	POCASSET RIVER	BROWN SAWMILL POND	311	LOW
JOHNSTON	POCASSET RIVER	MEMORIAL PARK POND	422	LOW
JOHNSTON	POCASSET RIVER	POCASSET UPPER	647	LOW
JOHNSTON	POCASSET RIVER-TRIB	SAMPSON-ALMY POND	307	LOW
JOHNSTON	POCASSET RIVER-TRIB	DEXTER FARM POND	504	SIGNIFICANT
JOHNSTON	REAPER BROOK	STAMP FARM POND	523	LOW
JOHNSTON	SIMMONS BROOK	PIERCE UPPER	314	LOW
JOHNSTON	SIMMONS BROOK	PIERCE POND LOWER	315	LOW
JOHNSTON	SIMMONS BROOK	CHAPEL MILL	316	LOW
JOHNSTON	SIMMONS BROOK	VICTORIA MILL	317	LOW
JOHNSTON	SIMMONS BROOK	PRISCILLA WORSTED	319	LOW
JOHNSTON / NORTH PROVIDENCE	WOONASQUATUCKET RIVER	GREYSTONE	131	LOW
JOHNSTON / NORTH PROVIDENCE	WOONASQUATUCKET RIVER	LYMANSVILLE	134	LOW
JOHNSTON / PROVIDENCE	WOONASQUATUCKET RIVER	MANTON MILL POND	135	LOW
LINCOLN	HANDY BROOK	HANDY POND LOWER	390	LOW
LINCOLN	HANDY BROOK	HANDY POND UPPER	391	HIGH
LINCOLN	MOSHASSUCK RIVER	BUTTERFLY POND	097	HIGH
LINCOLN	MOSHASSUCK RIVER	PEACE POND	098	LOW
LINCOLN	MOSHASSUCK RIVER	MOFFETT POND	099	HIGH
LINCOLN	MOSHASSUCK RIVER	BARNEY POND	101	HIGH
LINCOLN	MOSHASSUCK RIVER	BLEACHERY POND	104	HIGH
LINCOLN	MOSHASSUCK RIVER	LIMEROCK RESERVOIR	295	HIGH
LINCOLN	MOSHASSUCK RIVER	OLD LOUISQUISSET ROAD POND	653	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
LINCOLN	MOSHASSUCK RIVER-TRIB	GOLDFISH POND	100	LOW
LINCOLN	MOSHASSUCK RIVER-TRIB	BRIDLEWOOD POND	408	HIGH
LINCOLN	MOSHASSUCK RIVER-TRIB	BRIDLEWOOD UPPER END	649	HIGH
LINCOLN	MUSSEY BROOK	MEADER POND	086	LOW
LINCOLN	MUSSEY BROOK	MEMORIAL PARK	465	LOW
LINCOLN	THREADMILL BROOK	OLNEY POND	102	HIGH
LINCOLN	THREADMILL BROOK	LINCOLN WOODS CIRCULATION	607	LOW
LINCOLN	WEST RIVER-TRIB	CCRI UPPER	625	LOW
LINCOLN	WEST RIVER-TRIB	CCRI LOWER	626	LOW
LINCOLN	WEST RIVER-TRIB	LINCOLN DOWNS	627	LOW
LINCOLN / NORTH SMITHFIELD	CROOKFALL BROOK	WOONSOCKET RESERVOIR # 1	070	HIGH
LITTLE COMPTON	ADAMSVILLE BROOK	ADAMSVILLE POND	746	SIGNIFICANT
LITTLE COMPTON	COLD BROOK	SIMMONS POND	474	SIGNIFICANT
LITTLE COMPTON	COLD BROOK	SIMMONS #2	609	LOW
LITTLE COMPTON	COLD BROOK	SIMMONS #3	610	LOW
LITTLE COMPTON	COLD BROOK	SIMMONS #4	611	LOW
LITTLE COMPTON	COLD BROOK	SIMMONS #5	612	LOW
LITTLE COMPTON	COLD BROOK	SIMMONS #6	613	LOW
LITTLE COMPTON	COLD BROOK	SIMMONS #7	614	LOW
