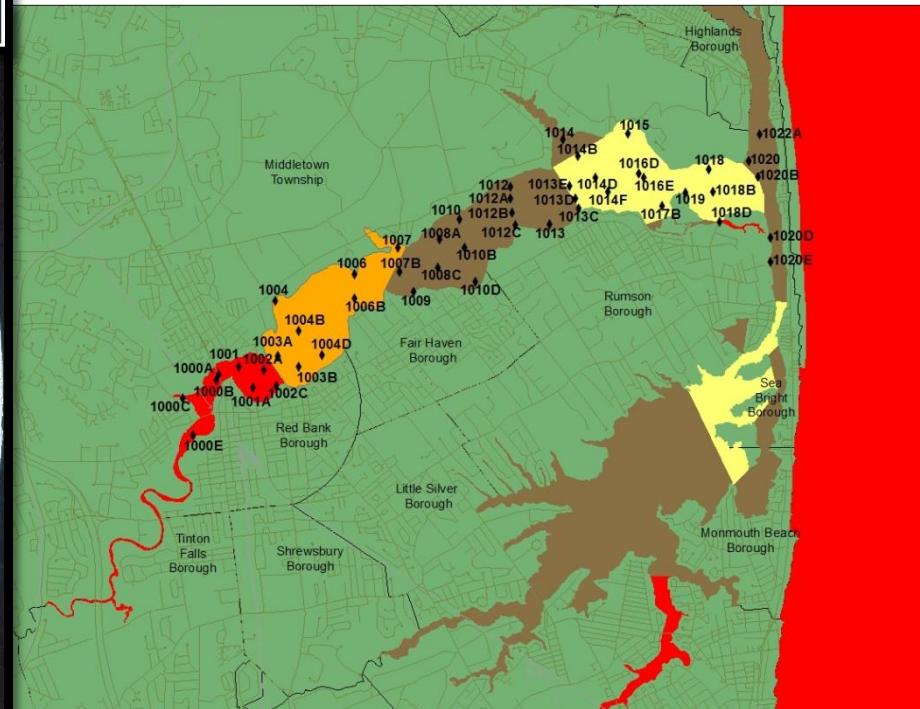
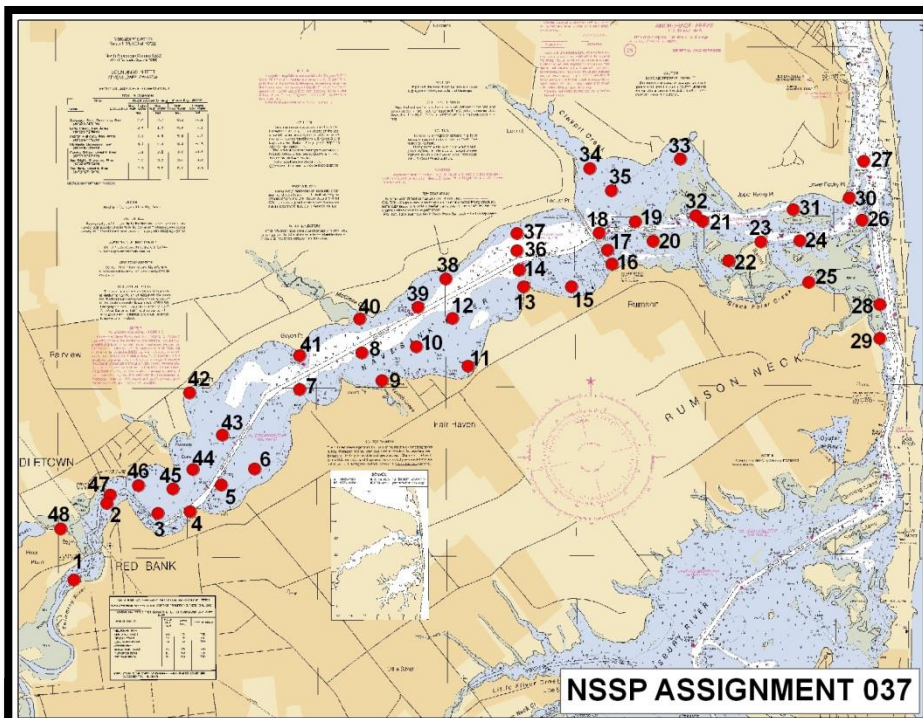


