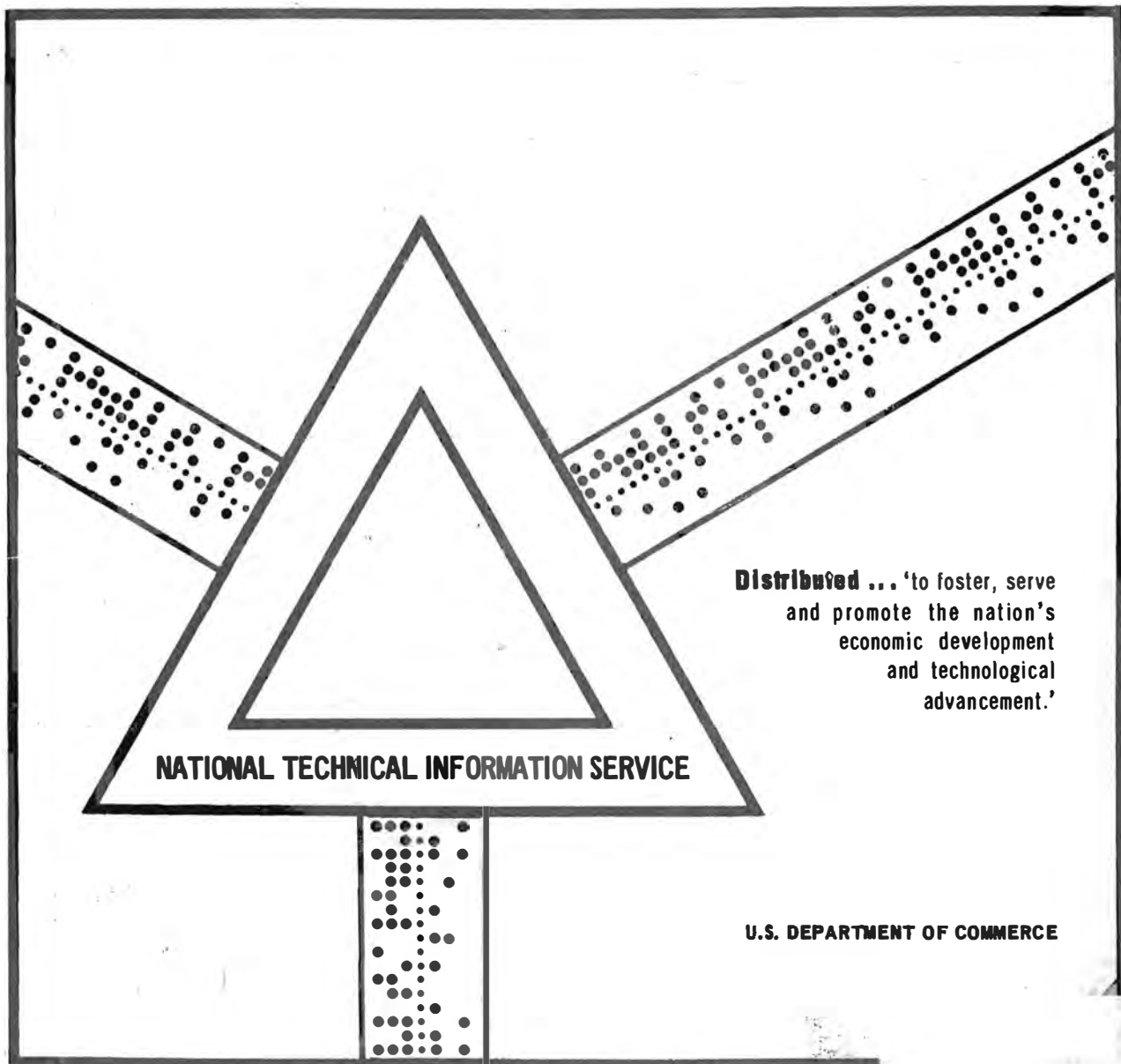


POLLUTION STUDIES FOR INTERSTATE SANITATION
COMMISSION NEW YORK HARBOR MODEL

U. S. Army Engineer Waterways Experiment Station
Vicksburg, Mississippi

February 1963



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POLLUTION STUDIES FOR INTERSTATE SANITATION COMMISSION NEW YORK HARBOR MODEL

Hydraulic Model Investigation



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February 1963

U. S. Army Engineer Waterways Experiment Station
CORPS OF ENGINEERS
Vicksburg, Mississippi

ARMY-MRC VICKSBURG, MISS.

Preface

This report describes pollution tests conducted for the Interstate Sanitation Commission, 10 Columbus Circle, New York 19, New York, on the New York Harbor model at the U. S. Army Engineer Waterways Experiment Station (WES). Cosponsors of the study were the New York State Water Pollution Control Board, the New Jersey State Department of Health, and the New York City Department of Health.

The tests were requested by the Interstate Sanitation Commission in letter of 18 March 1959 to the District Engineer, U. S. Army Engineer District, New York, who approved use of the model for the study and referred the request to the Director, WES. The authority of the Chief of Engineers to conduct the study was granted in the 1st Indorsement, dated 19 February 1960, to a letter of 12 February 1960 from the Director, WES.

The study was conducted during the period August 1961-February 1963 under the general supervision of Messrs. E. P. Fortson, Jr., Chief, Hydraulics Division; G. B. Fenwick, Chief, Rivers and Harbors Branch; and H. B. Simmons, Chief, Estuaries Section, and under the immediate supervision of Mr. W. H. Bobb. This report was prepared by Messrs. Simmons and Bobb.

Director of the WES during the course of this investigation and preparation of this report was Col. Alex G. Sutton, Jr., CE. Technical Director was Mr. J. B. Tiffany.

