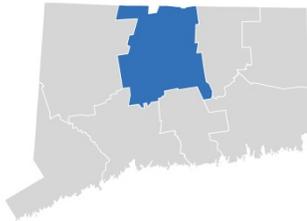


# FLOOD INSURANCE STUDY

## FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 5 OF 11



### HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
TOWN OF AVON	090021	TOWN OF PLAINVILLE	090034
TOWN OF BERLIN	090022	TOWN OF ROCKY HILL	090142
TOWN OF BLOOMFIELD	090122	TOWN OF SIMSBURY	090035
CITY OF BRISTOL	090023	TOWN OF SOUTH WINDSOR	090036
TOWN OF BURLINGTON	090145	TOWN OF SOUTHTON	090037
TOWN OF CANTON	090135	TOWN OF SUFFIELD	090038
TOWN OF EAST GRANBY	090025	TOWN OF WEST HARTFORD	095082
TOWN OF EAST HARTFORD	090026	TOWN OF WETHERSFIELD	090040
TOWN OF EAST WINDSOR	090027	TOWN OF WINDSOR	090041
TOWN OF ENFIELD	090028	TOWN OF WINDSOR LOCKS	090042
TOWN OF FARMINGTON	090029		
TOWN OF GLASTONBURY	090124		
TOWN OF GRANBY	090125		
CITY OF HARTFORD	095080		
TOWN OF HARTLAND	090146		
TOWN OF MANCHESTER	090031		
TOWN OF MARLBOROUGH	090148		
CITY OF NEW BRITAIN	090032		
TOWN OF NEWINGTON	090033		

**PRELIMINARY:**

**AUGUST 10, 2015**

FLOOD INSURANCE STUDY NUMBER  
**09003CV005C**

Version Number 2.3.3.2



**FEMA**

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Batterson Park Pond Brook	12-13 P
Beamans Brook	14-15 P
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Belcher Brook	22-23 P
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Tributary A to Freshwater Brook	449 P
Tributary A to Goff Brook	450-451 P
Tributary A to Roaring Brook	452-453 P
Tributary A to Wash Brook	454-455 P
Tributary B to Copper Mine Brook	456 P
Tributary B to Smith Brook	457-458 P
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West Brook	507 P
Wickham Brook	508 P
Wildcat Brook	509-511 P
Willow Brook (Town of Berlin and City of New Britain)	512-516 P
Willow Brook (Town of East Hartford)	517-519 P
Wood Pond Brook	520 P
Woodridge Lake Inlet	521-522 P

**Published Separately**

Flood Insurance Rate Map (FIRM)

## **Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams**

[Not Applicable to this Flood Risk Project]

### **6.4 Coastal Flood Hazard Mapping**

This section is not applicable to this Flood Risk Project.

## **Table 26: Summary of Coastal Transect Mapping Considerations**

[Not Applicable to this Flood Risk Project]

### **6.5 FIRM Revisions**

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

#### **6.5.1 Letters of Map Amendment**

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at [http://www.fema.gov/plan/prevent/fhm/ot\\_lmreq.shtm](http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm).

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

#### **6.5.2 Letters of Map Revision Based on Fill**

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <http://www.fema.gov> for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at [http://www.fema.gov/plan/prevent/fhm/ot\\_lmreq.shtm](http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm).

#### **6.5.4 Letters of Map Revision**

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <http://www.fema.gov> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Hartford County FIRM are listed in Table 27. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

**Table 27: Incorporated Letters of Map Change**

**[Not Applicable to this Flood Risk Project]**

#### **6.5.3 Physical Map Revisions**

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

#### 6.5.4 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit [www.fema.gov](http://www.fema.gov) to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

#### 6.5.5 Community Map History

The current FIRM presents flooding information for the entire geographic area of Hartford County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFM) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the

FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Hartford County FIRMs in countywide format was 09/26/2008.

**Table 28: Community Map History**

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Town of Avon	01/23/1974	None	None	05/16/1977	06/17/1986 09/26/2008
Town of Berlin	08/16/1974	04/08/1977	None	07/16/1980	07/03/1981 09/26/2008
Town of Bloomfield	02/01/1974	None	None	08/15/1977	03/12/1982 09/30/1988 10/16/1991 09/26/2008 09/16/2011
City of Bristol	05/17/1974	04/18/1975	None	11/18/1981	11/18/1981 09/26/2008
Town of Burlington	07/19/1974	11/12/1976	None	06/01/1981	06/01/1981 09/26/2008
Town of Canton	08/02/1974	12/10/1976	None	08/01/1979	03/18/1991 09/26/2008
Town of East Granby	05/31/1974	08/13/1976	None	01/06/1982	02/05/1997 09/26/2008
Town of East Hartford	12/28/1973	07/19/1977	None	12/18/1979	10/23/1981 09/26/2008 09/16/2011
Town of East Windsor	11/16/1973	08/13/1976	None	04/03/1978	04/03/1978 09/26/2008
Town of Enfield	04/05/1974	05/10/1977	None	03/28/1980	06/17/2002 09/26/2008
Town of Farmington	06/28/1974	None	None	08/15/1977	07/17/1986 01/05/1996 09/26/2008
Town of Glastonbury	04/20/1973	11/19/1976	None	07/15/1978	06/15/1978 09/26/2008 09/16/2011
Town of Granby	07/19/1974	11/26/1976	None	02/15/1980	03/03/1997 09/26/2008

**Table 28: Community Map History**

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
City of Hartford	07/01/1970	None	None	July1,1974	09/29/1978 12/04/1986 09/26/2008 09/16/2011
Town of Hartland	06/28/1974	12/10/1976	None	12/16/1980	12/16/1980 09/26/2008
Town of Manchester	05/24/1974	12/31/1976	None	08/16/1982	10/15/1985 05/02/1991 01/19/1994 09/26/2008
Town of Marlborough	07/19/1974	12/03/1976	None	05/17/1982	09/03/1992 06/17/2002 09/26/2008
City of New Britain	05/24/1974	10/22/1976	None	07/16/1981	05/18/1998 02/02/2002 09/26/2008
Town of Newington	07/26/1974	02/11/1977	None	10/16/1979	02/02/2002 09/26/2008
Town of Plainville	05/31/1974	02/27/1976	None	11/19/1980	01/06/1988 09/26/2008
Town of Rocky Hill	06/07/1974	06/17/1977	None	08/01/1980	08/01/1980 09/26/2008
Town of Simsbury	08/02/1974	None	None	05/16/1977	03/27/1981 04/15/1986 09/26/2008
Town of Southington	05/10/1974	10/08/1976	None	07/16/1981	01/17/1990 07/20/1998 04/15/2002 09/26/2008
Town of South Windsor	08/16/1974	07/09/1976	None	05/01/1980	05/17/1988 02/23/2001 09/26/2008 09/16/2011
Town of Suffield	10/18/1977	05/16/1978	None	08/15/1979	08/15/1979 09/26/2008
Town of West Hartford	09/25/1971	None	None	09/25/1971	07/01/1974 05/11/1979 09/25/1981 06/04/1987 08/19/1991 09/26/2008
Town of Wethersfield	05/11/1973	None	None	05/02/1977	02/19/1982 09/26/2008 09/16/2011