Navesink River – NE2

2015 Annual Report

June 1, 2012 – August 31, 2015



Summary of Data

- [Stations exceeding NSSP SRS Approved Criteria YR](#) –35
- [Annual Trend](#)
- [Stations exceeding NSSP SRS Special Restricted Criteria YR](#) – 17
- [Stations with a Seasonal Component](#) – 33
- Rainfall Impacts (at 0.3 inch of rain)
 - [24hr](#) – 40
 - 48hr – 34
 - 72hr – 18

Year Round SRS Special Restricted Evaluation

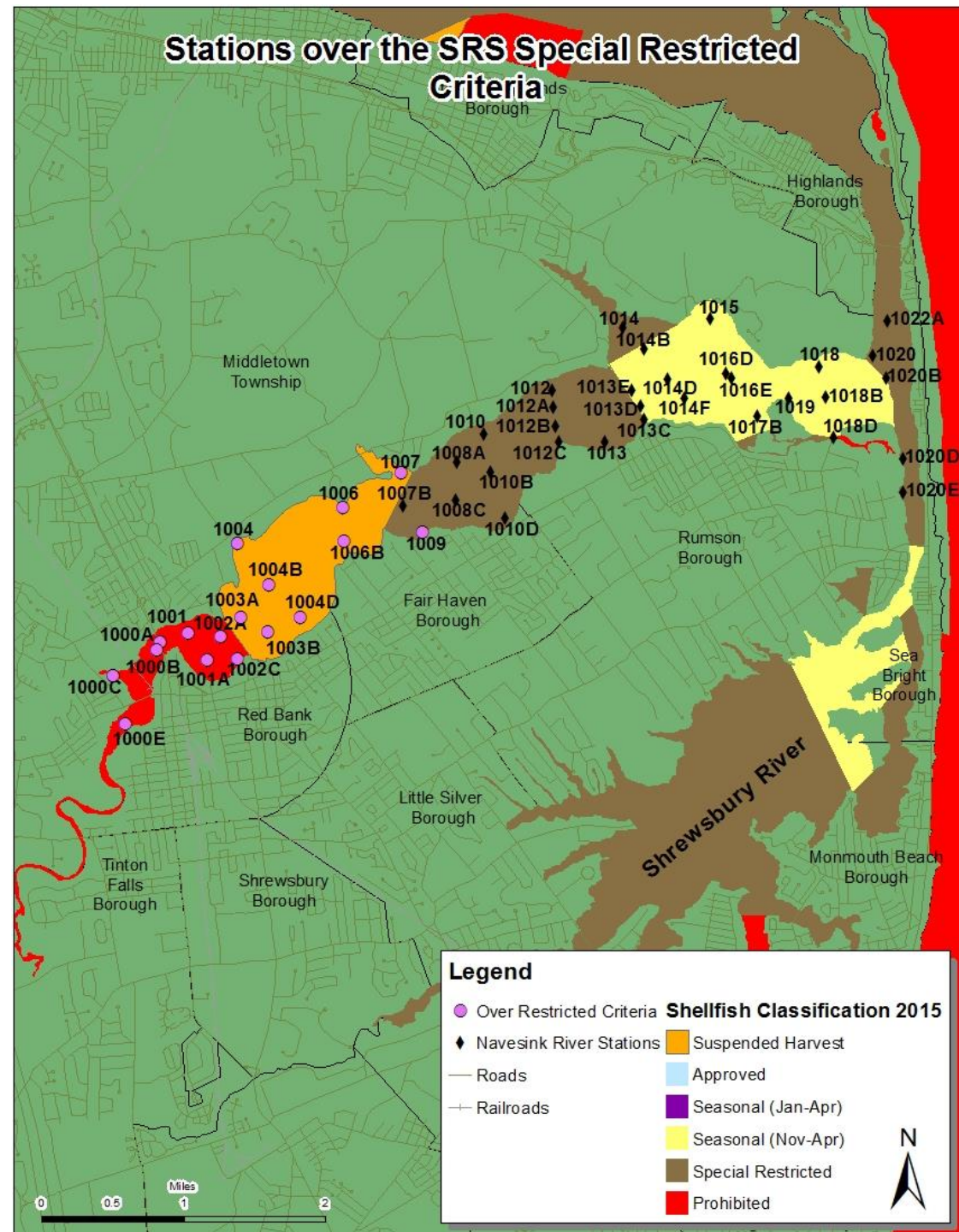
Criteria:

Geometric Mean 88 CFU's/100mL
Est 90th: 163 CFU's/100mL

Stations Exceeding:

Sixteen stations exceed Special Restricted criteria.