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POLLUTION STUDIES FOR INTERSTATE SANITATION COMMISSION

NEW YORK HARBOR MODEL

Hydraulic Model Investigation

Purpose and Scope of Study

1. During the past several years, the need for knowledge regarding the pollution-recovery capacity of the New York Harbor system has become more pressing. The increasing rate of industrial and population growth in the area has emphasized the need for cleaner waters, especially in areas which are being considered for development for recreational purposes. Certain complexities and variables inherent in estuaries make the understanding of waste stabilization in estuaries considerably more difficult to comprehend than that in streams with one-directional flow. The dispersion characteristics of a discharged material must be reasonably well known before an intelligent evaluation of waste stabilization in a system can be made. The model tests reported herein were undertaken to obtain data necessary to establish the dispersion characteristics of effluents discharged from several of the major sewage treatment plants contributing to pollution in New York Harbor.

2. At the present time, approximately 135 sewage treatment plants of various types and capacities discharge into the harbor complex. It was impracticable to conduct model tests of all 135 plants for reasons of both time and cost; nor was it considered necessary that all plants be tested, since the dispersion characteristics of many of the plants could be interpolated from the results of tests of adjacent plants. Therefore, 10 of the major plants discharging into the system at representative locations were selected for testing. The plants tested include Tallmans Island, Wards Island, and Newtown Creek plants, which discharge into the East River; New Yorkers and North River plants, which discharge into the Hudson River; Owl's Head and Passaic Valley plants, which discharge into Upper New York Bay; the Rahway River plant, which discharges into Arthur Kill; the Middlesex County plant, which discharges into Raritan Bay; and the Jamaica Bay plant, which discharges into Grassy Bay, a part of Jamaica Bay. In

addition, a test was conducted to determine the dispersion patterns of a slug release (a one-cycle release) simulating an accident at the Consolidated Edison plant, located on the Hudson River near Peekskill, New York. The outfall locations of all plants tested are shown in plate 1.

3. The tests were accomplished by injecting conservative fluorescent dyes into the model to represent the sanitary or other waste being studied, then sampling to determine the dispersion of the dye. This report merely presents the test data in terms of dye concentration with respect to time; no attempt is made herein to convert the concentrations of conservative dye observed in the model to equivalent concentrations of the nonconservative wastes of the prototype.

The Model

4. The New York Harbor model is of the fixed-bed type and is constructed to linear scale ratios, model to prototype, of 1:1000 horizontally and 1:100 vertically. The prototype area reproduced is shown in plate 1. Tides and tidal currents are reproduced in the model by means of a primary tide generator, located at the Lower New York Bay model limit, and by separate but synchronized, secondary, two-way flow-control devices located at the model limits of the Hudson River and Long Island Sound, respectively. The salinity of the model ocean is maintained at the same salinity as the prototype (the salinity scale being 1:1), and the freshwater discharges of the Hudson and Raritan Rivers are introduced at Hyde Park, New York, and Fieldville, New Jersey, respectively. Upland freshwater flows into rivers other than the Hudson and Raritan are disregarded because of the small quantities involved.

5. The hydraulic and salinity adjustments of the model were based upon a great number of prototype observations of tides, tidal currents, and salinities made by the Corps of Engineers and the U. S. Coast and Geodetic Survey. In practice, the three tide generators were first adjusted to reproduce to scale all characteristics of a given prototype tide at the three model terminal points involved; then the spacing and nature of roughness elements installed in the concrete bed of the model were varied as necessary to reproduce the proper tidal elevations, tidal phases, and current

velocities throughout the model. These adjustments resulted in a very accurate reproduction of (a) tidal elevations with respect to time throughout the model, (b) the strengths and durations of tidal currents from bank to bank and from surface to bottom in all channels, and (c) the distribution of salinity in both plan and vertical throughout the model for any given conditions of tide and river discharge. Quantitative reproduction in the model of the mixing of salt and fresh waters of the prototype, together with the complex circulation patterns in both vertical and plan associated with density and tidal effects, ensured that the dispersion patterns of dye tracers released in the model would be similar to those of the wastes discharged into the prototype.

Tests and Procedures

Preliminary dye loss determinations

6. The sewage treatment plant effluent was simulated by the use of fluorescent dyes. The dyes selected for use were pontacyl brilliant pink and uranine. Prior to undertaking the tests, it was necessary to determine the amount of dye which would be lost during a test by absorption, adsorption, or other processes. Therefore, preliminary tests were performed to determine the rate of dye loss with respect to time so that the test results could be corrected if necessary. The central portion of the model, including the lower Hudson and East Rivers, Upper New York Bay, Kill Van Kull, and Newark Bay, was divided into sections. Both types of dye were then injected in each section simultaneously, with the turbidity and initial dye concentration in the various sections being adjusted to cover the expected ranges of both during actual testing. The water in each section was circulated by pumps to simulate tidal flow, and samples were obtained periodically and analyzed. These studies indicated that dye loss during an interval of time equivalent to the expected testing time was essentially zero, and it was concluded that no correction of the test results for dye loss was necessary.

Test conditions

7. All tests were made for mean tide conditions, and tide heights at several critical locations for mean tide and median river discharges

are shown in plate 4. The freshwater discharges of the Hudson and Raritan Rivers were adjusted to median values of 12,000 and 1770 cfs, respectively, for initial tests of all the treatment plants and for the test simulating a slug release at the Consolidated Edison plant. In addition, the Owl's Head and Passaic Valley plants, which discharge into Upper New York Bay, were tested for conditions of both high and low freshwater discharges in both rivers so that the effects of freshwater discharge on dispersion characteristics could be evaluated. The high discharges in the two rivers were 24,000 and 3530 cfs, respectively, and the low discharges were 4500 and 665 cfs, respectively. Pertinent operation data for the tests of each plant are presented in table 1, including the outfall elevation in feet below mean low water (mlw), the plant discharge in mgd, the type of release simulated, the freshwater discharges of the Hudson and Raritan Rivers, the initial dye concentration used to represent the waste being simulated, and the total amount of dye released during each test.

