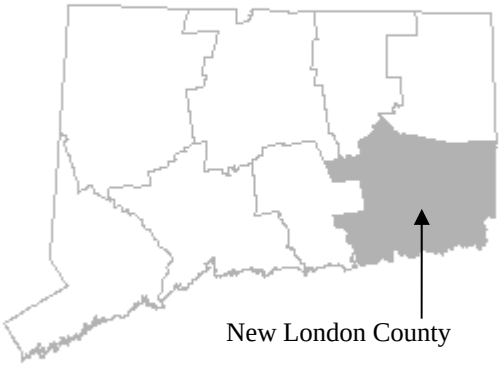
FLOOD INSURANCE STUDY

NEW LONDON COUNTY, CONNECTICUT
(ALL JURISDICTIONS)

Volume 2 of 4

COMMUNITY NAME	COMMUNITY NUMBER
BOZRAH, TOWN OF	090094
COLCHESTER, TOWN OF	090095
EAST LYME, TOWN OF	090096
FRANKLIN, TOWN OF	090154
GRISWOLD, TOWN OF	090173
GROTON LONG POINT ASSOCIATION	090167
GROTON, CITY OF	090126
GROTON, TOWN OF	090097
JEWETT CITY, BOROUGH OF	090098
LEBANON, TOWN OF	090155
LEDYARD, TOWN OF	090157
LISBON, TOWN OF	090172
LYME, TOWN OF	090127
MONTVILLE, TOWN OF	090099
NEW LONDON, CITY OF	090100
NOANK FIRE DISTRICT	090129
NORTH STONINGTON, TOWN OF	090101
NORWICH, CITY OF	090102
OLD LYME, TOWN OF	090103
PRESTON, TOWN OF	090139
SALEM, TOWN OF	090156
SPRAGUE, TOWN OF	090105
STONINGTON, BOROUGH OF	090193
STONINGTON, TOWN OF	090106
VOLUNTOWN, TOWN OF	090143
WATERFORD, TOWN OF	090107



Revised:
August 5, 2013

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
09011CV002B

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) report may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS report may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS report components.

Initial Countywide FIS Effective Date: July 18, 2011

Revised Countywide FIS Date: August 5, 2013

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	50	177	9.0	9.9 [2]	6.0 [3]	6.0	0.0
B	345	65	504	3.2	12.1	12.1	12.3	0.2
C	935	270	1447	1.1	14.4	14.4	14.4	0.0
D	2285	150	681	2.3	14.5	14.5	14.5	0.0
E	4220	250	1160	1.4	16.2	16.2	17.0	0.8
F	4981	100	884	1.6	22.8	22.8	22.8	0.0
G	5759	140	679	2.4	25.4	25.4	26.0	0.6
H	7899	500	1365	1.2	27.8	27.8	28.8	1.0
I	9329	180	464	3.5	32.8	32.8	33.6	0.8
J	11259	180	493	3.2	35.8	35.8	36.7	0.9
K	12723	120	665	2.4	40.5	40.5	41.5	1.0
L	12862	140	566	2.7	42.6	42.6	42.7	0.1
M	14064	250	1021	1.6	43.0	43.0	43.6	0.6
N	16914	94	392	4.1	47.8	47.8	48.4	0.6
O	17824	45	236	5.1	50.5	50.5	50.5	0.0
P	18594	80	425	2.8	55.9	55.9	56.7	0.8
Q	20844	300	568	2.1	59.9	59.9	60.6	0.7
R	21821	140	799	1.5	63.0	63.0	63.9	0.9
S	22981	60	153	7.5	64.8	64.8	65.2	0.4
T	23951	110	241	5.0	75.8	75.8	76.8	1.0

[1] FEET ABOVE CONFLUENCE WITH WEQUETEQUOCK COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

ANGUILLA BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,000	243	1,685	1.1	32.1	32.1	33.1	1.0
B	2,400	199	873	2.0	32.5	32.5	33.5	1.0
C	2,573	107	882	2.0	35.9	35.9	36.9	1.0
D	5,173	214	896	2.0	40.7	40.7	41.7	1.0
E	5,323	184	647	2.7	40.9	40.9	41.9	1.0
F	5,428	160	571	3.0	43.1	43.1	44.1	1.0
G	6,328	69	250	6.7	51.7	51.7	52.7	1.0
H	8,528	115	489	3.4	59.1	59.1	60.1	1.0

[1] FEET ABOVE CONFLUENCE WITH EIGHT MILE RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

BEAVER BROOK (TOWN OF LYME)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	142	41	186	6.7	83.6	76.6 [2]	76.9	0.3
B	451	215	254	4.9	83.6	83.5 [2]	83.5	0.0
C	851	30	178	7.1	87.5	87.5	87.7	0.2
D	1,101	37	248	5.1	91.5	91.5	91.5	0.0
E	1,291	130	610	2.1	101.7	101.7	101.7	0.0
F	2,183	38	201	6.2	103.0	103.0	103.6	0.6
G	2,978	87	165	7.6	108.9	108.9	109.0	0.1
H	3,237	160	1,356	0.8	125.1	125.1	126.0	0.9
I	3,986	39	191	6.6	126.0	126.0	126.3	0.3
J	6,426	243	863	1.5	131.5	131.5	132.3	0.8
K	6,698	240	1,330	0.9	134.2	134.2	134.8	0.6
L	7,440	172	729	1.7	134.3	134.3	134.9	0.6

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

BEAVER BROOK (TOWN OF SPRAGUE)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	190	20	210	3.8	9.6 [2]	8.3 [3]	8.3	0.0
B	610	40	275	2.9	9.6 [2]	8.7 [3]	8.7	0.0
C	840	290	3,588	0.1	9.6 [2]	8.7 [3]	9.1	0.4
D	1,420	280	2,815	0.2	9.6 [2]	8.7 [3]	9.1	0.4
E	2,120	100	1,211	0.4	9.6 [2]	8.7 [3]	9.1	0.4
F	2,770	40	389	1.2	9.6 [2]	8.7 [3]	9.2	0.5
G	4,270	40	495	0.9	9.6 [2]	8.7 [3]	9.2	0.5
H	5,250	40	391	1.2	9.6 [2]	8.7 [3]	9.3	0.6
I	6,290	70	519	0.9	9.6 [2]	8.7 [3]	9.4	0.7
J	6,390	40	284	1.1	9.6 [2]	8.7 [3]	9.4	0.7
K	6,660	310	522	0.6	9.7	9.7	9.7	0.0
L	6,985	260	2,895	0.1	27.7	27.7	27.7	0.0
M	7,645	185	1,391	0.2	27.7	27.7	27.7	0.0
N	8,115	35	77	3.9	27.7	27.7	27.7	0.0
O	8,465	20	42	7.2	39.1	39.1	39.1	0.0

[1] FEET ABOVE CONFLUENCE WITH BAKER COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

BIRCH PLAIN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	200	34	109	4.2	36.5	23.1 [2]	24.1	1.0
B	700	127	188	2.4	36.5	25.9 [2]	26.1	0.2
C	1,121	15	82	5.6	36.5	31.5 [2]	31.6	0.1
D	1,561	8	37	12.3	46.2	46.2	47.0	0.8
E	2,001	43	174	2.7	71.5	71.5	71.5	0.0
F	2,975	83	277	1.7	82.6	82.6	82.6	0.0
G	5,737	246	1,334	0.3	93.3	93.3	93.6	0.3
H	7,499	39	103	4.5	95.3	95.3	95.5	0.2
I	8,167	24	53	8.7	99.6	99.6	99.6	0.0
J	9,047	49	159	2.5	105.2	105.2	105.2	0.0
K	11,677	85	84	4.8	118.1	118.1	118.1	0.0
L	13,327	24	109	3.7	123.2	123.2	123.5	0.3

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

BLISSVILLE BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	449	110	945	0.3	87.1	87.1	87.1	0.0
B	1,579	50	50	6.0	91.8	91.8	91.8	0.0
C	1,790	70	125	2.4	103.9	103.9	103.9	0.0
D	2,307	40	45	6.7	118.2	118.2	118.3	0.1

[1] FEET ABOVE CONFLUENCE WITH YANTIC RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

BOBBIN MILL BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	250	1175	1.3	9.8 [2]	3.8 [3]	3.8	0.0
B	1766	200	445	3.4	9.8 [2]	9.6	10.2	0.6
C	2872	140	528	2.6	14.7	14.7	15.6	0.9
D	3962	98	439	3.4	20.4	20.4	20.5	0.1
E	4452	90	232	6.6	21.7	21.7	21.7	0.0
F	4614	60	206	7.3	25.5	25.5	25.6	0.1
G	5444	295	787	1.9	44.3	44.3	44.3	0.0
H	6594	470	1291	1.2	44.3	44.3	44.3	0.0
I	7694	55	160	9.4	44.6	44.6	44.6	0.0

[1] STREAM DISTANCE IN FEET ABOVE QUIAMBOG COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

COPPS BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	-90	75	237	9.7	161.2	161.2	161.2	0.0
B	60	75	282	8.1	163.5	163.5	163.5	0.0
C	915	75	235	9.8	170.7	170.7	170.7	0.0
D	2,383	63	229	10.0	185.6	185.6	185.9	0.3
E	3,770	75	345	6.7	194.4	194.4	194.5	0.1
F	4,705	100	251	9.2	200.6	200.6	200.7	0.1
G	6,082	300	1,110	2.1	203.9	203.9	204.3	0.4
H	7,372	400	1,498	1.5	204.4	204.4	205.1	0.7
I	8,688	680	2,181	1.1	204.8	204.8	205.7	0.9
J	9,573	700	1,872	1.2	205.3	205.3	206.0	0.7
K	9,691	400	1,011	2.3	205.4	205.4	206.0	0.6
L	10,065	310	1,545	1.5	208.4	208.4	208.4	0.0
M	11,192	400	1,267	1.8	208.6	208.6	208.6	0.0
N	12,770	600	1,200	1.9	209.6	209.6	210.0	0.4
O	13,350	700	1,632	1.4	209.8	209.8	210.8	1.0
P	13,885	75	240	9.6	211.1	211.1	211.2	0.1
Q	14,060	75	404	4.6	213.3	213.3	213.3	0.0
R	14,242	200	567	3.3	213.5	213.5	213.5	0.0
S	15,060	441	814	2.3	214.2	214.2	215.2	1.0

[1] FEET ABOVE DARLING ROAD

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

EAST BRANCH EIGHT MILE RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	195 [1]	50	328	3.1	9.7 [3]	7.8 [4]	7.8	0.0
B	1,195 [1]	180	720	1.4	9.7 [3]	8.6 [4]	9.6	1.0
C	1,646 [1]	50	161	6.4	10.8	10.8	11.0	0.2
D	1,848 [1]	50	249	4.1	13.2	13.2	13.2	0.0
E-M	*	*	*	*	*	*	*	*
N	5,450 [2]	40	100	7.2	33.8	33.8	34.8	1.0
O	5,810 [2]	95	571	0.9	35.2	35.2	36.2	1.0

[1] FEET ABOVE PALMER COVE

[2] FEET ABOVE STATE ROUTE 215

[*] FLOODWAY DATA NOT AVAILABLE. CROSS SECTIONS ARE SHOWN ON FIRM FOR REFERENCE.