LITTLE COMPTON	LONG POND-TRIB	SAKONNET GOLF COURSE WATERING HOLE	747	LOW
LITTLE COMPTON	PACHET BROOK	WATSON, HAROLD E, RESERVOIR	485	HIGH
LITTLE COMPTON	UNNAMED STREAM	SHERER POND	483	LOW
MIDDLETOWN	BAILEY BROOK	EASTON POND NORTH	584	HIGH
MIDDLETOWN	EAST PASSAGE-TRIB	PRESCOTT FARM	740	LOW
MIDDLETOWN	LITTLE CREEK	NEWPORT MEMORIAL CEMETARY	751	LOW
MIDDLETOWN	MAIDFORD BROOK	GARDINER POND	583	HIGH
MIDDLETOWN	PARADISE BROOK	NELSON POND	582	HIGH
MIDDLETOWN	UNNAMED STREAM	WANUMETONOMY POND	475	LOW
NARRAGANSETT	CROOKED BROOK	CROOKED BROOK POND	509	LOW
NARRAGANSETT	CROOKED BROOK-TRIB	SPRAGUE POND LOWER	732	LOW
NARRAGANSETT	CROOKED BROOK-TRIB	SPRAGUE POND	733	SIGNIFICANT
NARRAGANSETT	DEAD MAN BROOK	MAINELLI FARM POND	545	LOW
NARRAGANSETT	PETTAQUAMSQUITT RIVER-TRIB	CRYING BOG	757	LOW
NEW SHOREHAM	MILL TAIL BROOK	BLOCK ISLAND ROD & GUN CLUB POND	424	SIGNIFICANT
NEW SHOREHAM	MILL TAIL BROOK	MILL	765	SIGNIFICANT
NEWPORT / MIDDLETOWN	BAILEY BROOK	EASTON POND SOUTH	585	HIGH
NORTH KINGSTOWN	ANNAQUATUCKET RIVER	HAMILTON RESERVOIR DAM	550	SIGNIFICANT
NORTH KINGSTOWN	ANNAQUATUCKET RIVER	BELLEVILLE POND	553	SIGNIFICANT
NORTH KINGSTOWN	ANNAQUATUCKET RIVER	RODMAN MILL	615	HIGH
NORTH KINGSTOWN	ANNAQUATUCKET RIVER	SIERSTORPFF	706	LOW
NORTH KINGSTOWN	ANNAQUATUCKET RIVER-TRIB	SECRET LAKE	704	SIGNIFICANT
NORTH KINGSTOWN	ANNAQUATUCKET RIVER-TRIB	SECRET LAKE LOWER	705	LOW
NORTH KINGSTOWN	ANNAQUATUCKET RIVER-TRIB	KETTLE HOLE	709	LOW
NORTH KINGSTOWN	CHIPUXET RIVER-TRIB	SLOCUM WOODS	693	HIGH
NORTH KINGSTOWN	CHIPUXET RIVER-TRIB	SLOCUM ROAD UPPER	710	HIGH
NORTH KINGSTOWN	DUCK COVE BROOK-TRIB	MILL POND	536	LOW
NORTH KINGSTOWN	MATTATUXET RIVER	SILVER SPRING LAKE	444	HIGH
NORTH KINGSTOWN	MATTATUXET RIVER	CARR POND	513	HIGH

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
NORTH KINGSTOWN	MATTATUXET RIVER	SHADY LEA MILL	708	HIGH
NORTH KINGSTOWN	MATTATUXET RIVER-TRIB	BALD HILL NURSERY POND	497	LOW
NORTH KINGSTOWN	PETTAQUAMSCUTT RIVER-TRIB	MAYO FARM POND	439	LOW
NORTH KINGSTOWN	POTOWOMUT RIVER	POTOWOMUT POND	551	LOW
NORTH KINGSTOWN	SAND HILL BROOK	TAYLOR POND	552	LOW
NORTH KINGSTOWN	SAND HILL BROOK	DAVISVILLE MILL POND	569	LOW
NORTH KINGSTOWN	SAND HILL BROOK	SANDHILL	703	LOW