8. Two of the most important recreational areas in the New York Harbor area are the Coney Island and Staten Island beaches. It has been suggested that dikes extending into Lower New York Bay on both sides of the Narrows would benefit these beaches by deflecting the polluted waters seaward and thus increasing the length of time required for pollution to reach the beaches. Since the Owl's Head and Passaic Valley plants appear to be two of the most probable sources of pollution along the Coney Island and Staten Island beaches, an additional test was made with these plant outfalls in operation and with the proposed dikes installed in the model (see plate 2).

Dye concentration and sampling

9. The use of two fluorescent dyes made it possible to test the effluents from two treatment plants simultaneously, since one dye could be used to simulate the discharge from one plant and the other to simulate the discharge of the second plant. The only exception to this procedure was the Consolidated Edison plant test, which involved a slug release of only one dye. As previously stated, the two dyes selected for use were pontacyl brilliant pink and uranine, because the light generated by these dyes is visible at opposite ends of the spectrum. Preliminary tests disclosed that the uranine present in a sample containing both dyes had no effect on the

pontacyl pink present in the sample; however, the pontacyl pink present did have a slight effect on the response of the uranine. Calibration tests indicated this effect to be equal to 5 percent of the pontacyl pink present in the composite samples, and all uranine values were corrected accordingly.

10. The first test conducted was a combination test of the Tallmans Island and Wards Island plants. At that time it appeared that an initial dye concentration of about 10,000 ppb to represent the effluent discharge would be optimum from an instrumentation standpoint, and this concentration was used in the first test. It was found, however, that a higher concentration would be much more desirable, and an initial concentration of 100,000 ppb was used for all other tests involving plant outfalls. The results of the Tallmans Island and Wards Island plants test presented in tables 2 and 11 are as observed in the model; however, the data presented in table 13 and plates 6 and 7 have been multiplied by a factor of 10 to adjust the observed concentrations to be comparable to those of other tests made with an initial dye concentration of 100,000 ppb. The initial dye concentration for the test simulating a slug release at the Consolidated Edison plant was 1,000,000 ppb to ensure that detectable concentrations of dye would be present for the duration of this test.

11. Initial concentrations of dye were prepared by mixing dye with water of the average density of water passing the release point in the ratio of 100 grams of dye to 1 liter of water (10 grams of dye to 1 liter of water for the test of Tallmans Island and Wards Island plants, and 1000 grams of dye to 1 liter of water for the Consolidated Edison test, as described in the previous paragraph). During the course of each test, water samples were obtained at times of local high- and low-water slack of the current from the various sampling stations for which information was desired, and were analyzed with Turner fluorimeters. The locations of all sampling stations employed during the tests are shown in plates 1-3. All samples were withdrawn from a point 5 ft (prototype) below the water surface, since the surface waters are of major interest to all concerned.

12. Prior to starting the simulated plant discharges in each test, samples were obtained at high- and low-water slack at each sampling station to be used for that test, and these samples were analyzed to determine the concentration of dye, or "background" concentration, remaining from

previous tests. Samples obtained subsequently from each station were adjusted to remove the background concentration which existed at that station prior to release of the dye. If background concentrations approached 50 ppb, the model water-supply system was drained and refilled, since it was not considered desirable to make adjustments in excess of about 50 ppb for background.

Method Used in Reduction of Data

13. The steps involved in reducing the raw test data to the form shown in the tables and plates presented herein were as follows:

- a. The dye concentration of each sample was determined from curves of Turner fluorometer readings versus concentrations for both pontacyl brilliant pink and uranine.
- b. The dye concentrations were corrected for background concentrations (dye detected prior to starting a test).
- c. The concentration of uranine in each sample was reduced by 5 percent of the pontacyl brilliant pink present, since it had been previously determined from calibration tests that the pontacyl pink had a 5 percent effect on the uranine (the concentration of uranine in a sample had no effect on the pontacyl brilliant pink present).
- d. Plots of dye concentration in parts per billion as a function of time, expressed in tidal cycles after initiation of test, for each observation station were prepared by plotting the values determined in b or c on semilog paper and drawing a smooth, best-fit curve. Examples of the plots thus developed are shown in plate 5. Copies of all curves for all tests have been furnished to the Interstate Sanitation Commission.
- e. Corrected concentrations at significant times during each test were taken from the smooth curves.
- f. Profiles of dye concentration at high-water slack for tidal cycles 3, 5, 7, 10, 15, 20, 30, and 50 were prepared from values taken from the curves of dye concentration versus time (as illustrated in plate 6).
- g. The peak concentration at each station and the time of the first occurrence of the peak concentration were taken from the smooth curves and are given in tables 11 and 12.

Results of Dye Tests

Dispersion of dye from plant outfalls

14. The results of tests to determine the dispersion patterns of dye

from the 10 major plant outfalls for conditions of median river discharge are presented in tables 2-5 and 9. Each table presents the results of two tests (e.g. the results of tests of the Tallmans Island and Wards Island plants are presented in table 2). The first column in each table indicates the tidal cycle during which samples were obtained; tidal cycle zero in each test is the beginning of discharge from the plant outfalls. The next column, headed "Observed," shows the measured dye concentration of each sample obtained from the model in parts per billion. The next column, headed "Corrected," shows the dye concentration as determined from the smooth, best-fit curves developed from plots of dye concentration as a function of time. A dash in the "Observed" column indicates that no sample was obtained during that tidal cycle, while a zero indicates that a sample was obtained but no measurable dye was detected. As pointed out in paragraph 10, the initial dye concentration for the test of the Tallmans Island and Wards Island plants was 10,000 ppb (table 2), while that for the other tests in this series was 100,000 ppb.