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS; PLEASE REFER TO THE ASSOCIATED DFIRM PANEL FOR BASE FLOOD ELEVATIONS

[4] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

ECCLESTON BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	11,690	128	1,802	5.7	12.3	12.3	13.3	1.0
B	13,290	297	3,053	3.4	13.9	13.9	14.9	1.0
C	15,890	242	1,872	5.5	19.9	19.9	20.9	1.0
D	16,990	104	1,234	8.3	24.1	24.1	25.1	1.0
E	17,166	78	671	15.2	31.3	31.3	31.8	0.5
F	19,666	185	1,569	5.6	32.7	32.7	33.7	1.0
G	20,746	484	3,876	2.3	36.1	36.1	37.1	1.0
H	20,841	232	2,308	3.8	36.8	36.8	37.8	1.0
I	22,491	339	2,813	3.1	38.2	38.2	39.2	1.0
J	26,141	221	1,649	5.4	46.3	46.3	47.3	1.0
K	28,641	533	2,909	3.0	49.6	49.6	50.6	1.0
L	30,141	318	1,948	4.6	53.4	53.4	54.4	1.0
M	30,685	287	2,169	2.1	56.0	56.0	57.0	1.0

[1] FEET ABOVE CONFLUENCE WITH CONNECTICUT RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	310	115	814	1.3	20.9	20.9	21.9	1.0
B	930	110	669	1.6	21.4	21.4	22.4	1.0
C	1,560	65	447	2.2	22.3	22.3	23.3	1.0
D	2,140	40	106	6.2	24.8	24.8	25.8	1.0
E	2,540	45	233	3.1	25.6	25.6	26.6	1.0
F	3,370	95	879	1.1	27.8	27.8	28.8	1.0
G	4,450	45	154	4.7	28.2	28.2	29.2	1.0

[1] FEET ABOVE CONFLUENCE WITH ECCLESTON BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

FISHTOWN BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,804	18	43	8.8	19.3	19.3	19.3	0.0
B	3,293	23	71	5.3	30.9	30.9	31.0	0.1
C	3,453	22	46	8.3	34.0	34.0	34.0	0.0
D	3,836	227	99	3.8	45.6	45.6	45.6	0.0
E	3,906	227	896	0.4	45.9	45.9	45.9	0.0
F	4,646	21	51	7.5	49.4	49.4	49.6	0.2
G	4,842	114	376	1.0	53.7	53.7	54.0	0.3
H	4,979	165	528	0.7	54.3	54.3	55.3	1.0
I	5,083	180	576	0.7	55.3	55.3	56.3	1.0

[1] FEET ABOVE CONFLUENCE WITH MILL COVE

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

FLAT BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	322	30	185	4.4	28.8	28.8	29.6	0.8
B	1,658	50	185	4.4	42.6	42.6	43.1	0.5
C	2,999	80	250	2.3	52.9	52.9	52.9	0.0
D	4,324	40	245	2.3	59.4	59.4	60.2	0.8
E	5,565	130	360	1.6	59.7	59.7	60.7	1.0
F	5,665	70	85	6.5	63.6	63.6	63.7	0.1
G	6,558	410	2,395	0.2	64.0	64.0	64.0	0.0
H	9,024	40	235	0.7	99.4	99.4	99.4	0.0
I	10,169	30	115	1.4	99.4	99.4	99.7	0.3

[1] FEET ABOVE CONFLUENCE WITH TRADING COVE BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

FORD BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	630	50	328	1.7	9.7 [2]	7.1 [3]	7.1	0.0
B	1,290	40	205	2.7	9.7 [2]	7.1 [3]	7.3	0.2
C	2,275	100	395	1.4	9.7 [2]	7.7 [3]	8.0	0.3
D	3,524	100	246	2.3	10.4	10.4	10.6	0.2
E	5,024	100	281	2.0	11.1	11.1	11.6	0.5
F	6,364	80	355	1.4	12.7	12.7	13.2	0.5
G	7,874	80	169	2.9	13.8	13.8	14.8	1.0
H	8,594	80	104	4.7	42.8	42.8	42.8	0.0
I	10,524	32	58	8.4	68.6	68.6	68.6	0.0
J	12,164	80	263	1.9	74.2	74.2	74.6	0.4
K	13,444	21	54	9.1	87.5	87.5	87.5	0.0

[1] FEET ABOVE CONFLUENCE WITH MUMFORD COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

FORT HILL BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,030	50	378	2.4	9.3 [2]	3.3 [3]	3.4	0.1
B	2,570	50	416	2.2	9.3 [2]	3.3 [3]	3.7	0.4
C	3,970	40	236	3.9	9.3 [2]	4.2 [3]	4.7	0.5
D	5,020	30	235	3.7	9.3 [2]	8.2 [3]	8.5	0.3
E	6,400	40	96	9.0	11.0	11.0	11.2	0.2
F	6,645	70	492	1.7	23.8	23.8	24.7	0.9
G	7,745	35	184	4.7	25.2	25.2	26.1	0.9
H	8,545	35	93	9.3	40.6	40.6	40.6	0.0
I	8,855	17	150	5.7	48.7	48.7	48.7	0.0
J	9,295	20	179	4.8	50.1	50.1	50.6	0.5
K	10,065	150	865	1.0	51.3	51.3	52.2	0.9
L	10,825	80	283	2.9	51.3	51.3	52.3	1.0
M	11,485	80	435	1.9	52.1	52.1	52.8	0.7
N	12,185	50	338	2.5	53.9	53.9	54.3	0.4
O	13,245	40	217	3.8	53.9	53.9	54.8	0.9
P	13,935	40	453	1.8	55.2	55.2	55.7	0.5
Q	14,655	50	175	4.7	58.0	58.0	58.7	0.7
R	16,105	50	201	4.1	61.6	61.6	62.4	0.8
S	17,155	50	167	5.0	64.8	64.8	65.6	0.8
T	18,925	50	159	5.2	72.4	72.4	73.4	1.0

[1] FEET ABOVE CONFLUENCE WITH LONG ISLAND SOUND

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM LONG ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

FOURMILE RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	145	46	433	3.5	154.9	154.9	155.9	1.0
B	460	68	579	2.6	155.1	155.1	156.0	0.9
C	700	401	4,072	0.4	155.3	155.3	156.2	0.9
D	830	431	4,532	0.3	156.0	156.0	156.8	0.8
E	1,310	706	7,671	0.2	156.0	156.0	156.8	0.8
F	2,122	601	5,931	0.3	156.0	156.0	156.8	0.8
G	2,945	61	463	3.2	156.0	156.0	156.8	0.8
H	3,465	60	335	4.5	156.1	156.1	156.9	0.8
I	4,235	61	332	4.5	156.7	156.7	157.7	1.0
J	5,010	51	141	10.6	159.4	159.4	159.4	0.0
K	5,180	90	245	6.1	163.1	163.1	163.1	0.0
L	5,568	70	244	6.2	163.6	163.6	164.5	0.9
M	5,695	140	851	1.8	168.9	168.9	168.9	0.0
N	6,260	190	779	1.9	169.0	169.0	169.0	0.0
O	6,988	100	206	7.3	171.1	171.1	171.1	0.0
P	8,662	*	196	7.6	180.4	180.4	181.2	0.8
Q	8,788	35	249	6.0	184.2	184.2	184.2	0.0
R	9,615	81	573	2.6	184.8	184.8	184.9	0.1
S	11,115	36	119	10.5	193.3	193.3	193.3	0.0
T	11,265	46	296	4.2	196.1	196.1	196.1	0.0
U	11,550	51	268	4.7	196.3	196.3	196.4	0.1
V	11,900	26	108	11.6	197.5	197.5	197.5	0.0
W	12,200	26	164	7.6	200.8	200.8	200.9	0.1
X	12,575	31	122	10.2	202.8	202.8	202.8	0.0
Y	13,285	66	263	4.8	205.9	205.9	206.4	0.5
Z	13,535	131	462	2.7	206.4	206.4	207.0	0.6
AA	13,685	31	196	6.4	211.0	211.0	211.0	0.0

[1] FEET ABOVE CONFLUENCE WITH YANTIC RIVER

* FLOODWAY COINCIDENT WITH CHANNEL BANKS

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

GARDNER BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	602	70	130	4.9	69.8	69.8	69.8	0.0
B	1,336	60	250	2.6	76.9	76.9	76.9	0.0

[1] FEET ABOVE CONFLUENCE WITH TRADING COVE BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

GOLDMINE BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	428	31	78	9.0	36.9	36.9	36.9	0.0
B	1,331	26	135	3.5	74.4	74.4	74.8	0.4
C	1,943	19	54	9.5	78.1	78.1	78.1	0.0
D	3,210	140	115	4.5	85.0	85.0	85.0	0.0
E	4,050	100	450	1.1	86.5	86.5	87.5	1.0
F	5,359	70	250	1.2	88.9	88.9	89.0	0.1

[1] FEET ABOVE CONFLUENCE WITH TRADING COVE BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

GREAT PLAIN BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,170	80	399	4.9	54.6	54.6	54.9	0.3
B	9,010	100	370	5.3	60.9	60.9	61.3	0.4
C	11,170	80	377	5.2	64.6	64.6	64.8	0.2
D	13,705	55	249	6.4	68.8	68.8	69.5	0.7
E	13,904	25	207	7.7	69.8	69.8	70.1	0.3
F	14,644	50	262	6.1	72.9	72.9	73.4	0.5
G	14,880	75	399	4.0	74.1	74.1	74.5	0.4
H	15,240	70	162	8.3	75.2	75.2	75.5	0.3
I	15,420	100	419	3.2	76.7	76.7	77.6	0.9

[1] FEET ABOVE WELLSTOWN ROAD

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

GREEN FALL RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	327	97	165	6.1	214.9	214.9	215.9	1.0
B	522	100	295	3.4	218.9	218.9	218.9	0.0
C	1,370	38	105	9.5	222.0	222.0	222.0	0.0
D	2,292	39	156	6.4	229.0	229.0	229.1	0.1
E	4,400	46	210	4.8	236.5	236.5	237.2	0.7
F	4,822	114	426	2.3	237.3	237.3	238.2	0.9
G	5,932	30	97	10.3	245.1	245.1	245.1	0.0
H	6,150	58	121	8.3	256.7	256.7	257.0	0.3
I	6,740	48	192	5.2	259.9	259.9	260.7	0.8
J	7,212	40	146	6.9	261.9	261.9	262.2	0.3
K	7,335	35	270	3.7	265.0	265.0	265.0	0.0
L	8,190	56	396	1.4	265.0	265.0	265.4	0.4
M	8,840	60	269	2.0	265.0	265.0	265.5	0.5
N	8,990	60	337	1.6	266.4	266.4	267.0	0.6
O	9,815	60	270	2.0	266.4	266.4	267.2	0.8
P	9,968	170	188	2.9	266.5	266.5	267.3	0.8
Q	10,778	180	318	1.7	267.8	267.8	268.8	1.0
R	12,020	100	115	4.7	272.5	272.5	272.9	0.4
S	12,920	35	95	5.8	278.9	278.9	279.6	0.7
T	13,050	45	251	2.2	284.0	284.0	284.0	0.0
U	13,400	30	79	6.9	285.0	285.0	285.7	0.7
V	13,600	22	59	9.4	289.8	289.8	289.8	0.0
W	13,675	145	1,300	0.4	299.8	299.8	299.8	0.0
X	14,190	35	105	5.3	299.8	299.8	299.8	0.0
Y	15,020	45	122	4.5	301.8	301.8	302.8	1.0
Z	15,980	30	133	4.1	304.7	304.7	305.2	0.5
AA	17,030	93	318	1.7	305.5	305.5	306.3	0.8

[1] FEET ABOVE CONFLUENCE WITH EAST BRANCH EIGHTMILE RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

HARRIS BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	18,040	35	92	6.0	307.3	307.3	307.5	0.2