NORTH KINGSTOWN	SOLVER SPRING LAKE-TRIB	PENDAR ROAD	712	LOW
NORTH KINGSTOWN	WANNACHECOME CUT BROOK	WERTZ + VIAL POND	471	LOW
NORTH PROVIDENCE	SHIPPEE BROOK	SHIPPEE POND	095	LOW
NORTH PROVIDENCE	WEST RIVER	WENSCOTT RESERVOIR	084	HIGH
NORTH PROVIDENCE	WEST RIVER	GENEVA SPORTSMEN'S CLUB POND	085	LOW
NORTH PROVIDENCE	WEST RIVER	DOUGLAS TERRACE POND	654	LOW
NORTH PROVIDENCE	WEST RIVER-TRIB	LOUISQUISSET FLOOD CONTROL	760	HIGH
NORTH PROVIDENCE	WOONASQUATUCKET RIVER	ALLENDALE POND	133	LOW
NORTH PROVIDENCE / JOHNSTON	WOONASQUATUCKET RIVER	CENTREDALE	132	LOW
NORTH SMITHFIELD	BRANCH RIVER	SLATERSVILLE RESERVOIR UPPER	043	HIGH
NORTH SMITHFIELD	BRANCH RIVER	SLATERSVILLE UPPER TRENCH RETURN NO. 1	044	LOW
NORTH SMITHFIELD	BRANCH RIVER	SLATERSVILLE UPPER INTERMEDIATE	045	LOW
NORTH SMITHFIELD	BRANCH RIVER	SLATERSVILLE RESERVOIR MIDDLE	046	HIGH
NORTH SMITHFIELD	BRANCH RIVER	SLATERSVILLE RESERVOIR LOWER	047	SIGNIFICANT
NORTH SMITHFIELD	BRANCH RIVER	FORESTDALE POND	048	HIGH
NORTH SMITHFIELD	CHERRY BROOK	TODD'S POND	067	SIGNIFICANT
NORTH SMITHFIELD	DAWLEY BROOK	PRATT POND	055	LOW
NORTH SMITHFIELD	RANKIN BROOK	WINSOR FARM POND	491	LOW
NORTH SMITHFIELD	RANKIN BROOK	KAREN MARIE DRIVE POND	632	LOW
NORTH SMITHFIELD	TROUT BROOK	O'HARA POND	053	LOW
NORTH SMITHFIELD	TROUT BROOK	FLY & FISH CLUB	416	LOW
NORTH SMITHFIELD	TROUT BROOK	FORT FARM POND #1	539	LOW
NORTH SMITHFIELD	TROUT BROOK	BOURGET COURT POND	631	LOW
NORTH SMITHFIELD	UNNAMED STREAM	CHESTER ST. POND	599	LOW
NORTH SMITHFIELD	WOONASQUATUCKET RIVER	PRIMROSE POND LOWER	107	LOW
NORTH SMITHFIELD	WOONASQUATUCKET RIVER	MINGOLA POND	417	LOW
NORTH SMITHFIELD	WOONASQUATUCKET RIVER	CESARIO POND	418	LOW
NORTH SMITHFIELD	WOONASQUATUCKET RIVER	GARDNER FARM POND	460	LOW
NORTH SMITHFIELD / SMITHFIELD	CROOKFALL BROOK	WOONSOCKET RESERVOIR # 3	068	HIGH
PAWTUCKET	BLACKSTONE RIVER	PAWTUCKET UPPER	065	LOW
PAWTUCKET	BLACKSTONE RIVER	PAWTUCKET LOWER	066	LOW
PAWTUCKET	TEN MILE RIVER	LEBANON MILL	293	LOW
PAWTUCKET	TEN MILE RIVER	TEN MILE RESERVATION	294	LOW
PAWTUCKET	TEN MILE RIVER	SLATER PARK	702	LOW
PORTSMOUTH	BARKER BROOK	PORTSMOUTH ABBEY POND	546	LOW
PORTSMOUTH	EAST PASSAGE-TRIB	MELVILLE #1	761	SIGNIFICANT