Effects of river discharge on dispersion

15. The effects of river discharge on the dispersion of dye from the Owl's Head and Passaic Valley plant outfalls can be determined by direct comparison of the results of tests with median river discharge (table 9), low discharge (table 6), and high discharge (table 7). The initial dye concentration for each of these tests was 100,000 ppb.

Effects of dikes at Narrows

16. The locations of the dikes tested to determine their potential benefits to the Coney Island and Staten Island beaches are shown in plate 2. The effects of these structures on dye concentrations dispersed from the Owl's Head and Passaic Valley plants along the beaches and at other critical locations can be determined by direct comparison of data presented in tables 9 and 10. Data presented in table 9 show dye concentrations without the dikes, while data presented in table 10 show dye concentrations with the proposed dikes installed in the model. The river discharges were median for both of these tests. The test results show to what extent dye originating from each of the two sources considered (Owl's Head or Passaic Valley plant) would be affected by the

proposed dikes within the critical areas adjacent to the beaches.

Dispersion of dye along major channels

17. Data presented in tables 2-5 and 9 for tests of the major plant outfalls under conditions of median river discharges, and those presented in tables 6 and 7 for low and high river discharges and in table 10 for the tests of the proposed dikes, were summarized to show the dye dispersion at high- and low-water slack at significant time intervals along the center lines of the major channels comprising the New York Harbor system. The results of this summary are presented in table 13. In this table, observed data for the test of Tallmans Island and Wards Island plants (table 2) have been increased by a factor of 10 to make these test data directly comparable to those of the other tests which involved initial concentrations 10 times as great as those of the Tallmans Island and Wards Island plant tests.

18. Data presented in table 13 for high-water slack have also been plotted in plates 6-29 to show graphically the distribution of dye along the major channels of the harbor at critical times during the tests. It is emphasized that the observed dye concentrations for the test of the Tallmans Island and Wards Island plants have been increased by a factor of 10 to make these data directly comparable to those of the remaining tests.

Peak concentrations,
and times of occurrence

19. Data presented in tables 11 and 12 were compiled to show the peak dye concentration at each station, and the earliest time of occurrence of the peak concentration, for all tests of plant outfalls. The results of tests of the Tallmans Island, Wards Island, Middlesex County, Rahway River, New Yonkers, North River, Jamaica Bay, and Newtown Creek plants, all for median river discharges, are presented in table 11. The results of tests of the Owl's Head and Passaic Valley plants, for conditions of low, median, and high river discharges, are presented in table 12. Also, the results of the tests of these plants for median flow conditions with the proposed dikes installed on both sides of the Narrows are presented in table 12.

20. Data presented in tables 11 and 12 indicate the degree to which the dye concentration had stabilized at each station during each test. If the maximum (peak) dye concentration at a particular station occurred at tidal cycle 50, stability had not been attained by the end of the test, or

the "plateau" concentration had not been reached. On the other hand, if the peak concentration was reached prior to tidal cycle 50, the plateau concentration had been reached, and continued model operation did not result in higher concentrations for the particular conditions of the test involved. In table 11, dye concentration data for the test of the Tallmans Island and Wards Island plants are as observed in the model and have not been adjusted to make these data directly comparable to those of the other tests shown in this table; the times of maximum concentration at the various stations for this test are accurate as shown and do not require adjustment.

Slug release at Consolidated Edison plant

21. This test involved the release of 6 liters of dye, having an initial concentration of 1,000,000 ppb, at a uniform rate over one complete tidal cycle at the site of the Consolidated Edison plant (see plate 1) at a depth of 20 ft. The results of subsequent sampling to ascertain dispersion of the dye are presented in table 8, and the dye distribution along the major channel system at critical times during the test is shown in plate 30. The distribution of the dye along the major channel system at high- and low-water slack at critical times during the test is also shown on sheet 9 of table 13.

Supplemental Data

Hydraulic data

22. The results of current velocity measurements made at one cross section in East River and two cross sections in Arthur Kill are presented in table 14; the tide conditions being reproduced in the model while these measurements were in progress are shown in plate 4. Analysis of the velocity measurements in East River indicates that, for the tidal conditions reproduced in the model (mean tides at Sandy Hook in Lower New York Bay and at Throgs Neck at the confluence of East River and Long Island Sound), the southerly flow in East River over a tidal cycle exceeded the northerly flow by about 17 percent. It is apparent that, under such conditions, wastes discharged into the East River would be moved progressively toward Upper

New York Bay rather than toward Long Island Sound. While there are probably many combinations of tides in Lower New York Bay and Long Island Sound which would produce a northerly net movement in East River rather than a southerly one, or which would change the magnitude of the southerly net drift indicated by these measurements, it appears likely that such events would be of an intermittent nature, and the average condition indicated by these measurements is of greatest significance in considering the diffusion and dispersion of wastes discharged into East River.

23. The two series of velocity measurements made in Arthur Kill show essentially zero net movement in this waterway, thus indicating that the flushing of this system probably occurs very slowly. However, visual observations made in the model show that a significant portion of the water which enters Newark Bay from Arthur Kill during the period of northerly flow in Arthur Kill does not return to Arthur Kill during the period of southerly flow in this channel. Instead, this water flows from Newark Bay through Kill Van Kull and thence into Upper New York Bay, and wastes entrained in this portion of the flow are effectively flushed from Arthur Kill. Thus, the filling and emptying of the Newark Bay tidal prism acts as a pump in removing polluted water from Arthur Kill and injecting it into Upper New York Bay.