**Table 28: Community Map History**

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Town of Windsor	10/05/1983	04/15/1977	None	09/29/1978	09/29/1986 09/26/2008 09/16/2011
Town of Windsor Locks	06/28/1974	None	None	01/03/1979	01/03/1979 09/26/2008

**SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION**

**7.1 Contracted Studies**

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Austin Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Avery Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Avery Brook	February 23, 2001	Green International Affiliates, inc.	EMB-96-CO-0403, Task No. 12	September, 1998	South Windsor
Avery Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Avery Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Bancroft Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Bancroft Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Barbour Brook	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
Barbour Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton
Bass Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Bass Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Bass Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Bass Brook	February 2, 2002	Dewberry & Davis LLC		May, 2000	New Britain

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bass Brook	February 2, 2002	Dewberry & Davis LLC		May, 2000	Newington
Batterson Park Pond Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Batterson Park Pond Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Batterson Park Pond Brook	February 2, 2002	Dewberry & Davis LLC		May, 2000	New Britain
Beamans Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Beamans Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Beaver Brook	November, 1976	Anderson-Nichols and Co. Inc.	H-3715	March, 1976	Wethersfield
Beeman's Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Beeman's Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Belcher Brook	January, 1980	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	December, 1978	Berlin
Belcher Brook (restudied)	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Big Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Bigelow Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bigelow Brook	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester
Bigelow Brook	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project Order No. 6 (revisions)	June, 1983	Manchester
Birch Mountain Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Blackledge River	June 17, 2002	U.S Geological Survey	EMW-99-IA-0163, Project order No. 1	September, 2000	Marlborough
Bradley Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
Bradley Brook (approximate methods)	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
Broad Brook	June, 1977	Anderson-Nichols and Co. Inc.	H-3862	February, 1977	East Windsor
Buckhorn Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Buckhorn Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Burnham Brook	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Case Reservoir	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Cattle Lot Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Cattle Lot Brook (restudied)	September 3, 1992	U.S Geological Survey	EMW-87-C-2764, Project order No. 1	December, 1990	Marlborough
Cherry Brook	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
Cherry Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton
Chidsey Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Connecticut River	September 26, 2008	Roald Haestad, Inc.	EMB-2003-CO-0338	June, 2006	8 communities in Hartford County (Hartford, Bloomfield, East Hartford, Newington, Rocky Hill, West Hartford, Wethersfield, and Windsor)
Copper Mine Brook	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Creamery Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Creamery Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Creamery Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Creamery Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Creamery Brook (approximate methods)	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
Crooked Brook	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Deckers Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
DeGrayes Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
DeGrayes Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Dickinson Creek	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Dismal Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Dismal Brook (approximate methods)	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
Dividend Brook	February, 1980	Anderson-Nichols and Co. Inc.	H-3862	November, 1977	Rocky Hill
Dry Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Dry Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
East Branch Bradley Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
East Branch Judd Brook	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
East Branch Judd Brook	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
East Branch Judd Brook (approximate methods)	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
East Branch Judd Brook (restudied)	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
East Branch Rattlesnake Brook	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
East Branch Rattlesnake Brook (approximate methods)	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
East Branch Salmon Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
East Branch Salmon Brook	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
East Branch Trout Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
East Fork of East Branch of Bradley Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
Eightmile River	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Eightmile River	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Eightmile River	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Eightmile River	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Farm Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Farm Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Farmington River	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Farmington River	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Farmington River	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Farmington River	December 1, 1980	Philip W. Genovese & Associates Inc.	H-4711	July, 1979	Burlington
Farmington River	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Farmington River	August, 1977	U.S Geological Survey	IAA-H-3-73 Project No. 2	June, 1976	Farmington
Farmington River	November, 1976	U.S Geological Survey	IAA-H-3-73 Project No. 2	July, 1974	Simsbury
Farmington River (restudied)	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Farmington River (restudied)	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
Farmington River (restudied)	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Farmington River (restudied)	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Farmington River (restudied)	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington
Farmington River (restudied)	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
Farnham Drive	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Fawn Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Fawn Brook (restudied)	September 3, 1992	U.S Geological Survey	EMW-87-C-2764, Project order No. 1	December, 1990	Marlborough
Fawn Brook (restudied)	June 17, 2002	U.S Geological Survey	EMW-99-IA-0163, Project order No. 1	September, 2000	Marlborough
Fawn Hill Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Fawn Hill Brook (restudied)	September 3, 1992	U.S Geological Survey	EMW-87-C-2764, Project order No. 1	December, 1990	Marlborough
Filley Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Filley Brook (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Flat Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Folly Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Folly Brook	November, 1976	Anderson-Nichols and Co. Inc.	H-3715	March, 1976	Wethersfield
Folly Brook	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester
Folly Brook	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project Order No. 6 (revisions)	June, 1983	Manchester

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Foot Sawmill Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Foulds Reservoir	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Freshwater Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Freshwater Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Gaffney Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Gaffney Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Globe Hollow Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Globe Hollow Pond	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Goff Brook	November, 1976	Anderson-Nichols and Co. Inc.	H-3715	March, 1976	Wethersfield
Goff Brook	February, 1980	Anderson-Nichols and Co. Inc.	H-3862	November, 1977	Rocky Hill
Grape Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Grape Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Griffin Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Griffin Brook (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Grindle Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Hart Meadow Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Hatchery Brook	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Hawley Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Hayden Station Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Hills Pond Branch	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Hockanum River	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Hockanum River	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Hockanum River	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project order No. 6 (revisions)	June, 1983	Manchester
Hockanum River	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Holland Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Hop Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Hop Brook	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
Hop Brook	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project order No. 6 (revisions)	June, 1983	Manchester
Hop Brook	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester
Hop Brook (restudied)	January 19, 1994	Roald Haestad, Inc.	EMW-90-C-3126	January, 1992	Manchester
Howard Reservoir	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Hubbard Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Humiston Brook	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Humiston Brook (approximate methods)	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Humiston Brook (approximate methods)	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Humiston Brook (restudied)	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Hungary Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
Hungary Brook (approximate methods)	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
Jawbuck Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Jawbuck Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
John Hall Brook	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Judd Brook	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Judd Brook	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Judd Brook	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Judd Brook (restudied)	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Kettle Brook	July, 1978	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor Locks
Lake Erie Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Lower Pond Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Lower Pond Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Lower Pond Brook	February 2, 2002	Dewberry & Davis LLC		May, 2000	New Britain
Lydall Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Lydall Brook	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project order No. 6 (revisions)	June, 1983	Manchester
Lydall Brook	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester
Lyman Brook	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Marsh Pond Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Marsh Pond Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Mason Pond Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Mason Pond Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Mattabesset River	January, 1980	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	December, 1978	Berlin
Mattabesset River	LOMR 4/15/2002	Roald Haestad, Inc.			Berlin