PORTSMOUTH	EAST PASSAGE-TRIB	MELVILLE #2	762	LOW
PORTSMOUTH	EAST PASSAGE-TRIB	MELVILLE #3	763	LOW
PORTSMOUTH	LAWTON VALLEY BROOK	LAWTON VALLEY RESERVOIR	395	HIGH
PORTSMOUTH	LAWTON VALLEY BROOK	SISSON POND	580	HIGH
PORTSMOUTH	LAWTON VALLEY BROOK	ST MARYS POND	581	HIGH

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
PORTSMOUTH	UNNAMED STREAM	HIRSCH FARM POND	438	LOW
PROVIDENCE	MASHAPPAUG BROOK	MASHAPPAUG POND	174	LOW
PROVIDENCE	MASHAPPAUG BROOK	CUNLIFF POND	300	SIGNIFICANT
PROVIDENCE	MOSHASSUCK RIVER	AMERICAN SCREW	106	LOW
PROVIDENCE	WEST RIVER	GENEVA POND	089	SIGNIFICANT
PROVIDENCE	WEST RIVER	WHIPPLE POND	090	LOW
PROVIDENCE	WEST RIVER	WANSKUCK POND	091	LOW
PROVIDENCE	WEST RIVER	LEONARD	092	LOW
PROVIDENCE	WEST RIVER	CANADA LOWER POND	094	LOW
PROVIDENCE	WEST RIVER-TRIB	CANADA UPPER POND	093	SIGNIFICANT
PROVIDENCE	WOONASQUATUCKET RIVER	ATLANTIC MILLS POND	138	LOW
PROVIDENCE	WOONASQUATUCKET RIVER	PARAGON POND	139	LOW
PROVIDENCE	WOONASQUATUCKET RIVER	RISING SUN POND	140	LOW
PROVIDENCE / JOHNSTON	WOONASQUATUCKET RIVER	DYERVILLE	136	LOW
RICHMOND	BEAVER RIVER	DECAPPETT POND	230	LOW
RICHMOND	BEAVER RIVER	TUG HOLLOW POND	232	LOW
RICHMOND	BEAVER RIVER-TRIB	TUG HOLLOW ROAD POND	718	LOW
RICHMOND	DIAMOND BROOK	HABEREK FARM POND	458	LOW
RICHMOND	DIAMOND BROOK	CAROLINA TROUT POND	476	LOW
RICHMOND	MEADOW BROOK	WOOD RIVER JUNCTION	273	SIGNIFICANT
RICHMOND	UNNAMED	BAILEY	717	LOW
RICHMOND	WHITE BROOK	LILLIBRIDGE POND	259	LOW
RICHMOND	WHITE BROOK	WHITE'S POND	261	HIGH
RICHMOND	WHITE BROOK	TANNER POND	280	LOW
RICHMOND	WHITE BROOK	DUCK POND	466	LOW
RICHMOND	WHITE BROOK-TRIB	WELLS POND	260	LOW
SCITUATE	BRANDY BROOK	PINE SWAMP RESERVOIR #1	361	SIGNIFICANT
SCITUATE	BRANDY BROOK	DUCK POND	363	LOW
SCITUATE	BRANDY BROOK	MATHEWSON POND	364	LOW
SCITUATE	BRANDY BROOK	SHOESTRING MILL	648	SIGNIFICANT
SCITUATE	BRANDY BROOK	SAUNDERSVILLE	754	LOW
SCITUATE	COLVIN BROOK-TRIB	KEEBLER FARM POND	542	LOW
SCITUATE	CORK BROOK	SUDDARD LANE POND	643	LOW
SCITUATE	KENT BROOK	BETTY	657	LOW
SCITUATE	KING BROOK	KING POND	367	LOW
SCITUATE	MOSWANSICUT BROOK	MOSWANSICUT POND	162	SIGNIFICANT
SCITUATE	PAWTUXET RIVER	FISKEVILLE	192	LOW
SCITUATE	PAWTUXET RIVER-NORTH BRANCH	HOPE	160	SIGNIFICANT