Times of high- and low-water slack

24. The times of high- and low-water slack of the current at all sampling stations employed in the tests reported herein are presented in two ways in table 15: (a) the times of high- and low-water slack are first presented in terms of model seconds after hour zero of the tidal cycle, as shown in plate 4 (length of tidal cycle is 4470 model sec), and hour zero is equivalent to the time of the moon's transit of the 74th meridian; and (b) the times of high- and low-water slack at all stations are presented in hours and minutes of the tidal cycle (length of cycle is 12 hr 25 min), and a time difference referred to the times of slack currents at the Narrows is shown for each station. The information given in this table should permit any desired time-correlation analyses of the data presented in this report.

Concluding Remarks

25. Hydraulic data presented in this report, consisting of tidal

elevations and current velocities, are considered to be quantitatively accurate with respect to the prototype for conditions of the tides being reproduced at the three control stations and the freshwater discharges being reproduced in the Hudson and Raritan Rivers. In making use of these data, it should be kept in mind that changes in tidal characteristics at one or more of the control points, winds and other meteorological factors, and changes in freshwater discharge could cause appreciable differences in both tidal elevations and current velocities from those presented in this report. The effects of such changed hydraulic conditions on the dispersion of wastes should also be kept in mind at all times.

26. The model has demonstrated its ability to reproduce the intrusion of salt water from the sea, the mixing in both vertical and plan of this seawater with fresh water from upland sources, and the velocity distribution in vertical and plan throughout the many channels which comprise the New York Harbor complex. For this reason, it is believed that the mass diffusion patterns developed during these model tests are quantitatively accurate with respect to the diffusion of conservative wastes in the prototype and under the tidal and freshwater discharge conditions employed during the model tests, subject to the exceptions noted in the following paragraph. It is again stressed that all concentrations presented herein apply only to the conservative dyes used as model tracers, and no attempt has been made to adjust the model test data to represent concentrations of the nonconservative wastes of the prototype.

27. The exceptions referred to above are attributable to the unnatural feedback, or return, of dye from the model water-supply system used for generation of tides at the Lower New York Bay and Long Island Sound model limits. After a dye test had progressed sufficiently to permit dispersion of dye to the Lower New York Bay model limit, the dye which entered the water-supply system during the ebb phase of the tidal currents became mixed with the water in the sump, and a portion of this dye returned to the Lower New York Bay and Long Island Sound model limits during the subsequent flood current phase, since the same sump was used for both tide generators. At the East River model limit, it is relatively simple to monitor the incoming dye and adjust the observed data accordingly, and this adjustment was carried out for all test data presented in this report. However, there

is no practicable method for adjusting for feedback at the Lower New York Bay model limit, and no attempt has been made to adjust dye concentration data presented in this report for feedback in Lower New York Bay. It is believed that a careful study of the dye distribution in Lower New York Bay as a function of time will suggest one or more methods for adjustment of the observed values if it becomes necessary to adjust the test data for this portion of the model.

Table 1
Description of Tests

Treatment Plants Tested	Plant Discharge mgd	Outfall Depth ft mlw	Type Release	Freshwater Inflow, cfs		Initial Dye Concentration ppb	Total Dye Released in Test liters
				Hudson	Raritan		
Tallmans Island	38	-9	Continuous	12,000	1770	10,000	40.21
Wards Island	223	-15	Continuous	12,000	1770	10,000	235.91
Owl's Head*	94	-52	Continuous	12,000	1770	100,000	91.80
Passaic Valley*	200	-52	Continuous	12,000	1770	100,000	211.27
Middlesex County	36	-34	Continuous	12,000	1770	100,000	37.95
Rahway River	100	-15	Continuous	12,000	1770	100,000	105.92
New Yonkers	53	-40	Continuous	12,000	1770	100,000	56.07
North River	220	-70	Continuous	12,000	1770	100,000	232.51
Jamaica Bay	53	-23	Continuous	12,000	1770	100,000	56.07
Newtown Creek	310	-62	Continuous	12,000	1770	100,000	328.23
Owl's Head	94	-52	Continuous	4,500	665	100,000	91.80
Passaic Valley	200	-52	Continuous	4,500	665	100,000	211.27
Owl's Head	94	-52	Continuous	24,000	3530	100,000	91.80
Passaic Valley	200	-52	Continuous	24,000	3530	100,000	211.27
Consolidated Edison	---	-20	1 cycle	12,000	1770	1,000,000	6.00
Owl's Head**	94	-52	Continuous	12,000	1770	100,000	91.80
Passaic Valley**	200	-52	Continuous	12,000	1770	100,000	211.27

Note: Outfall locations are shown in plate 1.

* No dikes in model.

** Dikes in model.

Table 2

Plant Effluent Concentrations in Parts per Billion
Tallmans Island and Wards Island Treatment Plants