One station in Special Restricted waters: *1009*. No downgrade recommended at this time, intensive shoreline and sampling recommended.



Report Area: NE2

Station: 1007	Depth: S	Station: 1007B	Depth: S	Station: 1008A	Depth: S	Station: 1008C	Depth: S	Station: 1009	Depth: S
Geo Mean (YR): 29.5		Geo Mean (YR): 14.0		Geo Mean (YR): 11.6		Geo Mean (YR): 14.0		Geo Mean (YR): 19.1	
Est 90th (YR): 339.7		Est 90th (YR): 104.0		Est 90th (YR): 75.9		Est 90th (YR): 107.0		Est 90th (YR): 181.6	
# Samples (YR): 31		# Samples (YR): 31		# Samples (YR): 31		# Samples (YR): 31		# Samples (YR): 31	
45.2% > 31		25.8% > 31		22.6% > 31		29.0% > 31		29.0% > 31	
ShellClass: SR		ShellClass: SR		ShellClass: SR		ShellClass: SR		ShellClass: SR	

Date	Results	Date	Results	Date	Results	Date	Results	Date	Results
6/18/2012	15.0	6/18/2012	9.0	6/18/2012	6.0	6/18/2012	12.0	6/18/2012	3.0
7/31/2012	370.0	7/31/2012	12.0	7/31/2012	18.0	7/31/2012	6.0	7/31/2012	12.0
9/28/2012	100.0	9/28/2012	15.0	9/28/2012	21.0	9/28/2012	9.0	9/28/2012	6.0
12/26/2012	3.0	12/26/2012	3.0 K	12/26/2012	3.0	12/26/2012	3.0	12/26/2012	15.0
1/14/2013	9.0	1/14/2013	3.0	1/14/2013	6.0	1/14/2013	6.0	1/14/2013	15.0
2/28/2013	180.0	2/28/2013	30.0	2/28/2013	9.0	2/28/2013	39.0	2/28/2013	15.0
4/5/2013	3.0 K	4/5/2013	3.0	4/5/2013	3.0	4/5/2013	6.0	4/5/2013	3.0 K
4/23/2013	9.0	4/23/2013	6.0	4/23/2013	6.0	4/23/2013	3.0	4/23/2013	18.0
6/6/2013	3.0	6/6/2013	3.0 K	6/6/2013	3.0 K	6/6/2013	12.0	6/6/2013	9.0
7/23/2013	2,700.0 L	7/23/2013	130.0	7/23/2013	210.0	7/23/2013	240.0	7/23/2013	330.0
8/6/2013	220.0	8/6/2013	12.0	8/6/2013	42.0	8/6/2013	6.0	8/6/2013	42.0
9/3/2013	170.0	9/3/2013	200.0	9/3/2013	93.0	9/3/2013	170.0	9/3/2013	90.0
11/19/2013	3.0 K	11/19/2013	3.0	11/19/2013	3.0 K	11/19/2013	3.0 K	11/19/2013	21.0
12/18/2013	24.0	12/18/2013	45.0	12/18/2013	30.0	12/18/2013	21.0	12/18/2013	33.0
1/15/2014	27.0	1/15/2014	30.0	1/15/2014	3.0	1/15/2014	15.0	1/15/2014	3.0
3/12/2014	3.0	3/12/2014	3.0 K	3/12/2014	3.0 K	3/12/2014	3.0	3/12/2014	3.0 K
4/2/2014	9.0	4/2/2014	3.0	4/2/2014	3.0	4/2/2014	3.0 K	4/2/2014	21.0
5/1/2014	700.0	5/1/2014	1,100.0	5/1/2014	800.0	5/1/2014	700.0	5/1/2014	500.0
5/13/2014	27.0	5/13/2014	15.0	5/13/2014	6.0	5/13/2014	21.0	5/13/2014	30.0
6/26/2014	52.0	6/26/2014	97.0	6/26/2014	33.0	6/26/2014	93.0	6/26/2014	130.0
9/9/2014	42.0	9/9/2014	15.0	9/9/2014	30.0	9/9/2014	9.0	9/9/2014	15.0
10/6/2014	80.0	10/6/2014	30.0	10/6/2014	15.0	10/6/2014	33.0	10/6/2014	160.0
11/17/2014	600.0	11/17/2014	42.0	11/17/2014	93.0	11/17/2014	100.0	11/17/2014	1,400.0
12/4/2014	39.0	12/4/2014	73.0	12/4/2014	9.0	12/4/2014	55.0	12/4/2014	24.0
1/7/2015	3.0 K	1/7/2015	12.0	1/7/2015	21.0	1/7/2015	12.0	1/7/2015	3.0 K
3/20/2015	6.0	3/20/2015	3.0 K	3/20/2015	3.0 K	3/20/2015	3.0 K	3/20/2015	3.0 K
4/1/2015	3.0 K	4/1/2015	3.0 K	4/1/2015	3.0 K	4/1/2015	3.0 K	4/1/2015	3.0 K
4/16/2015	6.0	4/16/2015	3.0 K	4/16/2015	3.0 K	4/16/2015	3.0 K	4/16/2015	3.0 K
4/30/2015	15.0	4/30/2015	3.0	4/30/2015	3.0 K	4/30/2015	3.0 K	4/30/2015	3.0 K
6/1/2015	48.0	6/1/2015	100.0	6/1/2015	42.0	6/1/2015	230.0	6/1/2015	400.0
7/17/2015	170.0	7/17/2015	6.0	7/17/2015	6.0	7/17/2015	3.0 K	7/17/2015	6.0

