



Sea Level Rise Scenarios Affecting Roads

Town of East Greenwich

Map Created: 9/23/2016

Map Legend

NOTES:
 The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.
 Includes Hillshade from USGS 2011 LiDAR

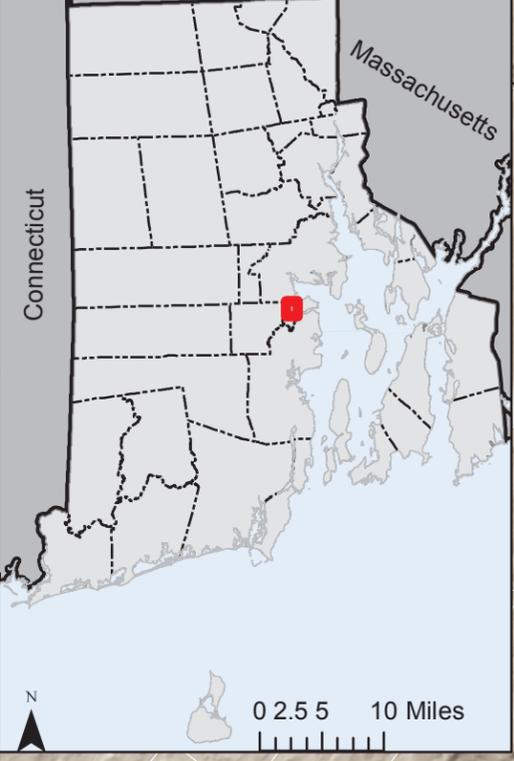
	Current Mean Higher High Water		City and Town Boundaries
	1Ft Sea Level Rise		Potentially Affected Roads
	3Ft Sea Level Rise		Roads
	5Ft Sea Level Rise		
	7Ft Sea Level Rise		

0 0.05 0.1 0.2 Miles



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Relative Road Vulnerability to Sea Level Rise													
East Greenwich			Linear Feet of Road Inundated At:										
Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
1	56	LONDON ST		308	344	73	725	2.35	Yes	Yes	Major Coll.	3.20	5.55
2	132	KING ST			4	243	247	1.50	Yes	Yes	Major Coll.	3.20	4.70
3	161	WATER ST			617	609	1,226	2.47	No	No	Minor Coll.	1.86	4.32
4	723	CROMPTON AVE		81	22	15	118	1.50	No	No	Local	0.60	2.10
5	724	QUEEN ST			41	39	81	1.50	No	No	Local	0.60	2.10
6	725	ROCKY HOLLOW RD		1	17	11	29	1.50	No	No	Local	0.60	2.10
		TOTAL LINEAR FEET		389	1,029	979	2,397						



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Sea Level Rise Scenarios Affecting Bridges

Map Created: 8/11/2016

Town of East Greenwich

Map Legend

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Includes Hillshade from USGS 2011 LiDAR

