data that makes case TMDL is only needed in Hackensack and Passaic Rivers
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to:
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1 Attachment

image003.png

Rosella:

This is the data (not model results) that was the basis for determining TMDLs are needed in Hackensack and Passaic not other Harbor areas . As I mentioned, on the call the modeling was not the basis of selecting the waters so we do not need to revisit specification of head-of-tide modeling in other areas.

This section addresses the attainment of primary contact recreation criteria based on the States Interpretation of the Beach Act. In this case, the criteria are based on a seasonal enterococci geometric mean concentration of 35 No./100mL. The assessment is based on recent water quality data (2008 – 2009) and model results that represent a three year return period.

Data Analysis

Data collected in 2008 and 2009 were evaluated for compliance of primary contact recreation. The basis for this analysis is the New York City Harbor Survey (NYHS) data and the New Jersey Harbor Discharge Group (NJHDG) Survey data. Both these groups survey their respective stations approximately once per week during the summer period. The station locations for these surveys are shown on Figures 3 and 4.

The geometric mean concentrations for enterococci were calculated for both the NYHS data and the NJHDG data. These results are shown on Tables 7 and 8.

This analysis focuses on the open waters of the harbor. The tributaries in New York (i.e. Gowanus Canal, Bronx River, etc) are not considered art of the study. Likewise, the Saddle River, Second River, tributaries to the Passaic River, Berrys Creek tributary to the Hackensack River, and the Rahway River are not considered

part of this analysis.
The results indicate that for the open waters that there is a slight non-attainment in the Harlem River using the NYHS data and there is observed non-attainment in the Passaic River and Hackensack River using the NJHDG data

Table 7. Statistical Characteristics of NYHS 2008 – 2009
Enterococci Data

Station ID	Station Location	Standard	Seasonal Geo Mean	Compliance with Primary Contact
K01	The Kills	35	6	Y
K02	The Kills	35	5	Y
K03	The Kills	35	6	Y
K04	The Kills	35	4	Y
K05	The Kills	35	3	Y
K05A	Raritan Bay	35	3	Y
E14	East River	35	6	Y
E02	East River	35	5	Y
E04	East River	35	6	Y
E06	East River	35	6	Y
E07	East River	35	4	Y
E08	East River	35	3	Y
E10	East River	35	2	Y
N01	Hudson River	35	4	Y
N03B	Hudson River	35	7	Y
N04	Hudson River	35	7	Y
N05	Hudson River	35	4	Y
N06	Upper New York Bay	35	5	Y
N07	Upper New York Bay	35	4	Y
N08	Lower New York Bay	35	3	Y
N09	Lower New York Bay	35	2	Y
K06	Raritan Bay	35	2	Y
H01	Harlem River	35	36	N
H02	Harlem River	35	5	Y

Table 8. Statistical Characteristics of NJHDG 2008 – 2009 Enterococcus Data

Seasonal Geometric Mean Station ID Geo Mean	Station Location	Standard	Seasonal	Compliance with Recreational
		Standards		
1	Passaic/Totowa Ave.	FW2(1)	39	NA(3)
2	Passaic/Northwest St	FW2	104	NA
3	Passaic/Lincoln Ave.	FW2	79	NA
4	Passaic/Market St.	FW2	33	NA
5	Passaic/Dundee Dam	FW2	56	NA
6	Saddle River	35	375	N
7	Passaic/Union Ave.	35	83	N
8	Passaic/Rutgers St.	35	111	N
9	Second River	35	821	N
10	Passaic/Clay St.	35	94	N
11	Passaic/Jackson St.	35	76	N
12	Passaic/Kearney Pt.	35	13	Y
13	Hackensack/Oradell D	35	15	Y
14	Hackensack/Berrys C	35	140	N
15	Hackensack/Marion	35	40	N
16	Hackensack/Mouth	35	16	Y
17	Newark/Upper	35	7	Y
18	Newark/Lower	35	4	Y
19	Newark/Shooters Is.	35	4	Y
20	Elizabeth	FW2	480	NA
21	Arthur Kill/Elizabeth	35	12	Y
22	Rahway	35	244	N
23	Arthur Kill/Rahway	35	7	Y
24	Arthur Kill/Reading	35	5	Y
25	Raritan/Upstream	FW2	245	NA
26	Raritan/Basilone Br.	FW2	48	NA
27	Raritan/Wash. Canal	FW2	34	NA
28	Raritan Bay/West	35	6	Y
29	Raritan Bay/Central	35	2	Y
30	Raritan Bay/Crookes P	35	2	Y
31	Hudson/GW Bridge	35	3	Y
32	Hudson/Lincoln T	35	3	Y
33	Hudson/Holland T	35	4	Y

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