[1] FEET ABOVE CONFLUENCE WITH EAST BRANCH EIGHTMILE RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

HARRIS BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	120	50	403	0.8	35.4	32.4 [2]	32.4	0.0
B	500	50	265	1.2	35.4	32.4 [2]	32.4	0.0
C	1,305	50	173	1.8	35.4	32.4 [2]	32.6	0.2
D	1,690	10	57	5.6	35.4	33.0 [2]	33.7	0.7
E	1,935	28	87	3.7	35.6	35.6	35.8	0.2
F	1,960	46	108	3.0	41.2	41.2	41.6	0.4
G	2,220	20	61	5.3	42.8	42.8	42.9	0.1
H	2,305	22	82	3.9	44.7	44.7	45.4	0.7
I	2,455	17	93	3.4	47.3	47.3	47.7	0.4
J	2,500	48	303	1.1	49.3	49.3	49.5	0.2
K	2,960	30	131	2.4	51.9	51.9	51.9	0.0
L	3,065	7	40	8.1	52.1	52.1	52.2	0.1
M	3,090	8	59	5.4	53.9	53.9	54.6	0.7
N	3,200	12	82	3.9	54.7	54.7	55.3	0.6
O	3,300	24	42	7.6	57.2	57.2	57.2	0.0
P	3,500	30	62	5.2	67.5	67.5	67.6	0.1
Q	4,000	80	179	1.8	70.8	70.8	71.7	0.9

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

HUNTER BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,600	40	340	14.1	234.9	234.9	235.9	1.0
B	8,300	86 / 45 [2]	1,116	2.7	244.4	244.4	245.3	0.9

[1] FEET ABOVE STATE ROUTE 149

[2] WIDTH / WIDITH WITHIN NEW LONDON COUNTY

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

JEREMY RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	100	32	216	3.3	11.9	6.7 [2]	7.7	1.0
B	233	20	79	7.7	11.9	6.8 [2]	7.7	0.9
C	560	20	61	10.0	15.9	15.9	16.2	0.3
D	1,453	45	141	5.3	20.8	20.8	21.7	0.9
E	1,803	26	66	9.2	24.7	24.7	24.7	0.0
F	2,088	15	55	11.0	29.8	29.8	29.8	0.0
G	2,423	71	288	2.4	31.3	31.3	31.3	0.0
H	3,523	90	311	2.3	32.1	32.1	33.0	0.9
I	3,643	44	151	4.5	32.1	32.1	33.1	1.0
J	4,343	135	263	3.0	34.0	34.0	34.9	0.9
K	4,673	75	184	4.2	34.8	34.8	35.8	1.0
L	4,878	28	95	7.2	36.3	36.3	36.6	0.3
M	6,458	22	63	9.7	42.9	42.9	42.9	0.0
N	7,318	55	245	2.5	47.3	47.3	48.2	0.9
O	7,578	63	148	4.1	48.4	48.4	49.2	0.8
P	8,028	37	105	7.0	52.5	52.5	53.0	0.5
Q	8,428	54	136	5.5	54.9	54.9	55.7	0.8
R	8,738	66	137	4.5	57.3	57.3	57.3	0.0

[1] FEET ABOVE CONFLUENCE WITH POQUETANUCK COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM POQUETANUCK COVE

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

JOE CLARK BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	50	100	221	6.8	9.8	9.7 [2]	9.7	0.0
B	1,300	350	2,402	0.6	14.9	14.9	15.9	1.0
C	2,400	350	2,417	0.3	14.9	14.9	15.9	1.0
D	3,930	130	480	1.5	15.1	15.1	16.1	1.0
E	5,800	40	228	3.2	27.9	27.9	28.1	0.2
F	6,590	36	163	4.5	30.4	30.4	30.6	0.2
G	7,620	82	138	5.3	31.7	31.7	32.7	1.0
H	9,120	140	916	0.8	35.1	35.1	35.6	0.5
I	10,830	120	229	3.2	44.5	44.5	45.0	0.5
J	12,155	40	127	5.8	53.3	53.3	53.3	0.0
K	13,470	38	124	5.9	61.1	61.1	61.1	0.0
L	15,120	150	1,055	0 6	62.9	62.9	63.4	0.5
M	17,740	100	219	2 7	77.6	77.6	78.0	0.4
N	19,440	60	90	4.8	90.0	90.0	90.1	0.1
O	21,560	82	114	3.8	103.3	103.3	103.3	0.0
P	22,860	40	107	4.0	108.4	108.4	108.9	0.5
Q	24,265	50	141	3.0	117.3	117.3	117.9	0.6
R	25,825	50	119	3.6	117.7	117.7	118.5	0.8
S	27,105	50	78	5.5	120.6	120.6	121.1	0.5

[1] FEET ABOVE CONFLUENCE WITH JORDAN COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM LONG ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

JORDAN BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	20	177 / 37 [2]	442	1.4	343.3	343.3	343.3	0.0
B	2,500	82	73	5.5	354.9	354.9	354.9	0.0
C	3,150	14	41	9.7	366.0	366.0	366.3	0.3
D	4,250	55	72	5.5	392.8	392.8	392.9	0.1
E	6,350	132	406	0.5	410.5	410.5	410.5	0.0
F	7,600	519	1,742	0.1	410.5	410.5	410.5	0.0
G	11,100	75	212	0.9	410.5	410.5	410.5	0.0
H	13,350	140	1,466	0.1	429.4	429.4	429.4	0.0
I	14,690	22	41	4.9	458.6	458.6	458.6	0.0
J	16,900	52	40	5.0	491.8	491.8	491.8	0.0

[1] FEET ABOVE OLD HEBRON ROAD

[2] WIDTH / WIDTH WITHIN NEW LONDON COUNTY

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

JUDD BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	240	107	631	3.3	9.4 [2]	3.9 [3]	4.9	1.0
B	1380	45	229	9.2	9.4 [2]	8.9 [3]	9.7	0.8
C	2880	60	212	9.9	31.7	31.7	31.7	0.0
D	3,295	115	281	7.5	42.1	42.1	42.1	0.0
E	4,000	55	562	3.7	46.3	46.3	46.4	0.1
F	4,980	150	745	2.8	46.4	46.4	46.6	0.2
G	6,030	200	677	3.1	46.9	46.9	47.5	0.6
H	7,580	200	651	3.2	49.2	49.2	49.9	0.7
I	9,080	120	508	4.1	55.4	55.4	56.4	1.0
J	10,130	220	941	2.2	57.8	57.8	58.7	0.9
K	11,450	170	673	3.1	60.8	60.8	61.8	1.0
L	13,010	120	1020	2.1	69.0	69.0	69.0	0.0
M	14,070	120	856	2.5	69.1	69.1	69.3	0.2
N	15,920	120	689	3.0	69.2	69.2	70.1	0.9
O	17,520	650	3576	0.6	70.2	70.2	71.0	0.8
P	18,580	170	567	3.7	70.6	70.6	71.4	0.8
Q	20,010	125	641	3.3	73.9	73.9	74.9	1.0
R	20,950	125	795	2.6	77.3	77.3	77.7	0.4
S	22,070	286	1248	1.7	77.7	77.7	78.7	1.0
T	23,300	85	371	5.3	80.1	80.1	80.8	0.7
U	23,499	135	694	2.8	82.1	82.1	82.8	0.7
V	24,990	56	387	5.1	90.2	90.2	91.1	0.9
W	26,015	31	256	7.7	93.8	93.8	94.4	0.6
X	26,818	73	405	4.9	96.3	96.3	96.9	0.6
Y	27,420	58	220	8.9	100.2	100.2	100.8	0.6
Z	30,945	121	699	2.8	124.6	124.6	125.5	0.9
AA	32,413	192	1082	1.8	126.7	126.7	127.5	0.8

[1] FEET ABOVE CONFLUENCE WITH NIANTIC RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM NIANTIC RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

LATIMER BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	34,617	185	1,128	1.7	129.5	129.5	130.3	0.8
AC	37,285	103	372	5.1	132.9	132.9	133.7	0.8
AD	38,875	201	913	2.1	139.0	139.0	140.0	1.0
AE	39,085	260	1,368	1.4	141.2	141.2	141.7	0.5
AF	39,706	332	1,811	0.9	143.9	143.9	144.8	0.9
AG	41,006	216	1,286	1.2	148.8	148.8	149.7	0.9

[1] FEET ABOVE CONFLUENCE WITH NIANTIC RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

LATIMER BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,625	178	797	6.0	63.9	63.9	64.8	0.9
B	2,235	269	333	14.3	66.9	66.9	67.1	0.2
C	2,695	95	736	6.5	71.8	71.8	72.2	0.4
D	3,780	293	3,134	1.5	82.5	82.5	82.5	0.0
E	7,195	410	1,500	3.2	82.9	82.9	83.0	0.1
F	7,850	79	439	10.9	83.9	83.9	84.1	0.2
G	8,725	113	842	5.7	91.2	91.2	91.2	0.0
H	9,760	257	779	6.1	92.6	92.6	92.6	0.0
I	11,530	70	494	9.7	97.0	97.0	97.1	0.1

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

LITTLE RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	51	486	3.7	243.1	243.1	243.9	0.8
B	1,600	81	584	3.1	243.9	243.9	244.7	0.8
C	3,000	149	432	4.2	245.0	245.0	245.7	0.7
D	3,140	163	852	2.1	248.6	248.6	248.7	0.1
E	5,100	162	429	4.2	250.1	250.1	250.5	0.4
F	6,700	368	382	4.7	254.7	254.7	254.7	0.0
G	10,500	447	1,921	0.7	264.9	264.9	265.2	0.3
H	11,750	275	262	5.4	269.0	269.0	269.0	0.0
I	12,600	34	136	10.3	274.7	274.7	275.2	0.5

[1] FEET ABOVE CONFLUENCE WITH JEREMY RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

MEADOW BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,480	50	86	5.1	15.5	15.5	15.7	0.2
B	2,040	40	208	2.1	20.6	20.6	20.6	0.0
C	4,110	60	105	4 2	24.3	24.3	24.3	0.0
D	6,650	30	103	4.3	29.7	29.7	30.6	0.9
E	7,225	40	222	1.6	32.8	32.8	32.9	0.1
F	9,120	40	145	2.4	32.8	32.8	33.7	0.9
G	10,050	50	263	1.3	40.2	40.2	40.2	0.0
H	11,660	30	74	4.8	45.4	45.4	45.6	0.2

[1] FEET ABOVE CONFLUENCE WITH JORDAN BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

NEVINS BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	400	40	*	*	*	*	*	*
B	1,455	40	*	*	*	*	*	*
C	1,605	50	150	3.6	92.1	92.1	92.9	0.8
D	1,745	60	330	1.6	92.3	92.3	93.3	1.0
E	2,015	50	220	2.4	92.4	92.4	93.3	0.9
F	2,250	50	190	2.8	93.8	93.8	94.2	0.4