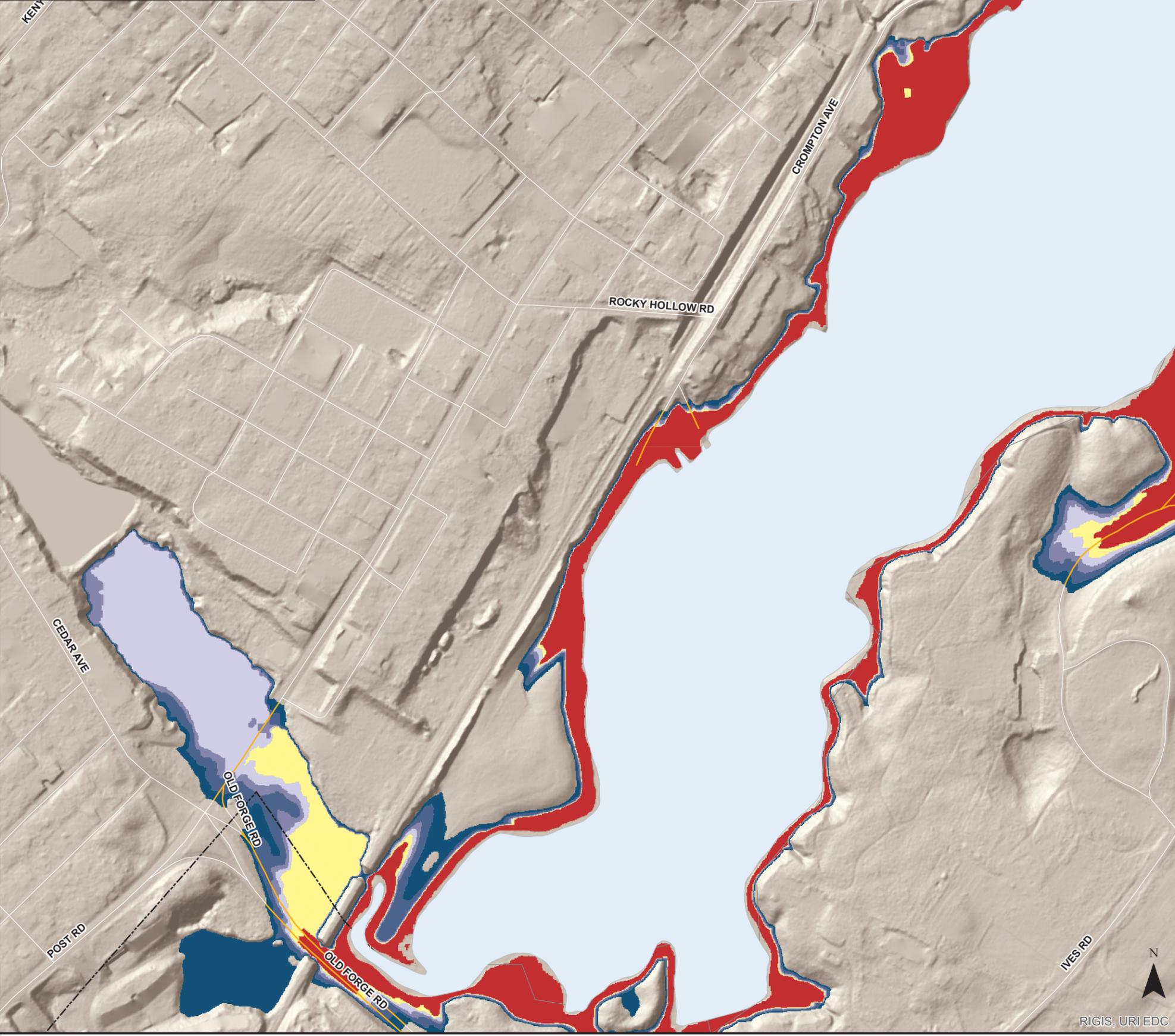
- Freeboard Potentially Affected by SLR
- Current Mean Higher High Water
- City and Town Boundaries
- 1Ft Sea Level Rise
- 3Ft Sea Level Rise
- 5Ft Sea Level Rise
- 7Ft Sea Level Rise
- Bridge Accessible
- Possible Bridge Access Problem
- Not Exposed to SLR
- Roads



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Bridges Possibly Affected by Sea Level Rise in the Town of East Greenwich

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Hazard Score	Intermodal Facility	Evacuation Route	AADT	System Score	Vulnerability Score
1	75	King Street RR	AMTRAK	KING STREET	-2	Water	Access	2.50	Yes	Yes	-1	2.00	4.50



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Roads

Town of East Greenwich

Map Created: 8/11/2016

Map Legend

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Includes Hillshade from USGS 2011 LiDAR