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Meadow Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Mill Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Mill Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Mill Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Mill Brook of Barbers Pond	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Mill Brook of Barbers Pond (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Minister Brook	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
Misery Brook	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Misery Brook	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Misery Brook	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Misery Brook	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Morse Reservoir	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Muddy Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Muddy Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Suffield
Muddy Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Munnisunk Brook	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
Negro Hill Brook	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Nepaug River	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
Nepaug River (approximate methods)	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton
Nod Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Nod Brook	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
North Branch Park River	December 4, 1986	Soil Conservation Service	E-1155	March, 1985	Hartford

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
North Branch Park River	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
North Branch Park River	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
North Branch Park River (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
North Creek	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Pequabuck River	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington
Pequabuck River	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Pequabuck River	August, 1977	U.S Geological Survey	IAA-H-3-73, Project No. 2	June, 1976	Farmington
Pequabuck River	May, 1980	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	December, 1978	Plainville
Pequabuck River	LOMR 3/13/1998	Delta Environmental Services			Bristol
Pewterpot River	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Phelps Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Philo Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Suffield
Piper Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Piper Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529	July, 1998	New Britain
Piper Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Piper Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Piper Brook	LOMR Dec 28, 1999	Roald Haestad, Inc.			West Hartford
Plum Gully Brook	December 16, 2005	U.S Geological Survey	EMW-98-IA-0175	August, 2002	South Windsor
Plum Gully Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Plum Gully Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Poduck River	December 16, 2005	U.S Geological Survey	EMW-98-IA-0175	August, 2002	South Windsor
Podunk River	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Podunk River	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Polkville Brook	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Poplar Swamp Brook	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington
Porter Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Porter Brook	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Porter Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Porter Brook	October 15, 1985	U.S Geological Survey	IAA-H-8-76, Project order No. 6 (revisions)	June, 1983	Manchester
Porter Brook	February 16, 1982	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	September, 1978	Manchester
Quarry Brook	December 16, 2005	U.S Geological Survey	EMW-98-IA-0175	August, 2002	South Windsor
Quarry Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Quarry Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Quinnipiac River	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Quinnipiac River	May, 1980	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	December, 1978	Plainville
Quinnipiac River	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Quinnipiac River (restudied)	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Quinnipiac River (restudied)	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Quinnipiac River Diversion Channel	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Quinnipiac River Diversion Channel	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Quinnipiac River Diversion Channel (approximate methods)	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Quinnipiac River Diversion Channel (approximate methods)	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Rattlesnake Brook	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton
Rattlesnake Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton
Roaring Brook	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington
Roaring Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Roaring Brook (Jim Brook)	March 18, 1991	U.S Geological Survey	EMW-8S-E-1923 Project Order No.3	May, 1988	Canton

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Roaring Brook (Jim Brook)	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	October, 1977	Canton
Roaring Brook (restudied)	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Rock Hole Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Rock Hole Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Rockledge Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Rockledge Brook	LOMR Dec 16, 1999	Milone & MacBroom Inc.			West Hartford
Salmon Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Salmon Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
Salmon Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Salmon Brook	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Salmon Brook	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
Sanborn Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sanborn Brook	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Sandy Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Sandy Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Sandy Brook	February 2, 2002	Dewberry & Davis LLC		May, 2000	New Britain
Scantic River	June, 1977	Anderson-Nichols and Co. Inc.	H-3862	February, 1977	East Windsor
Scantic River	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Scantic River	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Schoolhouse Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Schoolhouse Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Schultz Pond Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Schultz Pond Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Scott Swamp Brook	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sheldens Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Sheldens Brook	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Smith Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
South Branch Lydall Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
South Branch Park River	December 4, 1986	Soil Conservation Service	E-1155	March, 1985	Hartford
South Branch Park River	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
South Branch Pewterpot River	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
South Tributary of Austin Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
South Tributary of Austin Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Spring Lake Brook	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Spring Lake Brook	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington
Spring Lake Brook	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Spring Lake Brook (approximate methods)	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Spruce Brook	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
St. Joseph's Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Stocking Brook	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Stony Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
Stony Brook	February, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Suffield
Stony Brook	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Stoughton's Brook	May 17, 1988	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	South Windsor
Stoughton's Brook	May 17, 1988 revision	Dewberry & Davis LLC		May, 1988	South Windsor
Stratton Brook	April 15, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	May, 1984	Simsbury
Tenmile River	April 15, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	April, 2000	Southington
Tenmile River	January 17, 1990	U.S Geological Survey	EMW-84E-1548 Project Order No.2	June, 1987	Southington

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tenmile River	July 20, 1998	Green International Affiliates, inc.	EMW-93-C-4144, Task No. 12	August, 1995	Southington
Tenmile River	July 16, 1981	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	May, 1979	Southington
Terry Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Terry Brook (approximate methods)	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Thompson Brook	June 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	June, 1984	Avon
Tributary A to Copper Mine Brook	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Tributary A to Freshwater Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Tributary A to Freshwater Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield
Tributary A to Goff Brook	November, 1976	Anderson-Nichols and Co. Inc.	H-3715	March, 1976	Wethersfield
Tributary A to Roaring Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Tributary A to Wash Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary A to Wash Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tributary B to Copper Mine Brook	May 18, 1991	Anderson-Nichols and Co. Inc.	H-3862	March, 1978	Bristol
Tributary B to Smith Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Tributary B to Tributary A to Wash Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary B to Tributary A to Wash Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Tributary C to Deckers Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Tributary C to Tributary A to Wash Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary C to Tributary A to Wash Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Tributary D to Beaman's Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary D to Beaman's Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tributary D to Hayden Station Brook	March, 1978; September 29, 1986 revision	Anderson-Nichols and Co. Inc.	H-3862	June, 1977	Windsor
Tributary to North Branch Park River	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary to North Branch Park River (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Tributary to Tumbledown Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tributary to Tumbledown Brook (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Trout Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Tumbledown Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Tumbledown Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Tumbledown Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Tumbledown Brook Channel	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tumbledown Brook Channel	October 16, 1991	Dewberry & Davis LLC		June, 1990	Bloomfield
Tumbledown Brook Channel (approximate methods)	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Tumbledown Brook Tributary	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Tumbledown Brook Tributary	August 19, 1991	Dewberry & Davis LLC		June, 1990	West Hartford
Two Stone-Collier Brook	November, 1976	Anderson-Nichols and Co. Inc.	H-3715	March, 1976	Wethersfield
Unionville Brook	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington
Unnamed Tributary to Dickinson Creek	June 17, 2002	U.S Geological Survey	EMW-99-IA-0163, Project order No. 1	September, 2000	Marlborough
Unnamed Tributary to Dickinson Creek	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
Wash Brook	September 30, 1988	Flaherty-Giavara Associates	EMW-84-C-1594	March, 1986	Bloomfield
Wash Brook	March, 1982	Anderson-Nichols and Co. Inc.	H-3715	April, 1976	Bloomfield
Waterworks Brook	June 17, 2002	Roald Haestad, Inc.	EMB-1999-CO-0564	September, 2000	Enfield
Waterworks Brook	September, 1979	Anderson-Nichols and Co. Inc.	H-3862	February, 1978	Enfield