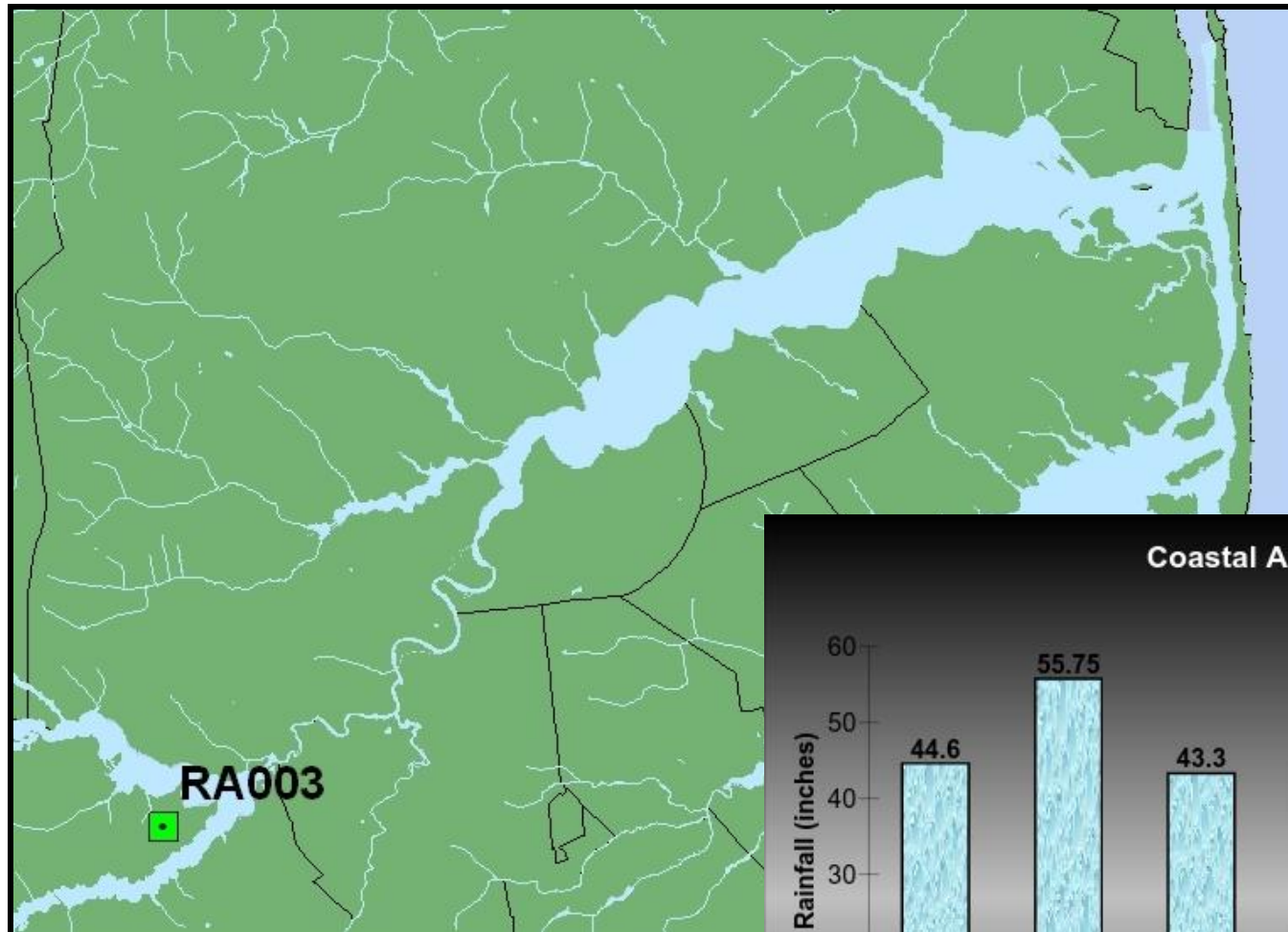
Rainfall Summary

From: 6/1/2012 To: 8/31/2015

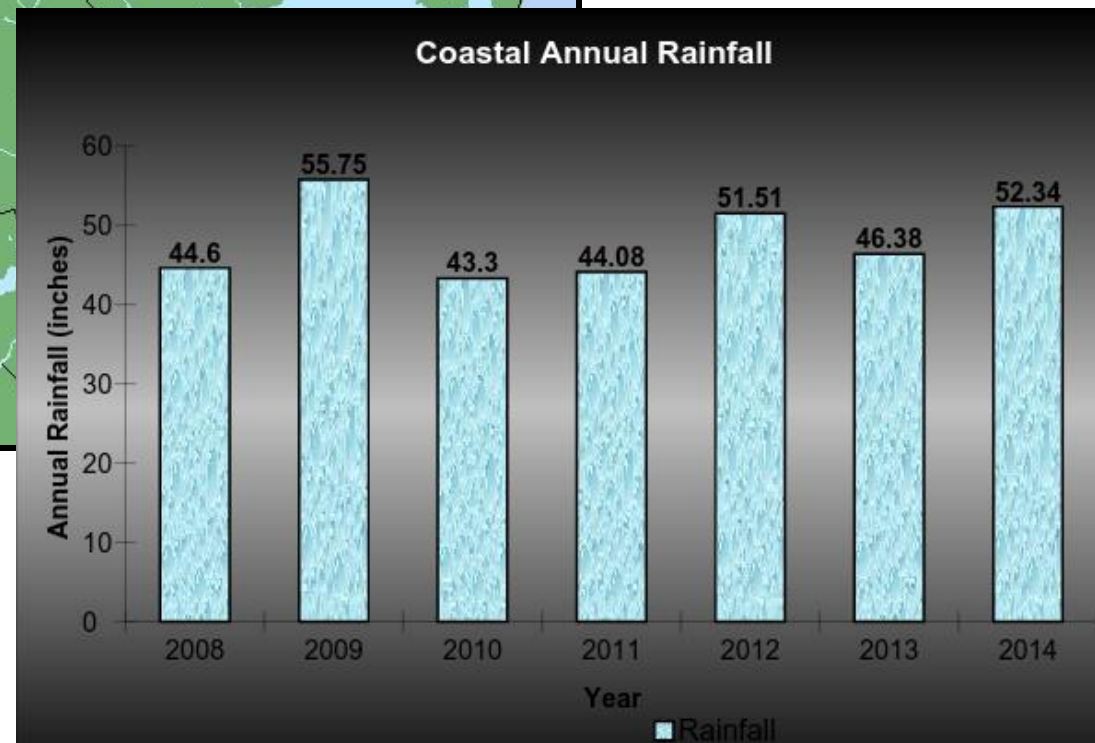
Report Area: NE2

		Rainfall Amount		
Date	NOAA	24Hrs	48Hrs	72Hrs
6/18/2012	RA003	0.00	0.00	0.00
7/31/2012	RA003	0.00	0.00	0.51
9/28/2012	RA003	0.09	0.10	0.10
12/26/2012	RA003	0.00	0.16	0.16
1/14/2013	RA003	0.00	0.00	0.66
2/28/2013	RA003	0.04	0.83	0.83
4/5/2013	RA003	0.02	0.02	0.02
4/23/2013	RA003	0.00	0.00	0.03
6/6/2013	RA003	0.00	0.00	0.56
7/23/2013	RA003	0.92	0.94	0.94
8/6/2013	RA003	0.00	0.00	0.06
9/3/2013	RA003	0.12	0.13	0.14
11/19/2013	RA003	0.01	0.27	0.32
12/18/2013	RA003	0.21	0.21	0.21
1/15/2014	RA003	0.37	0.37	0.37
3/12/2014	RA003	0.00	0.00	0.00
4/2/2014	RA003	0.00	0.12	0.41
5/1/2014	RA003	3.71	4.23	4.23
5/13/2014	RA003	0.08	0.08	0.25
6/26/2014	RA003	1.15	1.15	1.15
9/9/2014	RA003	0.00	0.00	0.76
10/6/2014	RA003	0.00	1.02	1.07
11/17/2014	RA003	0.42	0.42	0.43
12/4/2014	RA003	0.07	0.46	0.59
1/7/2015	RA003	0.01	0.01	0.38
3/20/2015	RA003	0.00	0.00	0.01
4/1/2015	RA003	0.12	0.13	0.13
4/16/2015	RA003	0.00	0.22	0.22
4/30/2015	RA003	0.00	0.00	0.00
6/1/2015	RA003	0.39	0.39	0.39
7/17/2015	RA003	0.00	0.18	1.08