SCITUATE	PAWTUXET RIVER-NORTH BRANCH	GAINER MEMORIAL	161	HIGH
SCITUATE	PAWTUXET RIVER-NORTH BRANCH	HORSESHOE	360	SIGNIFICANT
SCITUATE	PONAGANSET RIVER	BARDEN RESERVOIR	164	SIGNIFICANT
SCITUATE	RUSH BROOK	TEDDY DEXTER	650	LOW
SCITUATE	SCITUATE RESERVOIR-TRIB	THEATER POND	646	LOW
SCITUATE	SPRUCE BROOK	FOUR CORNERS	644	LOW
SCITUATE	UNNAMED STREAM	PINE SWAMP RESERVOIR #2 (AUX TO #1)	362	LOW
SCITUATE	WESTCONNAUG BROOK	PEABODY RESERVOIR LOWER	344	LOW
SCITUATE	WESTCONNAUG BROOK	JORDAN POND	345	SIGNIFICANT
SCITUATE	WILBUR HOLLOW BROOK	BURTON POND	329	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
SCITUATE	WILBUR HOLLOW BROOK	POTTERVILLE POND	330	LOW
SCITUATE	WILBUR HOLLOW BROOK	POTTER POND	331	LOW
SCITUATE	WILBUR HOLLOW BROOK	ABNER'S POND	332	LOW
SCITUATE	WILBUR HOLLOW BROOK-TRIB	PECK FARM POND	511	LOW
SMITHFIELD	HARRIS BROOK	HARRIS POND	142	LOW
SMITHFIELD	HAWKINS BROOK	SEBILLE POND	119	LOW
SMITHFIELD	NINE FOOT BROOK	JIM EVANS ROAD POND	737	LOW
SMITHFIELD	REAPER BROOK	GRANITE MILL POND	122	LOW
SMITHFIELD	REAPER BROOK	HAWKINS POND	123	SIGNIFICANT
SMITHFIELD	REAPER BROOK	REAPER POND	124	LOW
SMITHFIELD	REAPER BROOK	MOUNTAINDALE RESERVOIR	125	LOW
SMITHFIELD	SLACK RESERVOIR BROOK	HOPKINS POND	116	HIGH
SMITHFIELD	SLACK RESERVOIR BROOK	MOWRY POND	117	LOW
SMITHFIELD	STILLWATER RIVER	GREENVILLE MILL POND	112	LOW
SMITHFIELD	STILLWATER RIVER	KNIGHT MILL POND	113	LOW
SMITHFIELD	STILLWATER RIVER	STILLWATER MILL POND	114	LOW
SMITHFIELD	STILLWATER RIVER-TRIB	SLACK RESERVOIR	115	HIGH
SMITHFIELD	STILLWATER RIVER-TRIB	SPRAGUE UPPER RESERVOIR	120	HIGH
SMITHFIELD	STILLWATER RIVER-TRIB	SPRAGUE LOWER RESERVOIR	121	HIGH
SMITHFIELD	STILLWATER RIVER-TRIB	CONNETTI FARM POND	435	LOW
SMITHFIELD	STILLWATER RIVER-TRIB	LOCKWOOD FARM POND	456	LOW
SMITHFIELD	STILLWATER RIVER-TRIB	ADLER'S FARM POND #1	520	LOW
SMITHFIELD	WEST RIVER	GOULD POND	096	LOW
SMITHFIELD	WOONASQUATUCKET RIVER	STILLWATER RESERVOIR	108	HIGH
SMITHFIELD	WOONASQUATUCKET RIVER	STILLWATER POND	109	SIGNIFICANT
SMITHFIELD	WOONASQUATUCKET RIVER	CAPRON POND	110	LOW
SMITHFIELD	WOONASQUATUCKET RIVER	GEORGIAVILLE POND	126	HIGH
SMITHFIELD	WOONASQUATUCKET RIVER	ESMOND MILL UPPER POND	128	LOW
SMITHFIELD	WOONASQUATUCKET RIVER	ESMOND MILL MIDDLE POND	129	LOW