[1] FEET ABOVE CONFLUENCE WITH YANTIC RIVER

* DATA NOT AVAILABLE

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

NORWICHTOWN BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	75	65	324	5.2	11.6	4.6 [2]	4.6	0.0
B	730	220	815	2.1	18.0	18.0	18.0	0.0
C	1,734	115	457	3.7	24.4	24.4	24.4	0.0
D	2,419	60	196	8.7	29.5	29.5	29.8	0.3
E	2,709	180	653	2.6	48.2	48.2	48.2	0.0
F	2,964	170	581	2.9	66.3	66.3	66.3	0.0
G	4,099	50	318	5.4	69.3	69.3	69.3	0.0
H	5,634	70	396	4.3	69.6	69.6	69.7	0.1
I	6,404	215	438	3.9	73.3	73.3	73.3	0.0
J	7,025	37	425	4.0	91.0	91.0	91.6	0.6
K	7,180	140	269	6.3	115.1	115.1	115.1	0.0
L	9,058	90	207	8.2	120.7	120.7	120.7	0.0
M	10,385	45	250	6.8	166.5	166.5	167.4	0.9
N	10,835	60	193	8.8	168.6	168.6	168.6	0.0
O	11,655	120	526	3.2	187.5	187.5	187.5	0.0
P	12,505	43	154	11.0	196.9	196.9	196.9	0.0
Q	12,825	55	169	10.0	206.6	206.6	206.6	0.0
R	12,965	32	141	12.0	213.4	213.4	213.4	0.0
S	13,585	70	182	9.3	225.6	225.6	226.1	0.5

[1] FEET ABOVE CONFLUENCE WITH HORTON COVE

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM THAMES RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

OXOBOXO BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	820	80	416	5.2	84.7	79.7 [2]	80.5	0.8
B	1,427	94	726	3.0	89.4	89.4	89.4	0.0
C	2,362	160	1,116	1.9	109.2	109.2	109.2	0.0
D	3,680	72	535	4.0	109.7	109.7	109.7	0.0
E	4,396	445	2,963	0.7	127.7	127.7	127.7	0.0
F	4,796	825	5,050	0.4	127.7	127.7	127.7	0.0
G	7,955	521	2,516	0.9	127.8	127.8	127.8	0.0
H	9,945	260	941	2.3	128.0	128.0	128.0	0.0
I	10,285	400	3,295	0.7	132.3	132.3	132.3	0.0
J	13,255	120	890	2.4	133.0	133.0	133.3	0.3
K	13,987	84	658	3.3	133.3	133.3	133.5	0.2
L	14,807	126	757	2.8	133.7	133.7	134.1	0.4
M	15,527	109	626	3.0	138.4	138.4	138.4	0.0
N	15,955	305	2,122	0.9	150.8	150.8	150.8	0.0
O	16,376	509	5,277	0.4	151.0	151.0	151.0	0.0
P	25,061	345	3,845	0.5	151.3	151.3	151.3	0.0
Q	32,109	206	1,597	1.2	152.2	152.2	152.2	0.0
R	34,283	81	924	2.0	152.9	152.9	153.0	0.1
S	35,313	120	234	8.0	158.8	158.8	158.8	0.0

[1] FEET ABOVE CONFLUENCE WITH QUINEBAUG RIVER

[4] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM QUINEBAUG RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

PACHAUG RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,250	360	1,897	0.6	9.4 [2]	3.4 [3]	3.4	0.0
B	3,070	130	573	2.1	9.4 [2]	3.6 [3]	3.6	0.0
C	5,070	70	503	2.4	9.4 [2]	3.8 [3]	4.1	0.3
D	7,320	70	375	3.2	9.4 [2]	3.8 [3]	4.4	0.6
E	9,620	130	577	1.7	10.2	10.2	10.8	0.6
F	10,270	100	364	2.7	12.0	12.0	12.2	0.2
G	11,670	150	487	2.1	13.5	13.5	14.4	0.9
H	12,430	200	1,365	0.7	18.8	18.8	18.8	0.0
I	13,740	60	185	5.4	19.4	19.4	20.1	0.7
J	14,220	120	531	1.9	24.5	24.5	24.6	0.1
K	14,735	180	322	3.1	27.6	27.6	27.6	0.0
L	15,655	460	935	1.1	27.6	27.6	27.7	0.1
M	17,165	510	951	1.1	27.6	27.6	27.7	0.1
N	18,345	370	762	1.3	27.6	27.6	27.7	0.1
O	20,178	140	320	3.1	30.7	30.7	31.2	0.5
P	21,788	80	168	5.9	33.5	33.5	33.6	0.1
Q	22,588	60	323	3.1	37.4	37.4	37.6	0.2
R	24,088	60	341	2.6	41.0	41.0	41.0	0.0
S	25,653	140	675	1.3	41.9	41.9	42.8	0.9
T	26,653	110	248	3.6	42.6	42.6	43.6	1.0
U	27,628	190	490	1.8	47.8	47.8	48.1	0.3
V	29,078	140	333	2.7	50.7	50.7	51.1	0.4
W	30,048	98	149	5.2	57.3	57.3	57.6	0.3

[1] FEET ABOVE CONFLUENCE WITH LONG ISLAND SOUND

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM LONG ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

PATTAGANSETT RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	31,500	120 / 70 [2]	801	7.1	11.4	11.4	11.4	0.0
B	32,840	120 / 60 [2]	862	6.6	13.5	13.5	13.6	0.1
C	34,250	159 / 100 [2]	1,113	5.1	14.9	14.9	15.5	0.6
D	35,670	120 / 82 [2]	892	6.4	16.0	16.0	16.9	0.9
E	37,060	495 / 85 [2]	2363	2.4	18.2	18.2	18.9	0.7
F	37,675	201 / 90 [2]	2054	2.8	22.2	22.2	22.3	0.1
G	41,274	109 / 49 [2]	1090	4.8	23.0	23.0	23.2	0.2
H	45,948	146 / 100 [2]	1475	3.5	25.0	25.0	25.2	0.2
I	51,898	111 / 60 [2]	1210	4.3	26.6	26.6	27.0	0.4

[1] FEET ABOVE CONFLUENCE WITH LITTLE NARRAGANSETT BAY

[2] WIDTH / WIDTH WITHIN NEW LONDON COUNTY

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

PAWCATUCK RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,205	35	62	7.7	10.8	9.4	9.4	0.0
B	3,266	190	982	0.5	23.3	23.3	24.3	1.0
C	3,716	21	84	5.7	23.3	23.3	24.3	1.0
D	4,276	146	754	0.6	23.3	23.3	24.3	1.0
E	4,506	139	978	0.5	28.1	28.1	29.1	1.0
F	4,791	205	1,503	0.3	28.1	28.1	29.1	1.0
G	5,276	235	1,329	0.4	28.1	28.1	29.1	1.0
H	5,666	71	411	1.2	28.1	28.1	29.1	1.0

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

PINE SWAMP BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,645	*	5,960	3.7	50.0	50.0	50.0	0.0
B	2,010	*	3,194	7.0	50.0	50.0	50.0	0.0
C	2,765	*	2,967	7.5	50.0	50.0	50.0	0.0
D	3,545	*	6,725	3.3	50.6	50.6	50.6	0.0
E	6,120	*	4,413	5.0	50.8	50.8	50.9	0.1
F	7,270	*	2,272	9.8	50.8	50.8	50.9	0.1
G	8,480	*	2,015	11.0	54.5	54.5	54.6	0.1
H	9,390	*	3,130	7.1	58.3	58.3	58.4	0.1
I	12,760	*	2,890	7.7	63.7	63.7	64.1	0.4
J	14,730	*	3,083	7.2	67.2	67.2	67.5	0.3
K	16,310	*	3,139	7.1	70.0	70.0	70.3	0.3
L	18,745	*	3,120	7.1	74.1	74.1	74.3	0.2
M	20,395	372	5,191	4.3	76.0	76.0	76.3	0.3
N	21,795	273	3,968	5.4	76.7	76.7	77.2	0.5
O	23,465	322	3,848	5.6	78.2	78.2	78.7	0.5
P	25,580	239	4,055	5.3	79.8	79.8	80.5	0.7
Q	27,810	436	6,331	3.4	80.9	80.9	81.7	0.8
R	30,280	352	4,533	4.8	81.6	81.6	82.4	0.8
S	31,365	513	4,691	4.6	82.2	82.2	83.0	0.8
T	32,350	370	5,240	4.1	82.8	82.8	83.7	0.9
U	33,645	446	4,290	5.0	83.4	83.4	84.3	0.9
V	34,215	385	4,457	4.8	83.8	83.8	84.8	1.0
W	34,855	253	4,847	4.4	84.5	84.5	85.4	0.9
X	35,804	245	4,302	4.2	84.9	84.9	85.8	0.9
Y	36,090	200	3,400	5.3	85.5	85.5	86.3	0.8
Z	37,099	661	7,336	2.5	86.3	86.3	87.1	0.8
AA	38,874	217	3,454	5.2	87.2	87.2	88.0	0.8

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

* FLOODWAY COINCIDENT WITH CHANNEL BANKS

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

QUINEBAUG RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	39,919	438	5,772	3.1	88.2	88.2	89.0	0.8
AC	40,105	490	7,301	2.5	98.8	98.8	98.8	0.0
AD	41,105	854	10,756	1.7	98.9	98.9	98.9	0.0
AE	44,925	681	9,887	1.8	99.1	99.1	99.1	0.0
AF	47,870	1,760	19,339	1.1	99.2	99.2	99.2	0.0
AG	50,235	529	7,468	2.4	99.2	99.2	99.2	0.0

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

QUINEBAUG RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	16,000	193	2,967	15.2	14.4	-1.1 [2]	-0.1	1.0
B	16,422	115	3,834	11.8	14.4	2.0 [2]	2.4	0.4
C	16,739	229	3,659	12.3	14.4	2.6 [2]	3.0	0.4
D	17,162	256	3,120	14.5	14.4	3.4 [2]	3.8	0.4
E	18,059	372	6,484	7.0	14.4	8.7 [2]	8.8	0.1
F	18,587	302	4,167	10.8	14.4	9.1 [2]	9.2	0.1
G	19,590	435	6,250	7.2	14.4	12.5 [2]	12.5	0.0
H	20,224	316	6,075	7.4	14.4	13.4 [2]	13.4	0.0
I	20,963	512	7,581	5.9	14.8	14.8	14.9	0.1
J	21,702	423	6,046	7.5	15.7	15.7	15.8	0.1
K	22,442	433	6,787	6.6	17.6	17.6	17.8	0.2
L	23,339	342	6,557	6.9	18.9	18.9	19.1	0.2
M	24,870	262	6,112	8.4	22.0	22.0	22.8	0.8
N	26,190	428	8,860	5.1	24.3	24.3	25.2	0.9
O	26,824	560	8,231	5.5	30.8	30.8	30.8	0.0
P	28,725	435	7,809	5.8	32.4	32.4	32.7	0.3
Q	31,893	650	13,438	3.4	35.1	35.1	35.4	0.3
R	33,002	945	17,430	2.6	35.5	35.5	35.8	0.3
S	33,477	605	12,155	3.7	35.6	35.6	35.9	0.3
T	34,058	260	4,934	6.6	35.9	35.9	35.9	0.0
U	34,480	395	8,342	3.9	36.3	36.3	36.6	0.3
V	35,906	955	12,721	3.6	36.6	36.6	37.6	1.0
W	37,120	330	5,754	5.6	37.6	37.6	38.4	0.8
X	37,595	235	4,073	8.0	38.0	38.0	38.9	0.9
Y	37,912	240	4,499	7.2	38.7	38.7	39.5	0.8
Z	39,390	365	5,834	5.6	40.7	40.7	41.5	0.8
AA	39,707	550	9,075	3.6	41.1	41.1	42.0	0.9