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Webster Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529	July, 1998	New Britain
Webster Brook	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Webster Brook	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
Webster Brook	LOMR 12/13/1999	Roald Haestad, Inc.			Berlin
Webster Brook Tributary	February 2, 2002	Roald Haestad, Inc.	EMB-97-CO-0529 & EMB-97-CO-0529 Modification No. 2	May, 1999	Newington
Webster Brook Tributary	April 1, 1979	Anderson-Nichols and Co. Inc.	H-3862	December, 1977	Newington
West Branch Bradley Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby
West Branch Dickinson Creek	1981	U.S Geological Survey	IAA-H-14-78, Project Order No. 17	March, 1980	Marlborough
West Branch Dickinson Creek (restudied)	September 3, 1992	U.S Geological Survey	EMW-87-C-2764, Project order No. 1	December, 1990	Marlborough
West Branch Farmington River	June, 1980	Philip W. Genovese & Associates Inc.	H-4711	July, 1979	Hartland
West Branch Salmon Brook	March 3, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	May, 1995	Granby

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
West Branch Salmon Brook	August, 1979	U.S Geological Survey	IAA-H-8-76, Project Order No. 6	October, 1977	Granby
West Brook	February 5, 1997	U.S Geological Survey	EMW-92-E-3848 Project Order No.3	March, 1995	East Granby
West Brook (approximate methods)	July 6, 1981	U.S Geological Survey	IAA-H-14-78	June, 1980	East Granby
Wickham Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Wildcat Brook	December, 1977	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	Glastonbury
Willow Brook	May 18, 1998	U.S Geological Survey	EMW-90-E-3266	June, 1995	New Britain
Willow Brook	January, 1979	Anderson-Nichols and Co. Inc.	H-3862	August, 1977	East Hartford
Willow Brook	January 16, 1981	U.S Geological Survey	IAA-H-8-76, Project Order No. 7	April, 1978	New Britain
Willow Brook	January, 1980	U.S Geological Survey	IAA-H-9-77, Project Order No. 27	December, 1978	Berlin
Willow Brook (restudied)	May 3, 1993	U.S Geological Survey	EMW-898-E-2997 Project Order No.5	May, 1991	Berlin
Wilson Brook	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester
Wilson Brook Detention Pond	May 2, 1991	Roald Haestad, Inc.	EHW-88-C-2628	July, 1989	Manchester

**Table 29: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Wood Pond Brook	June 4, 1987	NRCS	E-1155 Project Order No.1	June, 1985	West Hartford
Woodridge Lake Inlet	July 17, 1986	U.S Geological Survey	EMW-E-1154 Project Order No.1	March, 1984	Farmington

## **7.2 Community Meetings**

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Town of Avon	06/17/1986 (FIRM)	06/27/1985	Final CCO	
Town of Berlin	08/16/1974, 07/16/1980, 07/03/1981,05/03/1993,09/26/2008 (DFIRM)	06/22/1977	Initial CCO	
		08/03/1979	Final CCO	
Town of Bloomfield	03/12/1982, 09/30/1988, 10/16/1991	07/07/1987	Final CCO	
City of Bristol	11/18/1981	02/01/1976	Initial CCO	
		12/14/1977	Intermediate CCO	
		08/16/1979	Final CCO	
Town of Burlington	06/01/1981, 09/26/2008	04/01/1978	Initial CCO	
		07/22/1980	Final CCO	
Town of Canton	03/18/1991	12/06/1984	Initial CCO	
		03/03/1990	Final CCO	
Town of East Granby	02/05/1997	04/07/1978	Initial CCO	
		02/27/1981	Final CCO	
		02/05/1990	Initial CCO	
		11/30/1995	Final CCO	
Town of East Hartford	10/23/1981	10/01/1975	Initial CCO	
		08/03/1977	Intermediate CCO	

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
		08/02/1978	Final CCO	
Town of East Windsor	04/03/1978	09/16/1975	Initial CCO	
		09/29/1976	Intermediate CCO	
		03/30/1977	Final CCO	
Town of Enfield		09/01/1976	Initial CCO	
		01/23/1978	Intermediate CCO	
		10/13/1978	Final CCO	
	06/17/2002	08/18/1999	Initial CCO	
		06/18/2001	Final CCO	
Town of Farmington	08/15/1977, 07/17/1986, 01/05/1996	03/1983	Initial CCO	
		08/30/1985	Final CCO	
Town of Glastonbury	06/15/1978	09/15/1975	Initial CCO	
		03/03/1977	Intermediate CCO	
		07/19/1977	Final CCO	
Town of Granby		04/1975	Initial CCO	
		11/30/1977	Intermediate CCO	

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
	03/03/1997	03/07/1979	Final CCO	
		02/05/1990	Initial CCO	
		03/05/1996	Final CCO	
Town of Hartford	09/29/1978, 12/04/1986	03/25/1983	Initial CCO	
		04/22/1985	Final CCO	
Town of Hartland	12/16/1980	04/1978	Initial CCO	
		01/29/1980	Final CCO	
Town of Manchester	10/15/1985, 05/02/1991	07/07/1987	Initial CCO	
		06/20/1990	Final CCO	
	01/19/1994	09/10/1991	Initial CCO	
Town of Marlborough	09/03/1992, 06/17/2002	04/18/1978	Initial CCO	
		03/20/1981	Final CCO	
		07/20/1988	Initial CCO	
		06/06/2000	Initial CCO	
		07/25/2001	Final CCO	
City of New Britain	05/18/1998	08/04/1976	Initial CCO	
		08/20/1980	Final CCO	
		01/13/1997	Final CCO	
	02/02/2002	01/24/1997	Initial CCO	

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
		10/18/2000	Final CCO	
		03/06/2012	Discovery	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)
		10/15/2014	Draft Work Map	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)
Town of Newington	02/02/2002	01/1976	Initial CCO	
		10/26/1978	Final CCO	
		01/24/1997	Initial CCO	
		10/18/2000	Final CCO	
Town of Plainville	01/06/1988	06/30/1977	Initial CCO	
		04/05/1979	Intermediate CCO	
		01/04/1980	Final CCO	
		03/06/2012	Discovery	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)
		10/15/2014	Draft Work Map	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)
Town of Rocky Hill	08/01/1980	09/1976	Initial CCO	
		10/30/1978	Final CCO	
Town of Simsbury	03/27/1981, 04/15/1986	03/1983	Initial CCO	
		05/17/1985	Final CCO	