SMITHFIELD	WOONASQUATUCKET RIVER	ESMOND MILL LOWER POND	130	LOW
SMITHFIELD	WOONASQUATUCKET RIVER-TRIB	COMSTOCK FARM POND	428	LOW
SMITHFIELD	WOONASQUATUCKET RIVER-TRIB	CONNER FARM POND	451	LOW
SMITHFIELD	WOONASQUATUCKET RIVER-TRIB	GOULDS	628	LOW
SMITHFIELD	WOONASQUATUCKET RIVER-TRIB	WOLF HILL ROAD POND	629	LOW
SOUTH KINGSTOWN	BREAKHEART BROOK	SWAMPY	731	LOW
SOUTH KINGSTOWN	CHICKSHEEN BROOK	YAWGOO POND	290	LOW
SOUTH KINGSTOWN	GENESEE BROOK	SHERMAN FARM	588	LOW
SOUTH KINGSTOWN	GLEN ROCK BROOK	GLEN ROCK LOWER POND	233	LOW
SOUTH KINGSTOWN	GLEN ROCK BROOK	GLEN ROCK MIDDLE POND	234	LOW
SOUTH KINGSTOWN	GLEN ROCK BROOK	GLEN ROCK UPPER POND	235	LOW
SOUTH KINGSTOWN	GREEN HILL POND-TRIB	FACTORY POND	728	LOW
SOUTH KINGSTOWN	GREEN HILL POND-TRIB	PARTY SHACK POND	729	LOW
SOUTH KINGSTOWN	INDIAN RUN	INDIAN RUN	573	SIGNIFICANT
SOUTH KINGSTOWN	PAWCATUCK RIVER	GREAT SWAMP GOOSE MARSH	531	LOW
SOUTH KINGSTOWN	ROCKY BROOK	WILD LIFE MARSH	521	LOW
SOUTH KINGSTOWN	ROCKY BROOK	HEFLER FARM POND	525	HIGH
SOUTH KINGSTOWN	ROCKY BROOK	ASA POND	549	HIGH
SOUTH KINGSTOWN	ROCKY BROOK	PEACEDALE RESERVOIR	578	LOW

2008 Annual Dam Safety Report - Attachment

CITY/TOWN	RIVER/STREAM	DAM NAME	STATE ID	HAZARD
SOUTH KINGSTOWN	ROCKY BROOK	ROCKY BROOK RESERVOIR	579	SIGNIFICANT
SOUTH KINGSTOWN	SAUGATUCKET RIVER	WAKEFIELD POND	425	HIGH
SOUTH KINGSTOWN	SAUGATUCKET RIVER	PEACE DALE POND	426	HIGH
SOUTH KINGSTOWN	SAUGATUCKET RIVER	INDIAN LAKE	537	LOW
SOUTH KINGSTOWN	SAUGATUCKET RIVER	MOOREFIELD	730	LOW
SOUTH KINGSTOWN	UNNAMED STREAM	KENYON FARM POND	449	LOW
SOUTH KINGSTOWN	USQUEPAUG RIVER	GLEN ROCK RESERVOIR	236	LOW
SOUTH KINGSTOWN	USQUEPAUG RIVER	CONGDON FARM POND	447	LOW
SOUTH KINGSTOWN	USQUEPAUG RIVER	HIDDEN OUTLET	723	LOW
SOUTH KINGSTOWN	WHITE HORN BROOK	BISCUIT CITY POND	278	LOW
TIVERTON	ADAMSVILLE BROOK	MILL POND	467	SIGNIFICANT
TIVERTON	BORDEN BROOK	NONQUIT POND	396	SIGNIFICANT
TIVERTON	SAKONNET RIVER-TRIB	CREAMER	742	HIGH
TIVERTON	SUCKER BROOK	EAGLEVILLE	749	LOW
WARREN	KICKAMUIT RIVER	WARREN RESERVOIR LOWER	479	SIGNIFICANT
WARREN	KICKAMUIT RIVER	WARREN RESERVOIR UPPER	480	SIGNIFICANT
WARREN	KICKAMUIT RIVER-TRIB	MANCHESTER POND	443	LOW