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
EAST RIVER																
MILE 3													MILE 5			
1	1	0	8	8	-	1	-	8	0	0	9	9	-	1	-	9
3	1	1	16	16	-	7	-	21	0	0	17	20	-	9	-	27
5	4	4	22	24	-	12	-	33	0	0	26	26	-	13	-	34
7	6	6	27	32	-	16	-	42	1	1	30	31	-	16	-	39
10	8	8	43	40	22	20	53	50	3	3	46	37	19	18	50	43
15	10	10	52	51	-	22	-	57	4	4	58	45	-	19	-	47
20	12	11	61	58	25	22	67	59	6	6	64	50	22	19	43	48
25	19	12	65	63	-	22	-	59	5	6	66	54	-	19	-	49
30	14	13	68	66	23	22	67	60	7	7	67	56	19	19	45	50
40	12	13	68	68	19	22	63	60	6	7	69	57	20	19	48	50
50	13	13	68	68	22	22	53	60	8	7	67	58	16	19	60	51
EAST RIVER																
MILE 7													MILE 9			
1	1	1	11	11	-	1	-	4	3	3	12	12	-	1	-	12
3	4	4	19	20	-	10	-	10	6	7	58	31	-	6	-	19
5	7	7	29	28	-	16	-	17	10	10	33	39	-	12	-	23
7	9	9	33	34	-	20	-	24	13	12	106	46	-	17	-	26
10	12	11	45	42	25	23	42	33	14	14	55	55	22	21	57	33
15	12	13	56	52	-	25	-	37	14	15	63	66	-	23	-	39
20	13	13	63	58	28	25	32	39	15	15	68	75	25	23	19	43
25	13	13	64	63	-	25	-	40	15	15	77	80	-	23	-	47
30	14	13	66	66	21	25	36	41	17	15	181	83	22	23	54	48
40	13	13	68	68	27	25	43	42	15	15	88	86	39	23	34	49
50	14	13	66	68	22	25	50	42	14	15	60	88	23	33	39	50
EAST RIVER																
MILE 11													MILE 13			
1	3	3	8	6	-	1	-	0	7	7	9	9	-	1	-	0
3	8	8	20	14	-	8	-	2	14	13	56	53	-	6	-	1
5	12	12	16	19	-	12	-	3	16	16	64	62	-	8	-	2
7	14	14	22	23	-	16	-	4	17	17	69	66	-	9	-	3
10	14	15	26	26	20	19	6	6	20	19	63	68	10	9	4	4
15	15	16	32	28	-	20	-	7	18	20	70	68	-	9	-	5
20	17	16	28	30	24	20	4	7	21	20	34	68	10	10	5	5
25	15	16	25	30	-	20	-	7	23	20	66	69	-	10	-	6
30	16	16	30	31	19	20	8	7	19	20	56	69	9	10	6	6
40	15	16	34	31	24	20	12	7	20	20	73	70	9	10	6	6
50	15	16	32	32	17	20	7	7	14	20	70	70	8	10	5	6
EAST RIVER																
MILE 15													MILE 17			
1	14	14	11	11	-	1	-	0	16	16	3	3	-	1	-	0
3	22	20	25	34	-	8	-	1	28	18	6	5	-	6	-	1
5	21	22	34	31	-	10	-	1	19	19	7	6	-	7	-	1
7	49	22	56	36	-	10	-	2	24	19	6	7	-	7	-	2
10	21	22	54	42	10	10	2	2	18	20	7	8	7	7	3	2
15	21	22	43	45	-	10	-	3	20	20	10	8	-	8	-	2
20	23	22	29	45	9	10	3	3	21	20	10	9	8	8	3	3
25	28	22	45	45	-	10	-	3	27	20	9	9	-	8	-	3
30	15	22	33	46	12	10	3	3	17	20	9	9	8	8	3	3
40	23	22	47	46	9	10	4	3	22	20	11	9	8	8	4	3
50	18	22	54	47	10	10	2	3	19	20	9	9	8	8	-	3

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
EAST RIVER																
MILE 20								STATION 20B								
1	6	7	2	2	-	1	-	0	7	7	2	0	-	1	-	0
3	6	7	2	2	-	7	-	0	7	7	2	0	-	7	-	0
5	7	7	2	2	-	7	-	0	7	7	2	0	-	7	-	0
7	8	7	1	2	-	7	-	0	7	7	2	0	-	7	-	0
10	7	7	1	2	7	7	1	1	8	7	2	0	7	7	0	0
15	6	7	1	2	-	7	-	1	8	7	1	0	-	7	-	0
20	7	7	1	2	7	7	2	2	7	7	-	0	7	7	0	0
25	7	7	1	2	-	7	-	2	8	7	0	0	-	7	-	0
30	6	7	2	2	7	7	2	2	6	7	0	0	7	7	0	0
40	6	7	2	2	6	7	1	2	8	7	0	0	9	7	0	0
50	7	7	2	2	7	7	1	2	8	7	0	0	7	7	0	0
EAST RIVER																
STATION 21 C								HEADBAY								
1	6	7	0	0	-	1	-	0	6	6	-	0	-	1	-	0
3	6	7	1	0	-	7	-	0	6	6	0	0	-	6	-	0
5	7	7	1	0	-	7	-	0	6	6	0	0	-	6	-	0
7	7	7	1	0	-	7	-	0	6	6	0	0	-	6	-	0
10	7	7	1	0	7	7	1	0	6	6	0	0	7	6	0	0
15	7	7	1	0	-	7	-	0	8	8	0	0	-	8	-	0
20	7	7	1	0	6	7	2	0	5	6	0	0	6	6	0	0
25	8	7	2	0	-	7	-	0	7	6	0	0	-	8	-	0
30	6	7	0	0	7	7	2	0	7	8	0	0	5	6	0	0
40	6	7	1	0	6	7	1	0	5	6	0	0	5	6	0	0
50	7	7	1	0	6	7	2	0	6	6	0	0	5	6	0	0
RIKERS ISLAND BACK CHANNEL																
MILE 12								STATION 12A								
1	4	4	11	11	-	4	-	2	5	5	7	7	-	5	-	7
3	11	10	35	30	-	10	-	10	13	12	21	22	-	12	-	22
5	14	13	39	40	-	13	-	15	16	15	34	33	-	15	-	33
7	14	16	48	47	-	16	-	17	16	17	48	40	-	17	-	40
10	17	16	54	55	22	16	32	20	21	19	35	47	19	19	43	47
15	16	16	66	61	-	16	-	22	19	19	54	52	-	16	-	52
20	20	18	60	63	22	16	24	23	20	19	56	54	16	19	48	54
25	15	16	60	63	-	16	-	23	21	19	51	54	-	19	-	54
30	16	16	63	64	16	16	21	23	19	19	46	54	19	19	50	54
40	17	16	60	64	21	16	25	23	22	19	37	54	17	19	60	54
50	17	18	68	65	15	16	21	23	19	19	57	55	20	19	50	55
RIKERS ISLAND BACK CHANNEL																
MILE 13								FLUSHING BAY								
1	5	5	12	12	-	5	-	0	7	7	9	9	-	7	-	9
3	12	12	35	33	-	12	-	1	14	12	16	26	-	12	-	26
5	15	15	42	42	-	15	-	3	15	14	35	34	-	14	-	34
7	16	17	48	47	-	17	-	4	15	18	38	38	-	16	-	38
10	19	19	56	52	23	19	6	6	19	17	41	41	19	17	33	41
15	16	19	68	55	-	19	-	10	17	16	55	42	-	16	-	42
20	24	19	48	56	28	19	14	13	20	16	42	43	17	16	46	43
25	19	19	60	56	-	19	-	16	23	19	45	44	-	19	-	44
30	20	19	51	56	14	19	17	16	17	19	39	44	17	19	42	44
40	20	19	54	56	20	19	21	21	22	19	46	45	17	19	45	45
50	18	19	57	56	16	19	24	23	17	19	50	45	20	19	42	45