[1] FEET ABOVE ROUTE 2A

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM ATLANTIC OCEAN

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

SHETUCKET RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	40,394	688	14,890	2.2	58.8	58.8	58.8	0.0
AC	42,083	745	12,043	2.7	59.0	59.0	59.0	0.0
AD	45,304	644	7,837	4.1	60.0	60.0	60.2	0.2
AE	45,885	319	5,494	5.9	60.6	60.6	60.7	0.1
AF	47,363	243	4,493	7.2	62.0	62.0	62.2	0.2
AG	48,683	262	4,167	7.8	63.7	63.7	64.3	0.6
AH	49,422	396	6,069	4.9	64.6	64.6	65.6	1.0
AI	49,792	478	8,585	3.5	65.2	65.2	66.1	0.9
AJ	51,376	900	11,586	2.6	74.6	74.6	74.6	0.0
AK	52,643	360	5,718	5.2	75.3	75.3	75.5	0.2
AL	53,699	745	9,368	3.2	76.4	76.4	77.4	1.0
AM	54,280	1,035	12,248	2.4	77.0	77.0	78.0	1.0
AN	55,442	740	8,772	3.4	78.4	78.4	79.4	1.0
AO	56,022	735	7,668	3.9	79.2	79.2	80.1	0.9
AP	56,392	945	9,866	4.0	79.8	79.8	80.7	0.9
AQ	58,504	434	5,686	5.2	80.4	80.4	81.3	0.9
AR	61,883	210	3,281	9.1	82.3	82.3	83.1	0.8
AS	63,045	240	3,751	7.9	84.2	84.2	85.0	0.8

[1] FEET ABOVE ROUTE 2A

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

SHETUCKET RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	10,800	54	318	4.1	111.6	111.6	112.5	0.9
B	11,160	300	1,336	1.0	111.9	111.9	112.8	0.9
C	11,700	38	197	6.6	111.9	111.9	112.8	0.9
D	11,810	80	578	2.2	115.8	115.8	116.8	1.0
E	12,160	154	1,242	1.0	115.9	115.9	116.9	1.0
F	12,520	277	1,892	0.7	115.9	115.9	116.9	1.0

[1] FEET ABOVE CONFLUENCE WITH HEWITT BROOK

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

SHEWVILLE BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	995	647	3,683	0.5	29.3	29.3	30.3	1.0
B	1,935	112	268	7.5	31.1	31.1	31.4	0.3
C	3,395	139	406	5.0	40.7	40.7	41.3	0.6
D	4,525	186	678	3.0	47.2	47.2	47.7	0.5
E	5,530	67	401	5.0	51.3	51.3	51.6	0.3
F	6,268	300	1,599	1.3	54.0	54.0	54.2	0.2
G	7,728	125	258	7.8	57.6	57.6	57.6	0.0
H	8,613	410	966	2.1	63.5	63.5	63.6	0.1
I	9,485	95	261	7.7	65.5	65.5	65.5	0.0
J	11,605	445	822	2.5	79.2	79.2	79.4	0.2
K	12,067	356	1,919	1.0	84.5	84.5	84.6	0.1
L	13,627	439	2,645	0.7	84.9	84.9	85.1	0.2
M	15,367	422	1,236	1.5	85.4	85.4	86.0	0.6
N	16,449	408	2,140	0.9	86.2	86.2	87.1	0.9
O	19,919	361	1,792	1.0	86.5	86.5	87.4	0.9
P	20,580	435	873	2.1	86.9	86.9	87.8	0.9
Q	21,635	85	207	8.9	93.0	93.0	94.0	1.0
R	22,725	85	449	4.1	103.3	103.3	104.3	1.0
S	23,817	250	1,427	1.3	114.3	114.3	114.3	0.0
T	24,717	45	168	11.0	121.8	121.8	121.9	0.1
U	24,893	55	508	3.6	130.0	130.0	130.6	0.6
V	25,720	251	1,103	1.1	134.9	134.9	135.8	0.9
W	30,390	43	249	4.7	138.2	138.2	138.7	0.5

[1] FEET ABOVE CONFLUENCE WITH PAWCATUCK RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

SHUNOCK RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,958	20	155	1.9	125.7	125.7	126.1	0.4
B	6,500	30	25	6.9	134.3	134.3	134.6	0.3
C	6,684	10	20	9.0	155.7	155.7	156.2	0.5
D	7,038	290	2,060	0.1	166.9	166.9	167.1	0.2

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

SPAULDING POND BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	*	*	*	*	9.8 [2]	*	*	*
B	*	*	*	*	9.8 [2]	*	*	*
C	*	*	*	*	9.8 [2]	*	*	*
D-K	*	*	*	*	*	*	*	*

* DATA NOT AVAILABLE. CROSS SECTIONS ARE SHOWN ON FIRM FOR REFERENCE

[1] FEET ABOVE CONFLUENCE WITH STONINGTON HARBOR

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

STONY BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,075	400	1,525	1.4	118.6	118.6	119.4	0.8
B	2,595	58	220	9.9	119.0	119.0	119.4	0.4
C	2,700	60	465	4.7	123.6	123.6	123.9	0.3
D	2,875	80	775	2 8	125.1	125.1	125.4	0.3
E	3,485	100	624	3.5	125.2	125.2	125.6	0.4
F	4,272	100	356	6.1	125.5	125.5	126.5	1.0
G	4,388	60	250	8.7	126.2	126.2	126.8	0.6
H	4,480	150	600	3 6	127.5	127.5	128.5	1.0
I	5,008	250	851	2.6	128.6	128.6	129.3	0.7
J	5,658	100	372	5.9	130.3	130.3	130.3	0.0
K	6,417	200	730	3.0	132.6	132.6	133.1	0.5
L	7,465	300	1,231	1.8	133.5	133.5	134.4	0.9
M	8,120	100	273	8.0	135.0	135.0	135.0	0.0
N	8,570	100	445	4.9	137.1	137.1	137.6	0.5
O	8,730	200	1,178	1.8	139.2	139.2	139.6	0.4
P	9,430	150	350	6.2	139.4	139.4	140.0	0.6
Q	10,358	150	479	4.5	145.6	145.6	146.5	0.9
R	11,415	100	411	5.3	149.9	149.9	150.3	0.4
S	12,415	50	271	8.0	153.2	153.2	154.2	1.0
T	13,317	140	685	3.2	156.1	156.1	157.0	0.9
U	14,190	50	200	10.9	158.7	158.7	158.7	0.0
V	14,990	50	223	9.8	166.4	166.4	167.1	0.7
W	15,588	49	229	9.5	171.8	171.8	172.5	0.7
X	16,307	50	216	10.1	177.7	177.7	178.1	0.4
Y	17,342	49	193	11.3	205.2	205.2	205.2	0.0
Z	17,460	50	584	3.7	213.7	213.7	213.7	0.0

[1] FEET ABOVE CONFLUENCE WITH YANTIC RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

SUSQUETONSCUT BROOK (TOWN OF FRANKLIN)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	6,067	250	3,420	0.7	25.1	25.1	25.1	0.0
B	7,313	70	790	3.0	25.2	25.2	25.3	0.1
C	8,622	150	1,325	1.8	26.1	26.1	27.0	0.9
D	9,816	200	1,195	2.0	27.5	27.5	28.5	1.0
E	10,312	110	644	2.7	28.7	28.7	29.7	1.0
F	11,067	130	868	2.0	31.0	31.0	31.5	0.5
G	12,239	130	754	2.3	32.8	32.8	33.8	1.0
H	12,714	240	1,429	1.2	40.0	40.0	40.1	0.1
I	13,992	240	830	2.1	40.3	40.3	41.3	1.0
J	14,905	175	670	2.6	45.9	45.9	46.2	0.3
K	15,117	175	780	2.2	46.1	46.1	46.6	0.5
L	15,745	200	976	1.8	47.2	47.2	47.7	0.5
M	16,827	300	897	1.9	56.6	56.6	57.6	1.0
N	18,295	300	787	2.2	66.7	66.7	67.1	0.4

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRADING COVE BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	910	140	1,543	0.2	9.6 [2]	8.7 [4]	8.7	0.0
B	1,700	40	368	0.9	9.6 [2]	8.7 [4]	8.7	0.0
C	2,600	40	302	1.1	9.6 [2]	8.7 [4]	8.7	0.0
D	3,515	40	225	1.5	9.6 [2]	8.8 [4]	8.9	0.1
E	4,045	40	193	1.7	9.6 [2]	8.8 [4]	9.0	0.2
F	4,420	30	170	1.9	10.7 [3]	10.7	10.7	0.0
G	4,850	30	168	2.0	10.8 [3]	10.8	10.9	0.1
H	5,195	30	156	2.1	10.8 [3]	10.8	11.1	0.3
I	5,515	30	130	2.5	10.8 [3]	10.8	11.2	0.4

[1] FEET ABOVE CONFLUENCE WITH BIRCH PLAIN CREEK

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS; PLEASE REFER TO THE ASSOCIATED DFIRM PANEL FOR BASE FLOOD ELEVATIONS

[4] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	723	40	110	2.4	90.4	90.4	90.4	0.0
B	1,505	40	40	6.2	102.5	102.5	102.5	0.0
C	1,658	40	80	3.2	103.7	103.7	103.7	0.0
D	1,985	90	235	1.1	104.1	104.1	104.4	0.3
E	2,724	20	40	6.9	142.4	142.4	142.4	0.0
F	3,247	110	115	2.3	154.6	154.6	154.6	0.0
G	3,395	90	50	4.3	59.2	159.2	159.2	0.0

[1] FEET ABOVE CONFLUENCE WITH YANTIC RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY B

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	507	200	460	0.1	64.9	64.9	64.9	0.0

[1] MILES ABOVE CONFLUENCE WITH SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	259	20	40	7.7	43.7	43.7	43.9	0.2
B	1,003	90	60	4.4	83.1	83.1	83.1	0.0
C	2,117	70	300	1.1	90.8	90.8	90.9	0.1
D	2,629	70	215	0.8	93.0	93.0	93.1	0.1

[1] FEET ABOVE CONFLUENCE WITH SHETUCKET RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY D

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	348	670	2,240	0.1	13.7	10.1 [2]	10.1	0.0

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM ATLANTIC OCEAN

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY F

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	600	1,039	2.6	9.8 [2]	3.8 [3]	3.8	0.0
B	545	620	127	2.1	9.8 [2]	5.6 [3]	6.1	0.5
C	1,036	250	379	7.1	9.8 [2]	7.9 [3]	8.0	0.1
D	1,866	200	1,036	2.6	13.9	13.9	14.8	0.9
E	2,622	50	587	4.6	21.8	21.8	22.0	0.2
F	3,055	180	1,056	2.6	23.6	23.6	24.5	0.9

[1] FEET ABOVE CONFLUENCE WITH MYSTIC RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF WAVE EFFECTS

[3] ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM FISHERS ISLAND SOUND

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

WHITFORD BROOK (TOWN OF GROTON)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,490	56	111	8.0	78.6	78.6	79.2	0.6
B	3,050	35	173	5.1	83.4	83.4	84.3	0.9
C	3,568	152	964	0.9	91.7	91.7	92.7	1.0
D	3,778	53	109	8.1	93.3	93.3	93.5	0.2
E	3,893	110	140	6.3	97.2	97.2	97.5	0.3