WARREN	KICKAMUIT RIVER-TRIB	TOUISSET HIGHLAND	753	LOW
WARWICK	APPONAUG BROOK	GORTON POND	559	LOW
WARWICK	APPONAUG BROOK	GORTON POND/RT 5	667	LOW
WARWICK	HARDIG BROOK	UNNAMED	668	LOW
WARWICK	HARDIG BROOK	ROYAL CREST APARTMENTS UPPER	670	LOW
WARWICK	HARDIG BROOK	ROYAL CREST APARTMENTS LOWER	671	LOW
WARWICK	HARDIG BROOK	GRIST MILL APARTMENTS	764	HIGH
WARWICK	HARDIG BROOK-TRIB	VALLEY COUNTRY CLUB POND	431	LOW
WARWICK	HARDIG BROOK-TRIB	KEITH FARM POND	450	LOW
WARWICK	HARDIG BROOK-TRIB	CAMP WARWICK POND	462	HIGH
WARWICK	HARDIG BROOK-TRIB	VALLEY COUNTRY CLUB #2	678	LOW
WARWICK	MASKERCHUGG RIVER	FEIRING FARM POND	544	LOW
WARWICK	PAWTUXET RIVER	PAWTUXET RESERVOIR LOWER	143	LOW
WARWICK	PAWTUXET RIVER	FRUIT OF THE LOOM	144	LOW
WARWICK	PAWTUXET RIVER	SILVER HOOK	302	LOW
WARWICK	PAWTUXET RIVER-TRIB	THREE PONDS	664	LOW
WARWICK	PROVIDENCE RIVER-TRIB	CRANBERRY BOG	548	LOW
WARWICK	PROVIDENCE RIVER-TRIB	MANOR DRIVE EXT. POND	665	LOW
WARWICK	PROVIDENCE RIVER-TRIB	SQUANTUM DRIVE	666	LOW
WARWICK	TUSCATUCKET BROOK	DAVES MARKETPLACE	669	SIGNIFICANT
WARWICK/WEST WARWICK	PAWTUXET RIVER	NATICK POND	145	HIGH
WEST GREENWICH	ACID FACTORY BK	EISENHOWER LAKE	207	LOW
WEST GREENWICH	ACID FACTORY BROOK	KNOX FARM POND	212	LOW
WEST GREENWICH	ACID FACTORY BROOK-TRIB	LEYDEN WILDLIFE POND	597	LOW
WEST GREENWICH	ACID FACTORY BROOK-TRIB	STUBBLE BROOK ROAD POND	695	LOW
WEST GREENWICH	ACID FACTORY BROOK-TRIB	LEYDEN TREE FARM UPPER	696	LOW
WEST GREENWICH	ACID FACTORY BROOK-TRIB	LEYDEN TREE FARM LOWER	697	LOW
WEST GREENWICH	BREAKHEART BROOK	OLD MILL NO. 3	213	LOW
WEST GREENWICH	BREAKHEART BROOK	KASELLA FARM POND	468	LOW
WEST GREENWICH	CARR RIVER	TARBOX POND	183	LOW
WEST GREENWICH	CARR RIVER	CARR POND	184	LOW

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WEST GREENWICH	CARR RIVER	CAPWELL MILL POND	281	LOW
WEST GREENWICH	CONEY BROOK	TILLINGHAST POND	201	LOW
WEST GREENWICH	CONGDON RIVER	RATHBON POND	181	LOW
WEST GREENWICH	FALLS RIVER	HAZARD POND	200	LOW
WEST GREENWICH	FLAT RIVER	OLD MILL POND #1	210	LOW
WEST GREENWICH	FLAT RIVER	OLD MILL #1 UPPER	605	LOW
WEST GREENWICH	KELLEY BROOK	HUDSON POND	203	LOW
WEST GREENWICH	NOOSENECK RIVER	YARD POND	189	LOW
WEST GREENWICH	NOOSENECK RIVER	NOOSENECK MILL	193	LOW