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Town of South Windsor	01/17/1990, 07/20/1998, 04/15/2002	01/29/1976	Initial CCO	
		11/15/1979	Final CCO	
Town of Southington	05/17/1988, 02/23/2001	02/28/1984	Initial CCO	
		11/09/1988	Final CCO	
		05/24/1994	Initial CCO	
		10/03/1996	Final CCO	
		03/16/2001	Final CCO	
	03/06/2012	Discovery	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)	
	10/15/2014	Draft Work Map	USGS, CT DEEP, Town/City Officials & Representatives (FEMA on conference call)	
Town of Suffield	08/15/1979	01/30/1976	Initial CCO	
		10/19/1977	Intermediate CCO	
		08/30/1979	Final CCO	
Town of West Hartford	07/01/1974, 05/11/1979, 09/25/1981, 06/04/1987, 08/19/1991	03/25/1983	Initial CCO	
		12/01/1983; 12/30/1985	Intermediate CCO	
		07/23/1986	Final CCO	
Town of Wethersfield	02/19/1982	10/24/1974	Initial CCO	

**Table 30: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
		10/08/1975	Final CCO	
Town of Windsor	09/29/1986	09/1975	Initial CCO	
		07/15/1977	Final CCO	
Town of Windsor Locks	01/03/1979	01/30/1976	Initial CCO	
		08/30/1977	Intermediate CCO	
		02/01/1978	Final CCO	

## SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Hartford County (FEMA 2008).

Table 31 is a list of the locations where FIRMs for Hartford County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

**Table 31: Map Repositories**

Community	Address	City	State	Zip Code
Town of Avon	60 West Main Street	Avon	CT	06001
Town of Berlin	240 Kensington Road	Berlin	CT	06037
Town of Bloomfield	800 Bloomfield Avenue	Bloomfield	CT	06002
City of Bristol	111 North Main Street	Bristol	CT	06010
Town of Burlington	200 Speilman Highway	Burlington	CT	06013
Town of Canton	Four Market Street	Collinsville	CT	06022
Town of East Granby	Nine Center Street	East Granby	CT	06026
Town of East Hartford	740 Main Street	East Hartford	CT	06108
Town of East Windsor	11 Rye Street	Broad Brook	CT	06016
Town of Enfield	820 Enfield Street	Enfield	CT	06082
Town of Farmington	One Monteith Drive	Farmington	CT	06032
Town of Glastonbury	2155 Main Street	Glastonbury	CT	06033
Town of Granby	15 North Granby Road	Granby	CT	06035
City of Hartford	550 Main Street	Hartford	CT	06103
Town of Hartland	22 South Road	Hartland	CT	06027
Town of Manchester	41 Center Street	Manchester	CT	06040
Town of Marlborough	26 North Main Street	Marlborough	CT	06447
City of New Britain	27 West Main Street	New Britain	CT	06051
Town of Newington	131 Cedar Street	Newington	CT	06111
Town of Plainville	One Central Square	Plainville	CT	06062
Town of Rocky Hill	761 Old Main Street	Rocky Hill	CT	06067

**Table 31: Map Repositories**

Community	Address	City	State	Zip Code
Town of Simsbury	933 Hopmeadow Street	Simsbury	CT	06070
Town of South Windsor	1540 Sullivan Avenue	South Windsor	CT	06074
Town of Southington	75 Main Street	Southington	CT	06489
Town of Suffield	83 Mountain Road	Suffield	CT	06078
Town of West Hartford	50 South Main Street	West Hartford	CT	06107
Town of Wethersfield	505 Silas Deane Highway	Wethersfield	CT	06109
Town of Windsor	275 Broad Street	Windsor	CT	06095
Town of Windsor Locks	50 Church Street	Windsor Locks	CT	06096

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

**Table 32: Additional Information**

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	<a href="http://www.fema.gov">http://www.fema.gov</a>
NFIP website	<a href="https://www.fema.gov/national-flood-insurance-program">https://www.fema.gov/national-flood-insurance-program</a>
NFHL Dataset	<a href="http://msc.fema.gov">http://msc.fema.gov</a>
FEMA Region I	99 High Street, 6 <sup>th</sup> Floor, Boston, Massachusetts 02110
Other Federal Agencies	
USGS website	<a href="http://www.usgs.gov">http://www.usgs.gov</a>
Hydraulic Engineering Center website	<a href="http://www.hec.usace.army.mil">http://www.hec.usace.army.mil</a>
State Agencies and Organizations	

**Table 32: Additional Information**

State NFIP Coordinator	Diane Ifkovic Department of Energy and Environmental Protection 79 Elm Street Hartford, Connecticut 06106 (860) 424-3537 diane.ifkovic@ct.gov
State GIS Coordinator	GIS Section Department of Energy and Environmental Protection Office of Information Management 79 Elm Street Hartford, Connecticut 06106 (860) 424-3540 deep.gisdata@ct.gov

**SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES**

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Abrams Aerial Survey, 1979a	Abrams Aerial Survey of Lansing, Michigan	<i>Topographic Maps Simsbury, CT, June 1979; compiled from aerial photographs, Scale 1"=200', Contour interval: 2 Feet.</i>	Abrams Aerial Survey of Lansing, Michigan		6/1/1979	
Abrams Aerial Survey, 1979b	Abrams Aerial Survey of Lansing, Michigan	<i>Topographic Maps Simsbury, CT, June 1979; compiled from aerial photographs, Scale 1"=800', Contour interval: 10 Feet.</i>	Abrams Aerial Survey of Lansing, Michigan		6/1/1979	
ADRA, 1979a	Aerial Data Reduction Associates, Inc., of Peacedale, Rhode Island	<i>Topographic Maps Farmington, CT, April 1979: compiled from aerial photographs, Scale 1"=200', Contour interval: 2 Feet.</i>	Aerial Data Reduction Associates, Inc., of Peacedale, Rhode Island		4/21/1979	
ADRS, 1979b	Aerial Data Reduction Service of Pennsauken, NJ	<i>Topographic Maps Avon, CT, April 1979: compiled from aerial photographs, Scale 1"=200', Contour interval: 2</i>	Aerial Data Reduction Service of Pennsauken, NJ		April, 1979	
Ahearn, 2004	U.S. Geological Survey	<i>Regression Equations for Estimating Flood Flows for the 2-, 10-, 50-, and 500-year Recurrence Intervals in Connecticut: U.S. Geological Survey, Scientific Investigation Report 2004-5160</i>	Ahearn, Elizabeth A., U.S. Geological Survey	Hartford, Connecticut	2004	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Ahearn, 2005	U.S. Geological Survey	<i>Estimates of the Magnitude and Frequency of Flood Flows in the Connecticut River in Connecticut: U.S. Geological Survey, Open-File Report 2005-1369</i>	Ahearn, Elizabeth A., U.S. Geological Survey	Hartford, Connecticut	2005	
Alcorn, 1970	The Three Hundred Anniversary Committee of the Town of Suffield, Connecticut. Connecticut Printers, Inc.	<i>The Biography of a Town, Suffield, Connecticut, 1670-1970</i>	Robert H. Alcorn	Hartford, Connecticut	1970	
Alford, 1975	Alford & Associates, Inc.	<i>Topographic Site Plan, Windsor, CT, 1975: Scale 1:480, Contour interval: 2 Feet.</i>	Alford & Associates, Inc.		1975	
Anderson-Nichols, 1965	State of Connecticut, Department of Agriculture and Natural Resources, Water Resources Commission	<i>Report on Channel Encroachment Lines and Floodplain Delineation South Branch Park River Watershed</i>	Anderson-Nichols & Associates, Inc., Consulting Engineers		1965	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Avon, 1983	Town of Avon	<i>Topographic Maps Avon, CT, December, 1983: compiled from aerial photographs by Tallamy, Van Kuren, Gertis, and Associates of Orchard Park, New York, Scale 1:2,400, Contour interval: 5 feet.</i>	Tallamy, Van Kuren, Gertis, and Associates of Orchard Park, New York		December 1983	
Bogart, 1960	U.S. Geological Survey	<i>Floods of August-October 1955, New England to North Carolina, Water Supply Paper 1420,</i>	Bogart, D.B.: U.S. Department of the Interior, Geological Survey		1960	
Bristol, 1975	Bristol Press	<i>Volume CV No. 307</i>	Bristol Press	Bristol, Connecticut	1974	
Close, 1976	Windsor Locks, Connecticut and Environs	<i>Topographic Maps, Windsor Locks, Connecticut and Environs, 1976; Scale 1:2,400, Contour Interval: 2 feet.</i>	Close, Jensen, and Miller		1976	
CT DEP, 2010	Connecticut Department of Environmental Protection	<i>Baseline Watershed Assessment North Branch Park River Watershed, prepared by Fuss &amp; O'Neill, Inc.</i>	Fuss & O'Neill		July 2010	<a href="http://www.ct.gov/deep/lib/deep/water/watershed_management/wm_plans/nbpar kr/baseline_assess.pdf">http://www.ct.gov/deep/lib/deep/water/watershed_management/wm_plans/nbpar kr/baseline_assess.pdf</a>