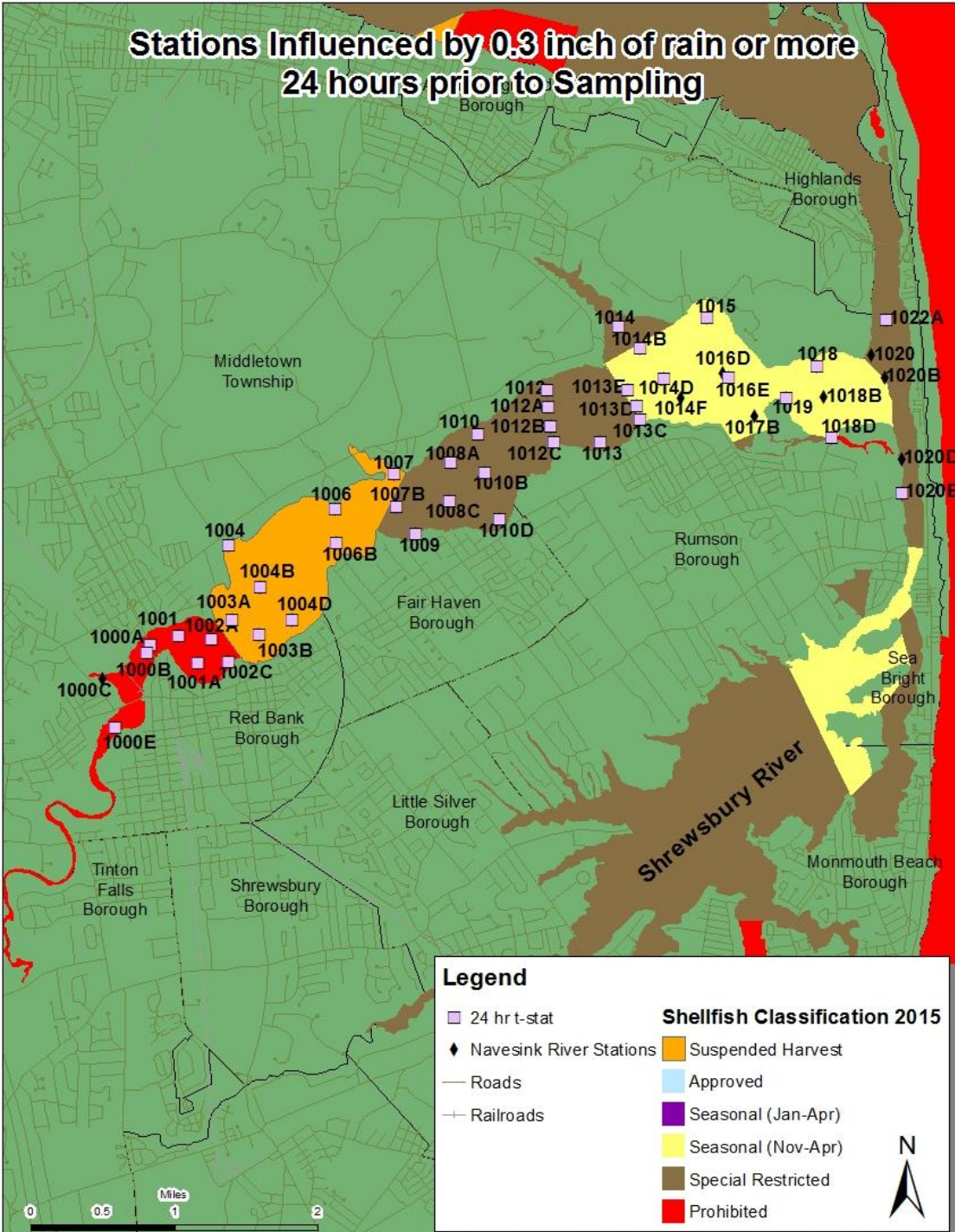
Rainfall Analysis



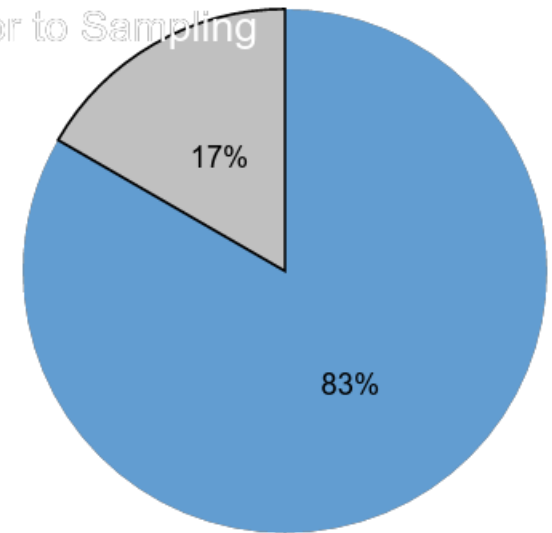
- NOAA Rainfall [Station RA003](#)
- Impacted at 0.3 inch rain
- More t-statistics at 24-48 hours prior to sampling, Immediate Impact