[1] FEET ABOVE LANTERN HILL ROAD

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

WHITFORD BROOK (TOWN OF LEDYARD)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	750	163	1,012	0.9	57.0	57.0	58.0	1.0
B	1,200	118	635	1.4	57.0	57.0	58.0	1.0
C	1,700	207	940	1.0	57.2	57.2	58.2	1.0
D	2,000	23	101	8.9	57.2	57.2	58.2	1.0
E	2,200	181	846	1.1	57.6	57.6	58.6	1.0
F	2,344	111	506	1.8	59.0	59.0	59.1	0.1
G	2,779	241	1,179	0.8	59.2	59.2	60.2	1.0
H	4,529	431	1,207	0.7	59.6	59.6	60.6	1.0
I	5,329	56	126	7.2	60.1	60.1	60.6	0.5
J	6,001	163	526	1.7	62.7	62.7	63.7	1.0
K	6,291	210	1,017	0.9	62.8	62.8	63.8	1.0
L	6,591	57	239	3.8	62.8	62.8	63.8	1.0
M	6,888	361	1,659	0.5	63.9	63.9	64.9	1.0
N	7,258	43	191	4.7	64.0	64.0	64.9	0.9
O	7,773	397	1,750	0.5	65.5	65.5	66.5	1.0
P	8,433	35	96	9.3	65.5	65.5	66.5	1.0
Q	8,703	265	1,490	0.6	67.3	67.3	67.8	0.5
R	8,953	898	5,089	0.2	67.3	67.3	67.8	0.5
S	9,383	47	129	7.0	67.3	67.3	67.8	0.5
T	9,653	30	101	8.9	70.6	70.6	70.9	0.3
U	9,733	130	678	1.3	72.3	72.3	72.8	0.5
V	10,353	347	1,859	0.5	72.4	72.4	72.9	0.5
W	10,903	60	133	6.8	73.2	73.2	73.6	0.4
X	11,103	85	212	4.2	75.0	75.0	75.9	0.9
Y	11,503	55	212	4.2	76.8	76.8	77.6	0.8
Z	11,623	38	171	5.2	77.0	77.0	77.9	0.9

[1] FEET ABOVE CONFLUENCE WITH WHITFORD BROOK SWAMP

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT

(ALL JURISDICTIONS)

FLOODWAY DATA

WILLIAMS BROOK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,700	103	1,341	4.8	14.4	5.7 [2]	6.4	0.7
B	3,548	128	1,254	5.1	14.4	8.3 [2]	8.7	0.4
C	5,322	114	1,281	9.1	14.4	9.3 [2]	10.2	0.9
D	6,061	171	911	12.8	58.1	58.1	58.2	0.1
E	6,389	121	1,651	7.1	62.1	62.1	62.9	0.8
F	6,745	176	2,262	5.1	76.4	76.4	76.9	0.5
G	7,648	270	3,437	3.4	76.9	76.9	77.5	0.6
H	7,880	315	2,265	5.1	77.5	77.5	78.2	0.7
I	8,150	450	5,792	2.0	77.9	77.9	78.7	0.8
J	8,520	450	4,519	2.6	77.9	77.9	78.8	0.9
K	9,100	165	1,736	6.6	78.2	78.2	79.1	0.9
L	9,170	165	1,890	6.1	79.0	79.0	80.0	1.0
M	9,600	310	3,479	3.3	80.0	80.0	80.8	0.8
N	11,300	310	2,783	4.1	81.3	81.3	82.2	0.9
O	11,525	191	1,312	8.8	81.4	81.4	82.3	0.9
P	11,635	191	1,385	8.3	82.2	82.2	82.9	0.7
Q	12,050	200	1,785	6.5	83.8	83.8	84.3	0.5
R	13,363	151	1,696	6.8	85.7	85.7	86.6	0.9
S	13,450	139	2,093	5.5	86.6	86.6	87.6	1.0
T	13,580	300	3,178	3.6	87.1	87.1	88.0	0.9
U	15,250	290	3,160	3.6	89.1	89.1	89.9	0.8
V	15,650	158	2,320	5.0	89.3	89.3	90.2	0.9
W	16,195	250	2,720	4.2	90.8	90.8	91.6	0.8
X	16,870	185	2,001	5.8	91.5	91.5	92.3	0.8
Y	17,076	155	1,254	9.2	91.5	91.5	92.3	0.8
Z	17,188	155	1,348	8.6	92.5	92.5	93.1	0.6
AA	17,735	500	4,707	2.4	94.5	94.5	94.9	0.4

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM ATLANTIC OCEAN

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

YANTIC RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	18,450	450	3,913	2.9	94.8	94.8	95.3	0.5
AC	18,630	575	4,596	2.5	96.0	96.0	97.0	1.0
AD	19,168	510	4,516	2.6	96.3	96.3	97.3	1.0
AE	19,965	206	1,958	5.9	98.4	98.4	98.9	0.5
AF	20,130	300	2,465	4.7	98.7	98.7	99.1	0.4
AG	21,670	550	3,360	3.4	101.8	101.8	102.5	0.7
AH	22,125	129	1,191	8.1	102.5	102.5	103.0	0.5
AI	22,363	180	1,777	5.4	104.0	104.0	104.8	0.8
AJ	23,160	400	3,875	2.5	105.0	105.0	105.8	0.8
AK	23,950	350	2,338	4.1	105.3	105.3	106.2	0.9
AL	25,030	350	3,406	3.4	106.6	106.6	107.4	0.8
AM	25,400	200	2,456	4.7	107.2	107.2	108.0	0.8
AN	25,500	200	2,034	5.7	107.3	107.3	108.2	0.9
AO	26,714	240	2,172	5.1	109.3	109.3	109.9	0.6
AP	26,950	145	1,793	6.1	111.8	111.8	112.7	0.9
AQ	27,390	200	2,351	4.7	113.3	113.3	114.2	0.9
AR	29,275	150	1,894	5.8	116.0	116.0	116.0	0.0
AS	29,575	170	2,222	5.0	117.5	117.5	117.5	0.0
AT	29,738	250	3,508	3.1	118.5	118.5	118.5	0.0
AU	31,250	250	2,358	4.7	118.9	118.9	119.7	0.8
AV	32,301	900	9,027	1.0	119.4	119.4	120.4	1.0
AW	33,501	640	3,859	2.4	119.7	119.7	120.7	1.0
AX	34,594	800	3,141	3.0	121.6	121.6	122.5	0.9
AY	36,016	126	805	11.6	122.9	122.9	123.6	0.7
AZ	37,004	145	1,054	8.8	127.0	127.0	127.3	0.3
BA	37,531	205	1,325	7.0	128.1	128.1	129.0	0.9
BB	38,539	76	638	14.6	131.1	131.1	131.1	0.0

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

YANTIC RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BC	39,361	97	723	12.9	137.0	137.0	137.0	0.0
BD	40,186	150	1,062	7.2	142.0	142.0	142.6	0.6
BE	40,388	*	1,251	6.1	143.8	143.8	144.1	0.3
BF	40,496	*	2,040	3.7	154.5	154.5	154.5	0.0
BG	41,388	406	4,525	1.7	154.8	154.8	154.8	0.0
BH	42,624	391	4,207	1.8	154.8	154.8	154.8	0.0
BI	43,296	441	4,579	1.7	154.9	154.9	154.9	0.0
BJ	43,456	326	4,681	1.6	159.0	159.0	159.0	0.0
BK	44,028	81	928	8.2	159.0	159.0	159.0	0.0
BL	44,606	91	912	8.3	159.1	159.1	159.3	0.2
BM	45,251	160	1,505	5.1	160.2	160.2	160.6	0.4
BN	45,704	448	3,764	2.0	160.4	160.4	161.4	1.0
BO	46,836	250	2,096	3.6	161.0	161.0	161.9	0.9
BP	47,656	212	1,639	4.6	161.8	161.8	162.8	1.0
BQ	47,876	205	1,735	4.4	164.1	164.1	164.5	0.4
BR	48,596	205	1,663	4.6	165.0	165.0	165.9	0.9
BS	50,026	200	1,831	4.2	168.2	168.2	169.0	0.8
BT	51,836	350	2,699	2.8	172.1	172.1	172.9	0.8
BU	53,876	500	1,552	4.0	174.4	174.4	175.3	0.9
BV	54,426	205	850	7.3	179.2	179.2	179.7	0.5
BW	54,881	214	1,139	5.4	183.5	183.5	184.0	0.5
BX	54,911	235	2,468	2.5	189.1	189.1	189.8	0.7
BY	55,571	200	1,017	6.1	189.5	189.5	190.4	0.9
BZ	55,946	120	654	9.5	195.3	195.3	195.3	0.0
CA	56,586	120	759	7.9	200.8	200.8	201.1	0.3
CB	57,146	64	476	12.6	206.1	206.1	206.5	0.4
CC	57,226	57	544	11.1	207.7	207.7	207.9	0.2

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

* FLOODWAY COINCIDENT WITH CHANNEL BANKS

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

YANTIC RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CD	57,401	51	846	7.1	214.2	214.2	214.7	0.5
CE	57,531	75	728	8.3	214.6	214.6	215.6	1.0
CF	57,896	158	679	8.9	219.1	219.1	219.1	0.0
CG	58,006	395	5,897	1.0	235.1	235.1	235.1	0.0

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

YANTIC RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,700	90	992	5.3	14.4	8.1 [2]	8.7	0.6
B	3,548	248	2,741	1.9	14.4	9.3 [2]	9.8	0.5

[1] FEET ABOVE CONFLUENCE WITH THAMES RIVER

[2] ELEVATIONS COMPUTED WITHOUT CONSIDERING BACKWATER EFFECTS FROM ATLANTIC OCEAN

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

YANTIC RIVER EAST CHANNEL

5.0 INSURANCE APPLICATIONS

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. The zones are as follows:

Zone A

Zone A is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or base flood depths are shown within this zone.

Zone AE

Zone AE is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by detailed methods. In most instances, whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone AH

Zone AH is the flood insurance risk zone that corresponds to the areas of 1-percent-annual-chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone VE

Zone VE is the flood insurance risk zone that corresponds to the 1-percent-annual-chance coastal floodplains that have additional hazards associated with storm waves. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X

Zone X is the flood insurance risk zone that corresponds to areas outside the 0.2-percent-annual-chance floodplain, areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by levees. No BFEs or depths are shown within this zone.

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on the FIRM were transferred from the official CBRS source maps and depicted on the FIRM for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area is located within CBRS are available for download at http://www.fws.gov. For an

official determination of whether or not an area is located within the CBRS, or for any questions regarding the CBRS, please contact with the FWS field office at 603-223-2541.

6.0 FLOOD INSURANCE RATE MAP

The FIRM is designed for flood insurance and floodplain management applications.

For flood insurance applications, the map designates flood insurance rate zones as described in Section 5.0 and, in the 1-percent-annual-chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

For floodplain management applications, the map shows by tints, screens, and symbols, the 1- and 0.2-percent-annual-chance floodplains, floodways, and the locations of selected cross sections used in the hydraulic analyses and floodway computations.

The countywide FIRM presents flooding information for the entire geographic area of New London County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the County identified as flood-prone. This countywide FIRM also includes flood-hazard information that was presented separately on Flood Boundary and Floodway Maps (FBFMs), where applicable. Historical data relating to the maps prepared for each community are presented in Table 12, "Community Map History."