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
CT DOT, 1969	Connecticut Department of Transportation	<i>Topographic Maps East Windsor, CT, 1969: Project 1a-69, Scale 1:2,400, Contour interval: 5 feet.</i>	Connecticut Department of Transportation		1969	
CT DOT, 1970	Connecticut Department of Transportation	<i>CT Department of Transportation, Topographic Maps for the relocation of RT 44 Salisbury to Avon, Scale 1:2,400, Contour Interval 5 ft: Canton, CT, April 1970.</i>	Connecticut Department of Transportation		1970	
CT SHD, 1957	Connecticut State Highway Department	<i>Topographic Maps, Relocation of Connecticut 190, Suffield to Enfield. Scale 1:2,400, Contour Interval: 5 feet.</i>	Connecticut State Highway Department		1957	
CT WRC, 1959	Connecticut Water Resources Commission	<i>Report on Stream Encroachment Lines - Connecticut River - Bodkin Rock to Massachusetts State Line</i>	Connecticut Water Resources Commission		1959	
Davis Surveying, 1990	Davis Surveying	<i>Allen Cohn &amp; David Levin Property, Still Road, West Hartford, May 28, 1990: Scale 1:40, Contour interval: 2 feet.</i>	Davis Surveying	Simsbury, CT	5/28/1990	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Disbow, 1971	Town of Enfield Development Agency	<i>Flood Control Report, Freshwater Brook, Connecticut river to Route #5</i>	Donald L. Disbow, Consulting Engineers		April 1971	
Enfield, 1991	Town of Enfield	<i>Digital Topographic Map of the Town of Enfield. Connecticut, Contour interval: 2 feet</i>	Town of Enfield	Town of Enfield	1991	
Geod Aerial Mapping, 1975	Geod Aerial Mapping, Inc.	<i>Topographic Maps of Canton, Connecticut, Scale 1:2,400, Contour Interval: 5 feet</i>	Geod Aerial Mapping, Inc.		1975	
Geod Aerial Mapping, 1976a	Geod Aerial Mapping, Inc.	<i>Topographic Maps of Connecticut River, Windsor Locks, CT and Environs, 1976: Close, Jensen, and Miller, Scale 1:2,400, Contour interval: 2 feet.</i>	Geod Aerial Mapping, Inc.		1976	
Geod Aerial Mapping, 1976b	Geod Aerial Mapping, Inc.	<i>Topographic Map of Suffield, Connecticut, Scale 1:4,800, Contour interval: 5 feet</i>	Geod Aerial Mapping, Inc.		1976	
Geod Aerial Mapping, 1976c	Geod Aerial Mapping, Inc.	<i>Topographic Maps of Enfield, Scale 1:4,800, Contour Interval: 5 feet</i>	Geod Aerial Mapping, Inc.		1976	
Geod Aerial Mapping, 1977a	Geod Aerial Mapping, Inc.	<i>Topographic Map of Bristol, Connecticut, Scale 1:4,800, Contour Interval: 5 Feet</i>	Geod Aerial Mapping, Inc.	New Jersey	1977	

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Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Geod Aerial Mapping, 1977b	Geod Aerial Mapping, Inc.	<i>Topographic Maps of East Windsor, Connecticut, Scale 1:2,400, Contour Interval: 5 feet</i>	Geod Aerial Mapping, Inc.		1977	
Geomaps, 1978a	Geomaps Aerial Survey of Long Island New York	<i>Topographic Maps compiled from aerial photographs (Avon, CT, 1978) , Scale 1:4,800, Contour Interval: 4 Feet</i>	Geomaps Aerial Survey of Long Island New York	Avon, Connecticut	1978	
Geomaps, 1978b	Geomaps Aerial Survey of the Farmington River, Connecticut	<i>Farmington River Aerial Contour Maps, Scale 1:4,800, Contour Interval: 4 feet</i>	Geomaps Aerial Survey of the Farmington River, Connecticut	Long Island New York	1978	
Glastonbury, 1970	Town of Glastonbury	<i>Topographic Maps (Glastonbury), Scale 1:2,400, Contour Interval: 2 feet</i>	Town of Glastonbury	Town of Glastonbury	1970	
Macchi, 1972	Metcalf & Eddy, Inc.	<i>Report on Shaker Pond Dam, Hartford, Connecticut</i>	Macchi & Hoffman		7/21/1972	
Marlborough , 1977	Town of Marlborough	<i>Topographic Maps of Marlborough, April, 1977: Scale 1:100, Contour interval: 2 feet.</i>	Town of Marlborough	Marlborough, CT	April, 1977	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
MDC a	Metropolitan District Commission	<i>Geodetic and Topographical Survey Maps of Windsor, CT (Hartford County), Scale 1"=200', Contour Interval: 2 feet</i>	Metropolitan District Commission Hartford County	Hartford, Connecticut	—	
MDC b	Metropolitan District Commission	<i>Topographic Maps of East Hartford, CT: Scale 1:2,400, Contour interval: 2 feet.</i>	Metropolitan District Commission, Regional Planning, Survey and Mapping Division	Hartford, Connecticut		
MDC, 1969	Metropolitan District Commission	<i>Topographic Maps of South Windsor, CT, April, 1969: Scale 1:2400, Contour Interval: 2 feet.</i>	Hartford County, Connecticut, Metropolitan District Commission on Regional Planning Survey and Mapping Division	South Windsor, Connecticut	1969	
MDC, 1973	Metropolitan District Commission	<i>Geodetic and Topographic Survey Maps of Rocky Hill, CT, 1973: Scale 1:2,400, Contour Interval: 2 feet</i>	Metropolitan District Commission	Hartford, Connecticut	1973	
MDC, 1976	Metropolitan District Commission	<i>Topographic Maps of Wethersfield, CT, 1976: Scale 1:2,400, Contour interval: 2 feet.</i>	Metropolitan District Commission, Hartford, CT	Wethersfield, CT	1976	