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
HUDSON RIVER																
MILE -15								MILE -12								
1	4	4	0	0	-	0	-	0	4	4	0	0	-	1	-	0
3	4	4	0	0	-	2	-	0	5	5	0	0	-	2	-	0
5	4	4	0	0	-	3	-	0	5	5	0	0	-	2	-	1
7	4	5	0	0	-	3	-	0	5	5	0	0	-	3	-	4
10	4	5	0	0	4	4	0	0	4	5	0	0	4	4	7	7
15	4	5	1	1	-	5	-	2	5	5	0	0	-	6	-	10
20	4	6	2	2	4	5	4	4	5	6	1	1	6	7	16	13
25	4	6	4	3	-	5	-	5	5	6	3	3	-	8	-	14
30	5	6	4	4	6	6	7	7	6	6	5	5	9	8	16	15
40	6	6	7	7	6	6	9	9	6	6	7	8	8	9	17	16
50	6	6	10	10	6	6	12	12	6	6	11	11	9	9	17	17
HUDSON RIVER																
MILE 3				MILE 6												
1	4	4	0	0	-	0	-	0	3	3	0	0	-	0	-	0
3	4	4	2	3	-	0	-	1	5	4	4	3	-	0	-	0
5	4	5	7	6	-	0	-	3	3	5	5	6	-	0	-	1
7	6	6	9	9	-	0	-	5	6	5	9	9	-	0	-	2
10	7	7	14	13	0	0	7	7	5	6	12	13	0	0	3	4
15	8	8	15	18	-	0	-	10	7	8	19	17	-	0	-	7
20	10	9	23	21	1	1	14	13	7	9	20	20	0	0	9	9
25	9	10	20	24	-	2	-	14	9	9	21	22	-	0	-	11
30	10	10	24	25	2	2	15	15	9	10	22	23	0	0	12	12
40	10	11	29	27	2	2	16	16	11	10	25	24	0	0	14	13
50	12	11	29	28	1	2	16	16	11	10	26	25	0	0	14	14
HUDSON RIVER																
MILE 9				MILE 12												
1	3	3	0	0	-	0	-	0	2	1	0	0	-	0	-	0
3	3	4	0	0	-	0	-	0	2	2	0	0	-	0	-	0
5	4	5	2	2	-	0	-	0	3	3	2	2	-	0	-	0
7	6	6	5	5	-	0	-	0	4	4	5	6	-	0	-	0
10	8	7	10	9	0	0	0	1	5	5	9	9	0	0	0	0
15	7	8	15	13	-	0	-	3	7	7	16	12	-	0	-	0
20	10	9	16	16	0	0	5	5	8	8	12	15	0	0	0	0
25	10	10	15	18	-	0	-	7	9	9	17	16	-	0	-	1
30	11	10	22	19	0	0	8	8	10	10	16	17	0	0	2	2
40	12	11	20	20	0	0	11	10	10	10	17	18	0	0	3	3
50	10	11	21	20	0	0	9	10	9	10	21	18	0	0	5	5
HUDSON RIVER																
MILE 15				MILE 18												
1	1	0	0	0	-	0	-	0	1	0	0	0	-	0	-	0
3	0	0	0	0	-	0	-	0	2	0	0	0	-	0	-	0
5	1	0	0	0	-	0	-	0	1	0	0	0	-	0	-	0
7	1	0	0	1	-	0	-	0	0	0	0	0	-	0	-	0
10	1	1	3	3	0	0	0	0	1	1	0	1	0	0	0	0
15	1	2	6	6	-	0	-	0	3	2	2	2	-	0	-	0
20	3	3	10	9	0	0	0	0	3	2	3	3	0	0	0	0
25	3	3	11	11	-	0	-	0	3	2	2	3	-	0	-	0
30	2	4	10	13	0	0	0	1	1	2	3	4	0	0	0	0
40	4	4	15	15	0	0	2	2	2	3	5	5	0	0	0	0
50	4	4	16	16	0	0	2	2	2	3	7	7	0	0	0	0