WEST GREENWICH	NOOSENECK RIVER	BRADLEY POND	369	LOW
WEST GREENWICH	NOOSENECK RIVER	R.I. FISH & GAME PROTECTION ASSOC.	519	LOW
WEST GREENWICH	NOOSENECK RIVER	RI FISH & GAME PROTECTIVE ASSOC #2	734	LOW
WEST GREENWICH	PARRIS BROOK	TIPPECANSETT POND	206	LOW
WEST GREENWICH	PHILLIPS BROOK	OLD MILL POND #2	211	LOW
WEST GREENWICH	RACCOON BROOK	ROBIN HOLLOW POND	328	LOW
WEST GREENWICH	UNNAMED	ST JOSEPH CEMETARY	720	LOW
WEST WARWICK	CEDAR BROOK	JUNIPER DRIVE POND	676	LOW
WEST WARWICK	HARDIG BROOK	BOUCHAR FARM POND	455	SIGNIFICANT
WEST WARWICK	HAWKINSON BROOK	FLAT TOP	196	LOW
WEST WARWICK	MESHANTICUT BROOK	DI MARTINO FARM POND	535	LOW
WEST WARWICK	PAWTUXET RIVER	CENTERVILLE POND	149	HIGH
WEST WARWICK	PAWTUXET RIVER-NORTH BRANCH	RIVERPOINT MILL POND DAM	155	LOW
WEST WARWICK	PAWTUXET RIVER-NORTH BRANCH	PHENIX MILL POND	156	LOW
WEST WARWICK	PAWTUXET RIVER-NORTH BRANCH	LOMBARDI FARM POND	473	LOW
WEST WARWICK	PAWTUXET RIVER-SOUTH BRANCH	RIVERPOINT POND LOWER	146	LOW
WEST WARWICK	PAWTUXET RIVER-SOUTH BRANCH	RIVERPOINT POND UPPER	147	HIGH
WEST WARWICK	PAWTUXET RIVER-SOUTH BRANCH	ARCTIC	148	HIGH
WEST WARWICK	PAWTUXET RIVER-SOUTH BRANCH	CROMPTON LOWER	150	LOW
WESTERLY	CEDAR SWAMP BROOK	OLAF FARM POND	493	LOW
WESTERLY	MASTUXET BROOK	BOILING SPRING	752	LOW
WESTERLY	PERRY HEALY BROOK	WOODY HILL RESERVOIR	454	LOW
WESTERLY	UNNAMED	MISQUAMICUT COUNTRY CLUB POND	547	LOW
WESTERLY / CN	PAWCATUCK RIVER	WHITE ROCK	255	LOW
WESTERLY/CT	PAWCATUCK RIVER	STILLMANVILLE	256	LOW
WOONSOCKET	BLACKSTONE RIVER	WOONSOCKET FALLS	056	SIGNIFICANT
WOONSOCKET	CROOKFALL BROOK	WOONSOCKET RESERVOIR # 2	069	LOW
WOONSOCKET	IRON ROCK BROOK	HOLLEY LANE POND	621	HIGH
WOONSOCKET	IRON ROCK BROOK	PRISCILLA ROAD POND	622	LOW
WOONSOCKET	IRONMINE BROOK	CASS PARK MIDDLE	388	LOW
WOONSOCKET	IRONMINE BROOK	SYLVESTER POND	389	LOW
WOONSOCKET	IRONMINE BROOK	CASS PARK LOWER	623	LOW
WOONSOCKET	IRONMINE BROOK	CASS PARK UPPER	624	LOW
WOONSOCKET	MILL RIVER	HARRIS POND DAM	073	HIGH
WOONSOCKET	MILL RIVER	SOCIAL PARK POND LOWER	486	LOW
WOONSOCKET	PACHET BROOK	SOCIAL PARK POND SECONDARY	630	LOW
WOONSOCKET	PETERS RIVER	JENCKESVILLE POND LOWER	071	LOW
WOONSOCKET	PETERS RIVER	JENCKESVILLE POND UPPER	298	LOW