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Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
MDC, 1979	Metropolitan District Commission	<i>Topographic Maps (Hartford and East Hartford, CT, 1979), Scale 1:2,400, Contour Interval: 2 feet</i>	Metropolitan District Commission on Regional Planning, Survey and Mapping Division	Hartford, Connecticut	1979	
MDC, 1984	Metropolitan District Commission	<i>Geodetic and Topographic Maps of Bloomfield, CT, 1979-84: Scale 1:2,400, Contour interval: 2 Feet</i>	Metropolitan District Commission of Connecticut	Hartford, Connecticut	—	
MDC, 1985a	Metropolitan District Commission	<i>Topographic Maps of West Hartford, prior to 1985: Scale 1:2,400, Contour interval: 2 feet.</i>	Metropolitan District Commission	Hartford, Connecticut	1985	
MDC, 1985b	Metropolitan District Commission	<i>Topographic Maps of Hartford, prior to 1985: Scale 1:2,400, Contour interval: 2 feet.</i>	Metropolitan District Commission	Hartford, Connecticut	1985	
Metcalf & Eddy, 1976	Town of Enfield Redevelopment Agency, Metcalf & Eddy, Inc., Engineers	<i>Freshwater Pond Project, Project No. Conn. R-127, Preliminary Copy.</i>	Town of Enfield Redevelopment Agency, Metcalf & Eddy, Inc., Engineers	Town of Enfield Redevelopment Agency, Metcalf & Eddy, Inc., Engineers	1976	
Mozzochi, 1959	State of Connecticut, Department of Transportation	<i>Relocation of Connecticut Route 72, Plymouth to Plainville," Sheets 3, 4, 6, 7, and 8, Scale 1:2,400, Contour interval: 5 Feet</i>	Mozzochi Associates	Hartford, Connecticut	1959	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Mozzochi, 1970	State of Connecticut, Water Resources Commission	<i>Report on Establishment of Channel Encroachment Lines, Pequabuck River, Bristol-Plainville</i>	Mozzochi Associates	Glastonbury, Connecticut	1970	
Newington, 1990 and 1994	Town of Newington	<i>Digital Topographic Map of Newington, CT, 1990, 1994: Scale 1:80, Contour Interval: 2 feet, based on National Geodetic Vertical Datum of 1929.</i>			Photographs dated February 1990 and April 1994	
Sauer, 1983	U.S. Geological Survey	<i>Flood Characteristics of Urban Watersheds in the United States: USGS Water Supply Paper 2207</i>	Sauer and others, 1983		1983	
SCS, 1972	Soil Conservation Service	<i>National Engineering Handbook, Section 4</i>	U.S. Department of Agriculture, Soil Conservation Service, Hydrology	Washington, D.C.	1972	
SCS, 1982a	Soil Conservation Service	<i>Technical Release No. 61, WSP-2 Computer Program</i>	U.S. Department of Agriculture, Soil Conservation Service	Washington, D.C.	May 1976, Revised 1982	
SCS, 1982b	Soil Conservation Service	<i>Technical Release No. 20, Computer Program, Project Formulation, Hydrology</i>	U.S. Department of Agriculture, Soil Conservation Service	Washington, D.C.	5/1/1982	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
SCS, 1990	Soil Conservation Service	<i>As Built Plans 1990 Avery Brook Watershed Dam Sites No. 1 and No.2</i>	U.S. Department of Agriculture, Soil Conservation Service		1990	
SCS, 1994	Soil Conservation Service	<i>South Branch Park River, Water Protection Project, Piper and Mill Brooks Channel Improvement, "as-built" drawings</i>	U.S. Department of Agriculture, Soil Conservation Service		1994	
SEA, 1981	SEA Consultants, Inc.	<i>South Windsor, Connecticut, Avery Brook Channel Improvements, Contract 80-2.</i>	SEA Consultants, Inc.		4/1/1981	
Sells, 1984	Chas. H. Sells, Inc.	<i>Topographic Maps of the Town of Manchester, Scale 1: 1,200, Contour Interval: 2 Feet.</i>	Chas. H. Sells, Inc.		1984	
Shearman, 1976	U.S. Department of the Interior, Geological Survey	<i>E431, superseded by J635, Computer Applications for Step Backwater and Floodway Analyses, USGS Open-File Report 76-499</i>	James O. Shearman	Washington, D.C.	1976	
Shearman, 1990	U.S. Department of the Interior, Geological Survey	<i>WSPRO--A model for Water-Surface PROfile computations: Washington, D.C., U.S. Department of Transportation, Federal Highway Administration, FWHA-IP-89-027</i>	James O. Shearman	Washington, D.C.	1990	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article,"</i> Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Southington, 1975 and 1978	Town of Southington	<i>Topographic Map of Southington, CT, 1975: Scale 1:2,400, Contour interval: 2 feet.</i>	Town of Southington	Town of Southington	1975 & 1978	
USACE, 1955	U.S. Army Corps of Engineers, New England Division	<i>General Design Memorandum, Folly Brook Local Protection-Hartford, Connecticut</i>	U.S. Army Corps of Engineers, New England Division		May 1955	
USACE, 1966a	U.S. Army Corps of Engineers, New England Division	<i>Report on Review of Survey for Flood Control; Park River Basin," Volume 1</i>	U.S. Army Corps of Engineers, New England Division	Waltham, Massachusetts	July 1966	
USACE, 1966b	U.S. Army Corps of Engineers, New England Division	<i>Report on Review of Survey for Flood Control; Park River Basin," Volume 2</i>	U.S. Army Corps of Engineers, New England Division	Waltham, Massachusetts	July 1966	
USACE, 1971a	U.S. Army Corps of Engineers, New England Division.	<i>Flood Plain Information - Farmington and Connecticut Rivers</i>	U.S. Army Corps of Engineers, New England Division.	Waltham, Massachusetts	March 1971	
USACE, 1971b	U.S. Army Corps of Engineers, New England Division	<i>Floods in Windsor, Connecticut</i>	U.S. Army Corps of Engineers, New England Division		March 1971	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article,"</i> Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1972	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water-Surface Profiles, Generalized Computer Program</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	1972	
USACE, 1973	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water-Surface Profiles, Generalized Computer Program</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	1973	
USACE, 1975	U.S. Army Corps of Engineers, New England Division	<i>Park River Local Protection, Design Memorandum No. 3, Hydraulic Analysis</i>	U.S. Army Corps of Engineers, New England Division	Waltham, Massachusetts	1975	
USACE, 1976	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water-Surface Profiles, Generalized Computer Program</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	Nov 1976	
USACE, 1977	U.S. Army Corps of Engineers, New England Division	<i>East Hartford Local Protection Project, Hydrologic Background, Connecticut River Basin Flood Control</i>	U.S. Army Corps of Engineers, New England Division		May 1977	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1984	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water-Surface Profiles, Generalized Computer Program</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	April 1984	
USACE, 1990	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-1, Precipitation-Runoff Model, Version 4.0 September 1990</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	September 1990	
USACE, 1991	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water-Surface Profiles, Generalized Computer Program</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	May 1991	
USACE, 1997	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS River Analysis System. Version 2.1. Water-Surface Profiles</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	10/1/1997	
USACE, 1998	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS River Analysis System. Version 2.2. Water-Surface Profiles</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	9/1/1998	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article,"</i> Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 2005	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS River Analysis System. Version 3.1.3.</i>	U.S. Army Corps of Engineers, Hydrologic Engineering Center	Davis, California	5/1/2005	
USACE, 2010	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS version 4.1.0 Application Guide</i>	Warner, J.C., Brunner, G.W., Wolfe, B.C., and Piper, S.S.		January 2010	
USGS, 1956, 1957	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Avon, Connecticut, 1957; Collinsville, Connecticut, 1956; New Hartford, Connecticut, 1956; New Hartford, Connecticut, 1956; Tarriffville, Connecticut, 1956.	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1958, 1970, 1972	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Southwich, MA-CT, 1958; West Springfield, MA-CT, 1958, photorevised 1970; Springfield South, MA-CT, 1956, photorevised 1970; Tariffville, MA-CT, 1956, photorevised 1970; Windsor Locks, CT, 1964, photorevised 1972; Broad Brook, CT, 1964, photorevised 1972.	
USGS, 1964	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Hartford South, CT, 1964.	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1968	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Collinsville, CT, 1956, photorevised 1968.	
USGS, 1968	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Avon, CT, 1968; Collinsville, CT, 1968.	
USGS, 1968, 1970	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Avon, Connecticut, 1957, Photo revised, 1968; Collinsville, Connecticut, 1956, Photo revised 1968; New Hartford, Connecticut, 1956, Photo revised 1970; Tarriffville, Connecticut-Massachusetts, 1956, Photo revised 1970)	