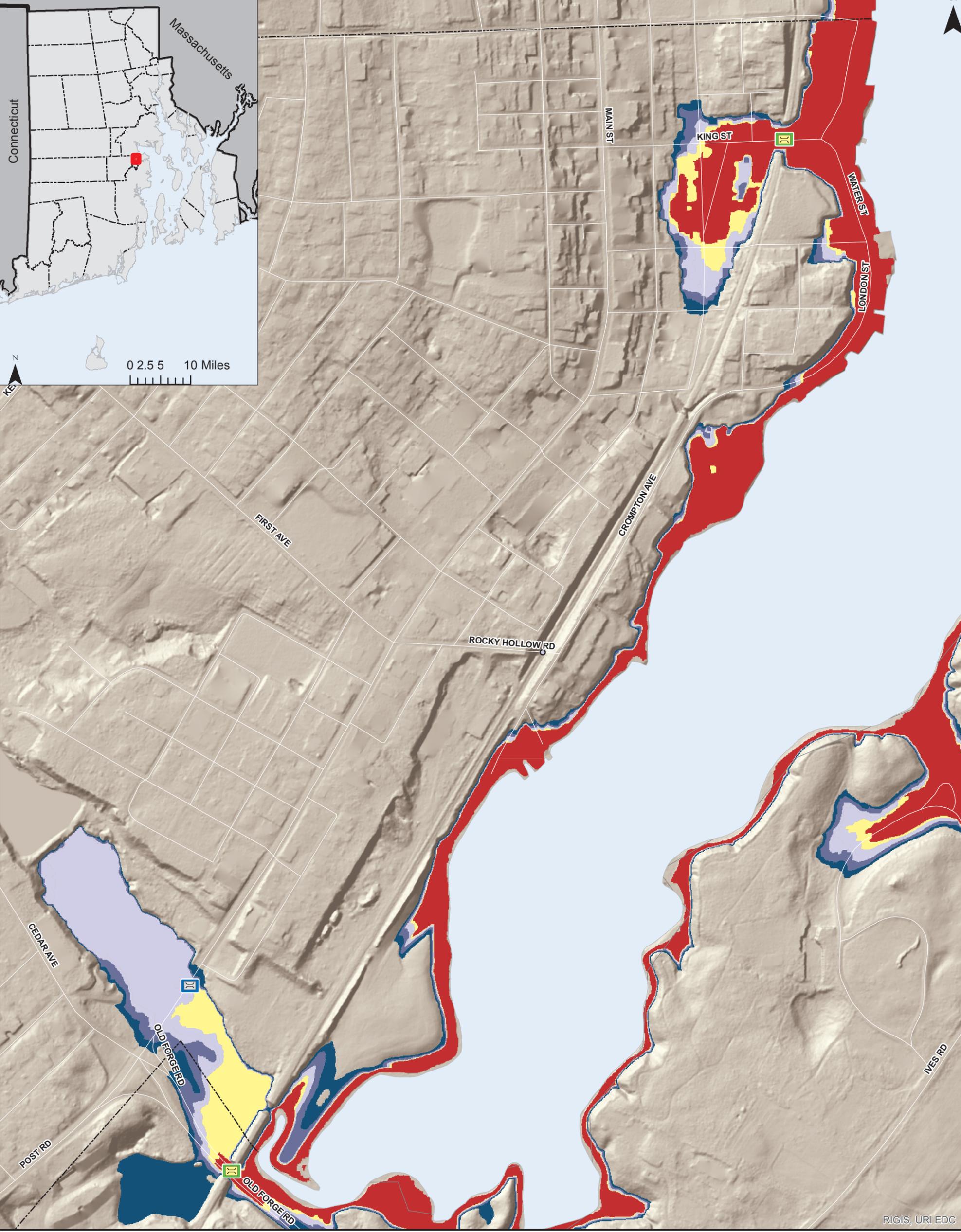
- Current Ponds & Mean Higher High Water
- 100-Year Storm Event
- 100-Year Plus 1 ft. of SLR
- 100-Year Plus 2 ft. of SLR
- 100-Year Plus 3 ft. of SLR
- 100-Year Plus 5 ft. of SLR
- 100-Year Plus 7 ft. of SLR
- City and Town Boundaries
- Potentially Affected Roads
- Roads



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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise

East Greenwich			Linear Feet Inundated During 100 Year Surge Event Plus:											
Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
1	34	LONDON ST	850	14	32	31	31	958	4.61	Yes	Yes	Major Coll.	3.20	7.81
2	56	KING ST	595	33	53	43	33	756	4.32	Yes	Yes	Major Coll.	3.02	7.35
3	66	MAIN ST			323	82	88	493	2.81	Yes	Yes	Principal Art.	4.40	7.21
4	92	WATER ST	1,237					1,237	5.00	No	No	Major Coll.	1.85	6.85
5	251	CROMPTON AVE	177	15	23	20	22	256	4.03	No	Yes	Local	1.60	5.63
6	486	EXCHANGE ST	491					491	5.00	No	No	Local	0.60	5.60
7	1,668	DUKE ST	437	190	279	102	99	1,107	3.71	No	No	Local	0.80	4.51
8	1,860	ROCKY HOLLOW RD	72	7	14	11	14	119	3.62	No	No	Local	0.60	4.22
9	1,890	CROP ST	89	13	20	13	16	152	3.56	No	No	Local	0.60	4.16
10	2,027	QUEEN ST	189	141	131	75	69	606	3.41	No	No	Local	0.60	4.01
11	2,566	OLD FORGE RD				38	58	96	1.50	No	No	Major Coll.	1.20	2.70
12	2,841	LONG ST					108	108	1.50	No	No	Local	0.60	2.10
Total Linear Feet			4,137	414	875	414	429	6,269						



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Bridges

Town of East Greenwich

Map Created: 8/11/2016

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 Includes Hillshade from USGS 2011 LiDAR

- | | | |
|--|----------------------------|--------------------------|
| Freeboard Potentially Affected by Surge | 100-Year Storm Event | City and Town Boundaries |
| Freeboard Unlikely to be Affected by Surge | 100-Year Plus 1 ft. of SLR | Roads |
| Not Exposed to Surge | 100-Year Plus 3 ft. of SLR | |
| Bridge Accessible | 100-Year Plus 5 ft. of SLR | |
| Possible Bridge Access Problem | 100-Year Plus 7 ft. of SLR | |

0 0.05 0.1 0.2 Miles

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Relative Bridge Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise in the Town of East Greenwich

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evac. Route	AADT	Sys. Score	Vuln. Score
1	21	Bleachery	US 1 POST RD	BLEACHERY BROOK	37	Water	Problem	4.10	Yes	Yes	12,500	3.80	7.90
2	126	King Street RR	AMTRAK	KING STREET	-163	Water	Access	2.50	Yes	Yes		2.00	4.50