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE(S)	FLOOD INSURANCE RATE MAP EFFECTIVE DATE	FLOOD INSURANCE RATE MAP REVISION DATE(S)
Bozrah, Town of	May 31, 1974	October 15, 1976	September 30, 1981	November 2, 1995
Colchester, Town of	August 2, 1974	January 30, 1976	June 15, 1982	July 15, 1992 June 4, 1996
East Lyme, Town of	September 13, 1974	December 24, 1976	June 15, 1981	June 15, 1984 June 16, 1992 December 5, 1995 June 30, 1999
Franklin, Town of	November 1, 1974	November 26, 1976	December 1, 1981	None
Griswold, Town of	February 28, 1975	None	January 3, 1985	None
Groton, City of	February 21, 1975	None	May 15, 1980	May 15, 1984 June 16, 1992 August 2, 1995
Groton Long Point Association	April 11, 1975	None	March 18, 1980	November 17, 1982 August 3, 1992 August 2, 1995

TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT (ALL JURISDICTIONS)

COMMUNITY MAP HISTORY

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE(S)	FLOOD INSURANCE RATE MAP EFFECTIVE DATE	FLOOD INSURANCE RATE MAP REVISION DATE(S)
Groton, Town of	February 21, 1975	None	April 15, 1977	August 19, 1977 August 15, 1984 June 16, 1992 August 2, 1995
Jewett City, Borough of	December 10, 1976	None	April 3, 1985	None
Lebanon, Town of	January 24, 1975	None	June 3, 1988	June 3, 1991
Ledyard, Town of	February 21, 1975	None	April 1, 1981	None
Lisbon, Town of	January 31, 1975	None	February 15, 1985	None
Lyme, Town of	June 14, 1974	None	January 3, 1979	None
Montville, Town of	October 18, 1974	September 3, 1976	July 2, 1980	December 5, 1995
New London, City of	June 28, 1974	None	May 2, 1977	October 1, 1983 August 19, 1985 August 2, 1995
Noank Fire District	February 21, 1975	None	September 17, 1980	January 5, 1984

TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT (ALL JURISDICTIONS)

COMMUNITY MAP HISTORY

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE(S)	FLOOD INSURANCE RATE MAP EFFECTIVE DATE	FLOOD INSURANCE RATE MAP REVISION DATE(S)
North Stonington, Town of	September 13, 1974	February 11, 1977	April 3, 1985	None
Norwich, City of	May 31, 1974	January 21, 1977	June 15, 1978	September 10, 1982 November 1, 1985 April 15, 1992 March 15, 1994
Old Lyme, Town of	February 4, 1977	None	July 16, 1980	March 1, 1984 June 16, 1992
Preston, Town of	August 16, 1974	January 28, 1977	March 4, 1985	None
Salem, Town of	February 21, 1975	None	February 3, 1982	None
Spraque, Town of	May 10, 1974	August 27, 1976	January 3, 1985	None
Stonington, Borough of	November 29, 1977	None	November 1, 1979	January 5, 1984 June 16, 1992 August 2, 1995
Stonington, Town of	October 18, 1974	April 9, 1977	September 30, 1980	January 18, 1984 June 16, 1992 September 6, 1995
Voluntown, Town of	May 31, 1974	February 25, 1977	June 3, 1988	None

TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT (ALL JURISDICTIONS)

COMMUNITY MAP HISTORY

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE(S)	FLOOD INSURANCE RATE MAP EFFECTIVE DATE	FLOOD INSURANCE RATE MAP REVISION DATE(S)
Waterford, Town of	July 26, 1974	November 19, 1976	February 4, 1981	October 1, 1983 September 5, 1990 April 2, 1992 September 6, 1995

TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW LONDON COUNTY, CT (ALL JURISDICTIONS)

COMMUNITY MAP HISTORY

7.0 OTHER STUDIES

Information pertaining to revised and unrevised flood hazards for each jurisdiction within New London County has been compiled in this FIS. Therefore, this FIS supersedes all previously printed FIS reports, FIRMs, and/or FHBMs for all of the incorporated jurisdictions within New London County.

This FIS report either supersedes or is compatible with all previous studies published on flooding sources studied in this report and should be considered authoritative for the purposes of the NFIP.

For coastal flooding in the Borough of Stonington, Groton Long Point Association, Noank Fire District, Cities of Groton and New London and Towns of East Lyme, Groton, Old Lyme, Stonington and Waterford, this FIS supersedes the previously printed FIS reports.

8.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting the Federal Insurance and Mitigation Division, FEMA Region I, 99 High Street, 6th Floor, Boston, MA 02110.

9.0 BIBLIOGRAPHY AND REFERENCES

1. U.S. Census Bureau (2010): State and County Quick Facts Website, http://quickfacts.census.gov/qfd/states/09/09007.html. Last revised: Friday 03-Jun-2011 15:25:26 EDT.

2. United States Census Bureau, American FactFinder, Retrieved on January 31, 2008.

3. State of Connecticut, Geological and Natural History Survey, Bulletin No. 74, The Geology of Eastern Connecticut, Hartford, Connecticut, 1949.

4. Allan Carpenter and Carl Provorse, The World Almanac of the U.S.A., 1998.

5. U.S. Department of Commerce, New England Division, Long Island Sound, Interim Memo No. COE 2, Tidal Hydrology, Waltham, Massachusetts, June 1973, Revised June 1974.

6. U.S. Army Corps of Engineers, New England Division, Hurricane Survey, Connecticut Coastal and Tidal Areas, Waltham, Massachusetts, May 1964.

7. State Geological and Natural History Survey of Connecticut, The Climate of Connecticut, by Joseph J. Brumback, Bulletin No. 99, Table 9, pg. 21, Figure 12, pg. 120, Hartford, Connecticut, 1965.

8. Provided by Thomas Wagner, Town Planner, "Flood Damage Assessment: Hurricane Gloria," September 1985.

9. Dewey and Kropper Engineers, Flood Protection Improvements, Spaulding Pond Brook. Norwich, Connecticut, Connecticut, July 1963.

10. Southeastern Connecticut Regional Planning Agency, Storm Drainage Study, by Cahn Engineers, Norwich, Connecticut, December 1968.

11. U. S. Army Corps of Engineers, New England Division, Water Resources Development in Rhode Island, Waltham, Massachusetts, January 1979.

12. U.S. Department of the Interior, Geological Survey, Annual Peak Flow Frequency Analyses of the Pawcatuck River Gage at Westerly, Rhode Island, Washington, D. C., December 1980.

13. State of Connecticut. (December 2007). Department of Environmental Protection, Natural Hazards Mitigation Plan For 2007-2010.

14. David Longshore. (2008). Encyclopedia of Hurricanes, Typhoons, and Cyclones, Facts On File, Inc. An imprint of Infobase Publishing, New York.

15. Norwich Bulletin. (October 1, 2010). Heavy rains, high winds hit state, retrieved from http://www.norwichbulletin.com/news/x161456968/Heavy-rains-high-winds-hit-state#axzz1Mp1xD7xe.

16. Norwich Bulletin. (December 12, 2010). Storm cuts power, knocks down trees across region, retrieved from http://www.norwichbulletin.com/communities/x1921998648/Storm-cuts-power-knocks-down-trees-across-region#axzz1Mp1xD7xe

17. The Daily Fairfield. (January, 12, 2011). How much snow Hit Fairfield?, by Greg Canuel, retrieved from http://www.thedailyfairfield.com/neighbors/how-much-snow-hit-fairfield.

18. Norwich Bulletin. (January 27, 2011). Connecticut Seeks Federal Money for Snow, by Emily Groves, retrieved from http://www.norwichbulletin.com/carousel/x925303527/Connecticut-seeks-federal-money-for-snow#axzz1Mp1xD7xe.

19. The Daily Norwalk. (January 19, 2011). Water Damage Cleared, Ponus To Reopen, by Moina Noor, retrieved from http://www.thedailynorwalk.com/schools/water-damage-cleared-ponus-reopen.

20. The Daily Fairfield. (January 18, 2011). Storm Floods Fairfield's Streets, by Greg Canuel, retrieved from http://www.thedailyfairfield.com/news/storm-floods-fairfields-streets.

21. The Middletown Press. (February 04, 2011). 14 buildings in Middletown deemed unsafe, evacuated (video), retrieved from http://www.middletownpress.com/articles/2011/02/04/news/doc4d4b5283a5d29020146314.txt.

22. The Daily Darien. (February 2, 2011). Ice Storm Striking Darien, by Casey Donahue, retrieved from http://www.thedailydarien.com/news/ice-storm-striking-darien.

23. The Daily Fairfield. (February 3, 2011). Federal Support Offered in Areas Hit by Storm, by Felicia Hunter, retrieved from http://www.thedailyfairfield.com/news/federal-support-offered-areas-hit-storm.

24. The Daily Fairfield. (February 1, 2011). Weather Closes Fairfield Schools Tuesday, by Greg Canuel, retrieved from http://www.thedailyfairfield.com/schools/weather-closes-fairfield-schools-Tuesday.

25. Connecticut Post. (February 2, 2011). Massive Ice Storm Downing Power Lines Throughout Region, retrieved from http://www.ctpost.com/local/article/Massive-ice-storm-downing-power-lines-throughout-989150.php.

26. Dewey and Kropper Engineers, Report on Flood Potential. Spaulding Pond Brook, Norwich. Connecticut, Connecticut, July 1963.

27. Federal Emergency Management Agency, Flood Insurance Study, Town of Lebanon. New London County. Connecticut, Washington, D.C., June 3, 1991.

28. U.S. Army Corps of Engineers, New England District, Water Resources Projects website, http://www.nae.usace.army.mil/water/topic.asp?mytopic=newlondonfdr, Retrieved November 10, 2011.

29. Zoning Regulations, Town of Waterford, Connecticut, Section 25.3: Construction in Flood Plain Area, October 21, 1985

30. American Society of Civil Engineers Watershed Management Symposium, Floodflow Formulas For Urbanized and Nonurbanized Areas of Connecticut, by L. A. Weiss, Hartford, Connecticut, August 1975.

31. U.S. Department of the Interior, Geological Survey, Water Resources Inventory of Connecticut. Part 3, Lower Thames and Southeastern Coastal River Basins, Washington, D.C., 1968.

32. U.S. Department of Agriculture, Soil Conservation Service, Engineering Division, Technical Release 20, Computer Program for Project Formulation-Hydrology, May 1965.

33. State of Connecticut, Connecticut Department of Environmental Protection Natural Resource Center, Flood Flow Formulas for Connecticut, edited by P. Biscuti, pg. 20, Hartford, Connecticut, October 1, 1977.

34. Water Resources Council, "Guidelines for Determining Flood Flow Frequency," Bulletin 17, Washington, D.C., March 1976.

35. U.S. Department of the Interior, Geological Survey, Flood Flow Formulas for Urbanized and Nonurbanized Areas of Connecticut, by L.A. Weiss, Washington, D.C., 1975, Revised 1978.

36. U.S. Department of the Interior, Geological Survey, Connecticut Water Resource Bulletin No. 36, Evaluation and Design of a Streamflow - Data Network for Connecticut, by L.A. Weiss, Washington, D.C., 1983.

37. U. S. Department of Agriculture, Soil Conservation Service, Technical Release No. 20, Computer Program, Project Formulation, Hydrology, Washington, D.C., 1965.

38. U. S. Department of the Interior, Geological Survey, Connecticut Water Resource Bulletin No. 36, Evaluation & Design of a Stream Flow Data Network for Connecticut, by L. A. Weiss, Hartford, Connecticut, 1983.

39. U. S. Department of Commerce, Weather Bureau, Technical Paper No. 29, Rainfall Intensity, Frequency Regime, Part 4, Northeastern United States, Washington, D. C., 1978.

40. American Society of Civil Engineers, Watershed Management Symposium, Flood Flow Formulas For Urbanized and Nonurbanized Areas of Connecticut, by L. A. Weiss, New York, August 1975.

41. American Society of Civil Engineers, Watershed and Management Symposium, Irrigation and Drainage Division, "Flood Flow Formulas for Urbanized and Nonurbanized Areas of Connecticut," Logan, Utah, 1975.

42. State of Connecticut, Connecticut Department of Environmental Protection, Evaluation and Design of a Streamflow Network for Connecticut, by L. A. Weiss, U.S. Geological Survey, Connecticut Water Resources, Bulletin Number 36, 1983.

43. L. Weiss, U.S. Department of the Interior, Geological Survey, Water Resources Division, Personal Communication, February 2, 1983.