**Table 33: Bibliography and References**

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1968, 1971, 1972	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Avon, CT, 1968; Bristol, CT, 1972; Collinsville, CT, 1968; New Britain, CT, 1971.	
USGS, 1968, 1972a	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Hartford North, CT, 1964, Photorevised 1972; Hartford South, CT, 1964, Photorevised 1972; Manchester, CT, 1963, Photorevised 1968; Glastonbury, CT, 1964, Photorevised 1972.	

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USGS, 1968, 1972b	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Hartford North, CT, 1964, photorevised 1972; Manchester, CT, 1963, photorevised 1968; Broad Brook, CT, 1964, photorevised 1972; Windsor Locks, CT, 1964, photorevised 1972.	
USGS, 1969a	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Broad Brook, 1969; Manchester, 1969.	
USGS, 1969b	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Broad Brook, Connecticut, 1969; Springfield South, Massachusetts, 1969	

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USGS, 1969c	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Hartford South, CT, 1969; Glastonbury, CT, 1969.	
USGS, 1969d	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Winsted Quadrangle, 1956, Photo revised 1969	
USGS, 1970, 1972	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Windsor Locks, CT, 1972; Tariffville, CT, 1970.	
USGS, 1972, 1982, 1984	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		New Britain, CT, 1982; Meriden, CT, 1972; Middletown, CT, 1984; Hartford, CT, 1984.	

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Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article,"</i> Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972, 1984	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Manchester, Connecticut, 1963, Photo revised 1984; Marlborough, Connecticut, 1967, Photo revised 1984; Rockville, Connecticut, 1967, Photo revised 1984, Glastonbury, CT 1942, Photo revised 1972.	
USGS, 1972, 1992	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		New Britain, Connecticut, 1972; Bristol, CT, 1972; Southington, CT, 1968; photo revised 1992; Meriden, CT, 1972.	
USGS, 1972a	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Bristol, CT, 1966, Photorevised 1972.	

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USGS, 1972b	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Glastonbury, CT, 1964, Photorevised 1972; Marlborough, CT, 1967, Photorevised 1972.	
USGS, 1972c	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		New Britain, CT, 1972.	
USGS, 1972d	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		New Britain, CT, 1972; Bristol, CT, 1972.	
USGS, 1973	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Bristol, CT, 1973.	
USGS, 1984	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Marlborough, CT, 1984; Moodus, CT, 1984.	
USGS, 1992a	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		Manchester, CT, 1992.	

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USGS, 1992b	U.S. Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval: 10 feet.</i>	U.S. Department of the Interior, Geological Survey		New Britain, CT, 1966 Photorevised 1992; and Hartford South, CT 1964, Photorevised 1992.	
Weiss, 1975	U.S. Geological Survey	<i>Flood flow formulas for urbanized and nonurbanized areas of Connecticut: Watershed and Management Symposium, Logan, Utah, Irrigation and Drainage Division, American Society of Civil Engineers, p. 658-675.</i>	L.A. Weiss	U.S. Geological Survey, Connecticut	1975	
Weiss, 1983	Connecticut Department of Environmental Protection	<i>Evaluation and design of a streamflow-data network for Connecticut: Connecticut Water Resources Bulletin No. 36, 30 p.</i>	Weiss, L.A.: U.S. Geological Survey		1983	

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Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Weiss, 1990	U.S. Geological Survey	<i>Water Resources Investigations Report 89-4167, Effects of Urbanization on Peak Streamflows in Four Connecticut Communities, 1980-84</i>	Weiss, L.A.: U.S. Geological Survey	Hartford, Connecticut	1989	
West Hartford, 1990	Town of West Hartford	<i>Digital Topographic Map of West Hartford, CT, 1990: Scale 1:80, Contour Interval: 2 Feet, based on National Geodetic Vertical Datum of 1929.</i>			Photographs dated February 1990	
WHRA, 1975	West Hartford Redevelopment Agency	<i>Piper Brook Urban Renewal Project. Project No. CONN R-86 Site Improvement Contract No.7, "as-built" drawings</i>	West Hartford Redevelopment Agency		1975	