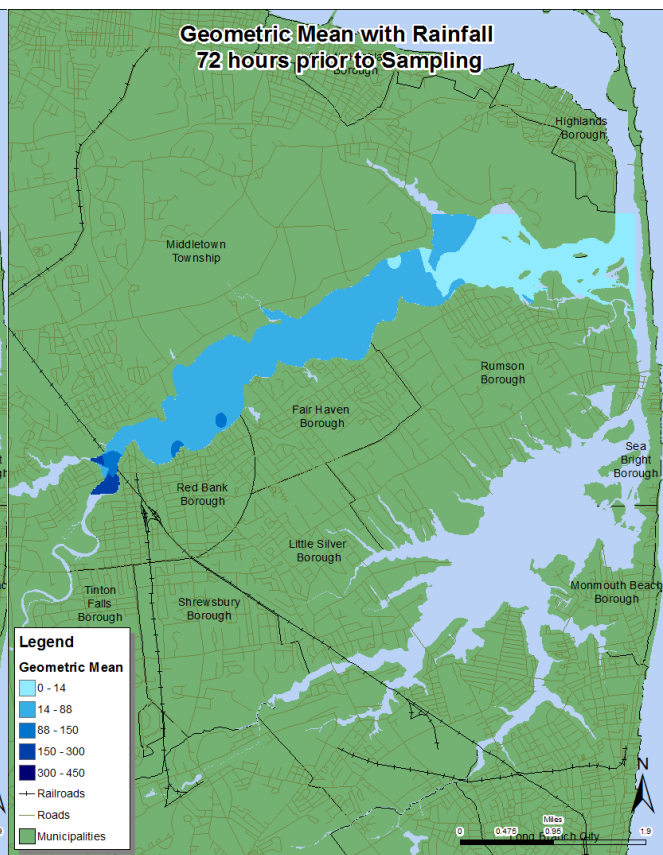
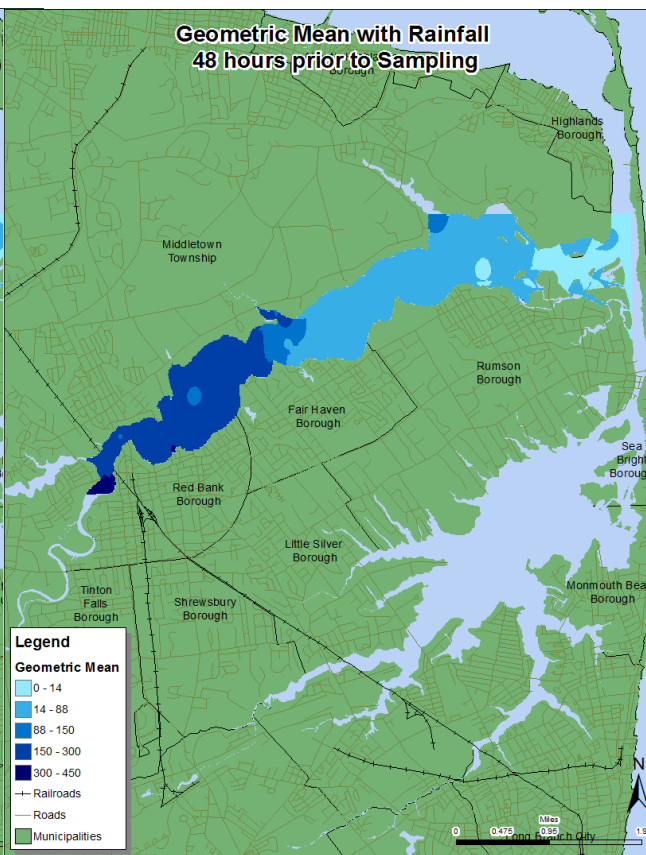
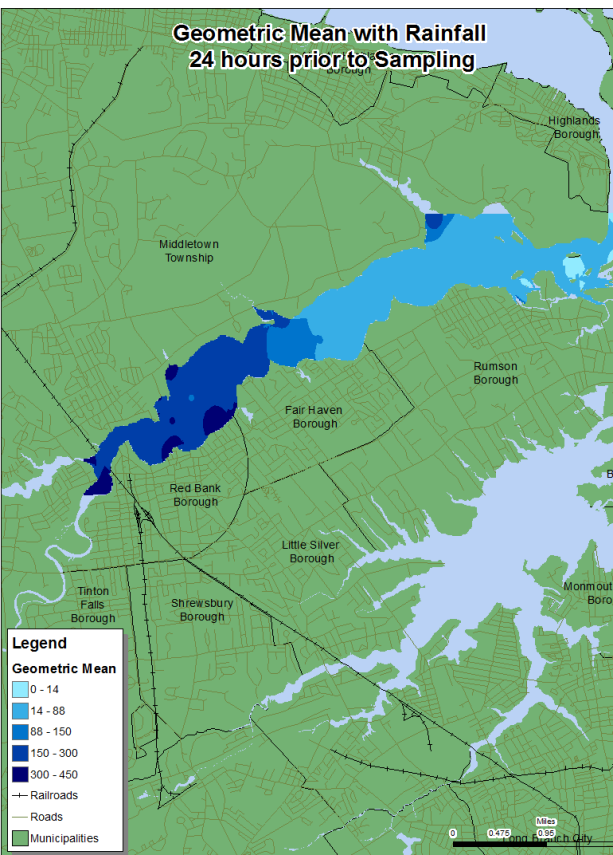


Stations Influenced by 0.3 inch of rain or more 24 hours prior to Sampling



Stations Impacted by Rainfall 24hrs prior to Sampling





- Rainfall impact and lack of point source discharges, suggests a Non Point Source Pollution (NPS).
- NPS Pollution, we are all part of, everything we do on land can affect the water through storm water runoff, we have documented high bacteria counts from storm water runoff with no failing infrastructure.
- Sources could be failing/old septic systems, sewage infrastructure issues, wildlife, domestic animals (dogs, horses etc.), agriculture (animal activities).
- Should move forward with no blame to anyone, best approach is for all groups to work together to try to improve water quality.

- Storm sampling is conducted to collect samples pre-storm, first flush, 1 hour, and 2 hours from shore by potential sources. Also boat samples collected to monitor the main flow of the river.
- Perform bacterial analysis, and ARA for samples with high bacteria counts.
- Present findings to all partners as soon as possible to start to look into areas with high bacteria counts, to try to start the process of any actions to correct water quality problems immediately.

explain the problem. If you want to [save your Google Map](#) to your web site, the HTML source of the map must be m