44. Federal Emergency Management Agency, Flood Insurance Study, City of Norwich. New London County. Connecticut, Washington, D.C., March 15, 1994.

45. U.S. Department of the Interior, Geological Survey, Water-Data Report CT-76-1, Water Resources Data for Connecticut, Water Year 1976, Washington, D.C., 1977.

46. U. S. Department of the Interior, Geological Survey, Water Resources Data for Connecticut, Washington, D. C., 1975.

47. U. S. Army Corps of Engineers, New England Division, Waltham, Massachusetts, Personal Communication, October 18, 1978.

48. U.S. Department of the Interior, Geological Survey, Water Resources Data for Connecticut, Connecticut, 1975.

49. Letter from New England Division, Corps of Engineers, Waltham, Massachusetts, Personal Communication, October 18, 1978.

50. Dewberry and Davis, prepared for the Federal Emergency Management Agency, Tidal Flood Profiles for the Thames River, Fairfax, Virginia, February 1983 (Unpublished).

51. U.S. Department of Agriculture, Soil Conservation Service, National Engineering Handbook, Section 4, Hydrology, Washington, D. C. , August 1972.

52. David D. Knox, Report on Clarks Falls Pond Dam, Clarks Falls, North Stonington, Connecticut, Connecticut, 1983.

53. Federal Emergency Management Agency, Flood Insurance Study, Town of Westerly, Washington County, Rhode Island.

54. Federal Emergency Management Agency, Federal Insurance Administration, Flood Insurance Study, Town of Ledyard, New London County, Connecticut, Washington, D. C., October 1, 1980.

55. Federal Emergency Management Agency, Federal Insurance Administration, Flood Insurance Studv. City of Norwich. New London County, Connecticut, Washington, D.C., June 15, 1978, Revised April 15, 1992.

56. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Insurance Study, City of Norwich, New London County, Connecticut, Washington, D. C., June 15, 1978.

57. U.S. Army Corps of Engineers, Hydrologic Engineering Center, HEC-2 Water Surface Profiles. Generalized Computer Program, Davis, California, May 1991.

58. U.S. Department of Agriculture, Soil Conservation Service, Technical Release No. 61, WSP-2 Computer Program, Washington D.C., May 1976.

59. U. S. Department of Agriculture, Soil Conservation Service, Engineering Division, Technical Release No. 61, WSP-2 Computer Program, Washington, D. C., May 1976.

60. U. S. Department of the Interior, Geological Survey, Unpublished Data Relating Depth of 100-Year to Drainage Area at Approximately 100 USGS Gaging Stations on File at USGS Office in Hartford, Connecticut, Washington, D. C.

61. U. S. Department of the Interior, Geological Survey, Techniques of Water-Resources Investigations, Measurement of Peak Discharge at Dams by Indirect Methods, Book 3, Chapter A5, Washington, D. C., 1967.

62. U. S. Department of the Interior, Geological Survey, Techniques of Water Resources Investigations, Measurement of Peak Discharge at Culverts by Indirect Methods, Book 3, Chapter A3, Washington, D. C., 1968.

63. U. S. Department of the Interior, Geological Survey, Techniques of Water-Resources Investigations, Measurement of Peak Discharge at Width Contractions by Indirect Methods, Book 3, Chapter A4, Washington, D. C., 1967.

64. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Jewett City, Connecticut, 1953, Photorevised 1970; Oneco, Connecticut, 1953, Photorevised 1970; Plainfield, Connecticut, 1953, Photorevised 1970; Voluntown, Connecticut, 1953, Photorevised 1970 and 1975; Columbia, Connecticut, 1950, Photorevised 1970; Willimantic, Connecticut, 1953, Photorevised 1970; Colchester, Connecticut, 1953, Photorevised 1970.

65. U. S. Army Corps of Engineers, Hydrologic Engineering Center, Computer Program 723-X6-L202A, -HEC-2 Water Surface Profile, Davis, California, November 1976.

66. U.S. Army Corps of Engineers, Hydrologic Engineering Center, HEC-2 Water Surface Profiles. Generalized Computer Program, Davis, California, November 1976.

67. Fuss and O'Neill, Inc., Report on Establishment of Channel Encroachment Lines and Flood plan delineation, Yantic River, Towns of Norwick, Franklin, Bozrah, Lebanon, Manchester, Connecticut, 1982.

68. U. S. Department of the Interior, Geological Survey, "Unpublished data relating depth of 100-year flood to drainage area at approximately 100 USGS gaging stations on file at USGS office in Hartford, Connecticut," (Unpublished).

69. U. S. Department of the Interior, Geological Survey Water Supply Paper 1580-B, Factors Influencing the Occurrence of Floods in a Humid Region of Diverse Terrain, by Manual A. Benson, Washington, D. C., 1962

70. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Synoptic Weather Charts, Asheville, North Carolina, National Climatic center, March 1931; February 1940; April 1940, November 1944; December 1950, November 1953, August 1954, March 1957; April 1958; December 1959; February 1960; March 1960; January 1961; March 1961; March 1962; January 1966. April 1967, December 1967; February 1968; November 1968; November 1969; December 1969; February 1972; March 1976; February 1978.

71. Federal Emergency Management Agency, Guidelines and Specifications for Flood Hazard Mapping Partners. Appendix D: Guidance for Coastal Flooding Analyses and Mapping, Washington, D.C., April 2003.

72. STARR, prepared for the Federal Emergency Management Agency, Regional Frequency Analyses using L Moments, November 3, 2010.

73. Federal Emergency Management Agency, Users Manual for Wave Height Analysis, Washington, D.C., Revised February 1981.

74. Terrapoint Point USA for Dewberry & Davis LLC., based on North American Vertical Datum of 1988, accurate to 2-ft contours, date of LIDAR data acquisition, December 2006.

75. National Oceanographic and Atmospheric Administration (NOAA) National Ocean Service (NOS) Hydrographic Data Base (NOSHDB) and Hydrographic Survey Meta Data Base (HSMDB) (NOAA), Bathymetry, May 27, 2010.

76. Federal Emergency Management Agency, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update (FEMA, 2007) to Appendix D, Guidance for Coastal Flooding Analyses and Mapping (FEMA, 2003).

77. USACE, Coastal Engineering Research Center report, Criteria for evaluating Coastal Flood Protection Structures, (TR CERC-89-15).

78. Federal Emergency Management Agency, Coastal Hazard Analysis Modeling Program (CHAMP) Version 2.0, 2007.

79. National Academy of Sciences, Methodology for Calculating Wave Action Effects Associated with Storm Surges, Washington, D.C., 1977.

80. U.S. Army Corps of Engineers, Galveston District, Guidelines for Identifying Coastal High Hazard Zones, Galveston, Texas, June 1975.

81. Federal Emergency Management Agency, Procedure Memorandum No. 50 – Policy and Procedures for Identifying and Mapping Areas Subject to Wave Heights Greater than 1.5 feet as an Informational Layer on Flood Insurance Rate Maps (FIRMS), Washington, DC, December 3, 2008.

82. U.S. Army Corps of Engineers, Shore Protection Manual, 1984.

83. Terrapoint Point USA for Dewberry & Davis LLC., based on North American Vertical Datum of 1988, accurate to 2-ft contours, date of LIDAR data acquisition, December 2006.

84. Connecticut Department of Environmental Protection, Ortho imagery 1:12,000, based on Connecticut State Plane zone (FIPSZONE0600), NAD83, GRS1980 spheroid, Aerial photography acquired 2000, 2004 and 2005.

85. Quinn and Associates, Topographic Maps compiled from aerial photographs, Scales: 1"=1,000' and 1"=200', Contour Interval 5 Feet: Bozrah, Connecticut, April 1979.

86. Topographic Data Consultants, Inc., Topographic Maps of the Yantic River, Scale 1:2,400, Contour Interval 2 Feet, 1980.

87. U.S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Fitchville, Pennsylvania, 1983.

88. Dewberry & Davis of Fairfax, Virginia, for the Federal Emergency Management Agency, Topographic Maps for the Town of East Lyme, New London County, Connecticut, Scale 1:2,400, Contour Interval 4 Feet, Developed November 1982 (Unpublished).

89. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Norwich, Connecticut, 1954, Photorevised 1970.

90. U. S. Department of the Interior, Geological Survey, Flood Boundary and Floodway Map, Scale 1:4,800, Contour Interval 4 Feet, Norwich, Connecticut, December 1989.

91. U. S. Army Corps of Engineers, New England Division, Topographic Maps, Scale 1:4,800, Contour Interval 5 Feet: Town of Waterford, New London County, Connecticut, 1985.

92. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Griswold, New London County, Connecticut, February 1975.

93. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Lebanon, New London County, Connecticut.

94. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of North Stonington, New London County, Connecticut, February 11, 1977.

95. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Preston, New London County, Connecticut, January 29, 1977.

96. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Voluntown, New London County, Connecticut.

97. U.S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Fitchville, Pennsylvania, 1953, Photorevised 1970.

98. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Fitchville, Connecticut, 1953, Photorevised 1970; Norwich, Connecticut, 1954; Willimantic., Connecticut, 1953, Photorevised 1970; Scotland, Connecticut, 1953.

99. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Lisbon, New London County, Connecticut, January 31, 1975.

100. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Colchester, Connecticut, 1953, Photorevised 1970; Fitchville, Connecticut, 1953, Photorevised 1970i Hamburg, Connecticut, 1961, Photorevised 1971; Montville, Connecticut, 1958, Photorevised 1970.

101. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Salem, New London County, Connecticut, February 1975.

102. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Norwich, Connecticut, 1954, Photorevised 1970.

103. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map, Town of Sprague, New London County, Connecticut, April 14, 1975.

104. U.S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map. Town of East Lyme. New London County. Connecticut, Washington, D.C., December 1976.

105. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map. Town of Montville. New London. Connecticut, October 18, 1974.

106. Federal Emergency Management Agency, Federal Insurance Administration, Flood Insurance Study. Town of Colchester. New London County. Connecticut, Washington, D.C., July 15, 1992.

107. U. S. Department of Housing and Urban Development, Federal Insurance Administration, Flood Hazard Boundary Map. Borough of Colchester. New London County. Connecticut, Washington, D.C., May 14, 1976.

108. Federal Emergency Management Agency, Flood Insurance Study, City of Norwich. New London County. Connecticut, Washington, D.C., April 15, 1992.

109. Federal Emergency Management Agency, Federal Insurance Administration, Flood Insurance Study, Town of Waterford, New London County, Connecticut, Washington, D. C., August 4, 1980.

110. Spectrum Mapping, LLC, Denver, CO, Digital Elevation Model of the Connecticut River Floodplain, based on North American Vertical Datum of 1988, date of LIDAR data acquisition, May and June 2004.

111. Dewberry & Davis of Fairfax, Virginia, prepared for the Federal Emergency Management Agency, Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: Town of Groton, New London County, Connecticut, Developed November 1982 (Unpublished).

112. Aero Graphics corporation of Bohemia, New York, Aerial photographs, Scale 1:12,000: Town of Groton, New London County, Connecticut, April 1980.

113. Town of Groton, Existing Storm Drainage Systems, Long Hill Watershed, Topographic Map, Scale 1"=200', Contour Interval 25 Feet, Groton, Connecticut, February 1981.

114. U. S. Department of the Interior, Geological Survey, 7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: New London, Connecticut, 1958, Photorevised 1970; Mystic, Connecticut, 1958, Photorevised 1970; Uncasville, Connecticut, 1958, Photorevised 1970; Old Mystic, Connecticut, 1958, Photorevised 1970.