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
HUDSON RIVER																
MILE 21								MILE 22								
1	1	0	0	0	-	0	-	0	1	0	0	0	-	0	-	0
3	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
5	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
7	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
30	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
HARLEM RIVER																
MILE 3								MILE 6								
1	0	0	0	0	-	1	-	2	0	0	0	0	-	1	-	2
3	0	0	0	0	-	6	-	9	0	0	0	0	-	8	-	5
5	0	0	0	0	-	10	-	19	0	0	0	0	-	8	-	10
7	0	0	0	1	-	14	-	27	0	0	0	0	-	9	-	15
10	0	0	2	2	18	17	34	34	0	0	0	0	10	10	25	25
15	0	0	2	3	-	17	-	39	0	0	0	0	-	11	-	35
20	0	0	4	4	16	17	59	40	0	0	0	1	12	12	42	39
25	0	0	4	4	-	18	-	40	0	0	2	2	-	13	-	40
30	0	0	5	5	19	18	42	40	0	0	2	2	14	13	39	40
40	0	0	5	5	15	18	47	40	0	0	3	3	12	14	38	40
50	0	0	6	6	20	18	33	40	0	0	3	3	14	14	39	40
UPPER BAY																
STATION 5								STATION 1A								
1	1	0	3	3	-	0	-	3	1	1	3	3	-	0	-	2
3	1	1	7	7	-	1	-	8	2	3	9	8	-	1	-	5
5	3	3	13	11	-	3	-	14	2	4	16	15	-	2	-	10
7	5	4	16	16	-	5	-	21	4	5	17	20	-	3	-	15
10	6	6	21	22	7	6	31	30	5	6	26	29	7	4	30	21
15	8	7	31	31	-	8	-	40	9	6	40	40	-	6	-	29
20	10	8	41	39	10	10	52	48	9	9	51	48	6	7	28	35
25	9	9	43	45	-	11	-	52	11	10	52	53	-	8	-	39
30	10	10	48	48	12	11	57	56	11	11	56	56	9	9	46	41
40	9	10	52	52	11	12	54	58	11	11	56	59	9	9	42	43
50	11	10	54	53	11	12	54	58	11	11	60	60	9	9	43	44
UPPER BAY																
STATION 13								STATION 13A								
1	2	2	1	1	-	2	-	2	3	2	1	1	-	2	-	2
3	3	3	4	4	-	4	-	6	2	3	3	3	-	4	-	9
5	3	4	8	7	-	5	-	12	2	4	6	6	-	6	-	18
7	5	5	18	10	-	6	-	20	4	5	14	9	-	7	-	25
10	6	6	13	13	7	7	30	28	6	6	12	13	6	8	35	33
15	7	7	17	19	-	8	-	38	7	7	20	18	-	10	-	43
20	8	8	24	25	10	10	50	46	8	8	21	22	11	11	54	50
25	9	9	26	31	-	10	-	51	8	9	20	26	-	11	-	55
30	8	9	35	36	11	11	52	54	9	9	29	29	12	12	59	58
40	9	9	42	43	11	11	57	57	10	10	37	36	12	12	63	60
50	10	10	46	45	11	11	59	57	10	10	43	42	13	12	59	60

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	STATION 13B								UPPER BAY				STATION 14A			
1	3	2	1	1	-	2	-	2	0	0	9	7	-	0	-	7
3	3	3	4	5	-	3	-	12	1	1	13	13	-	2	-	13
5	3	4	7	9	-	5	-	23	3	3	21	19	-	3	-	19
7	4	5	13	13	-	6	-	31	3	4	24	26	-	4	-	26
10	5	6	19	19	6	7	43	38	6	6	35	35	5	6	35	35
15	7	7	20	27	-	8	-	45	8	7	46	46	-	8	-	46
20	8	8	34	33	10	9	46	49	9	9	56	53	13	11	60	53
25	7	8	25	37	-	10	-	51	10	9	56	58	-	13	-	58
30	10	9	41	40	10	11	48	53	11	10	60	60	13	15	60	60
40	9	9	40	42	11	11	54	55	11	10	64	62	10	17	56	62
50	9	9	43	43	11	11	60	56	10	10	61	62	19	17	56	62
	STATION 15A								UPPER BAY				STATION 16			
1	1	1	3	3	-	0	-	0	1	1	2	2	-	0	-	2
3	1	2	9	10	-	0	-	4	1	2	9	9	-	0	-	9
5	3	3	18	18	-	0	-	10	3	3	17	17	-	1	-	17
7	4	4	21	25	-	0	-	15	4	5	24	24	-	2	-	22
10	6	5	33	33	1	1	22	22	7	6	30	31	3	3	27	29
15	8	7	43	43	-	2	-	30	9	8	38	41	-	4	-	37
20	8	8	51	49	3	3	36	36	9	10	49	48	5	5	44	43
25	9	9	55	54	-	4	-	40	11	11	54	52	-	6	-	47
30	12	10	59	57	5	4	43	42	11	11	57	55	6	6	48	50
40	10	10	61	60	3	4	44	44	11	11	60	57	7	8	52	51
50	10	10	61	61	5	5	46	45	10	11	52	58	5	6	46	52
	STATION 17								UPPER BAY				STATION 18			
1	1	0	3	3	-	1	-	3	1	1	2	2	-	1	-	2
3	1	1	11	11	-	5	-	13	3	2	5	6	-	2	-	7
5	2	3	22	19	-	9	-	25	3	4	14	11	-	4	-	15
7	3	4	24	26	-	12	-	34	4	5	8	16	-	5	-	22
10	6	6	34	34	15	14	66	44	6	6	20	23	5	6	30	30
15	8	8	44	43	-	16	-	55	8	7	27	32	-	7	-	41
20	9	9	52	50	17	17	74	64	8	8	35	39	8	8	52	49
25	10	10	55	55	-	17	-	70	9	9	39	43	-	9	-	54
30	11	11	59	58	18	18	77	73	10	9	45	46	10	9	56	57
40	10	11	63	60	16	18	69	74	10	10	47	49	10	10	55	59
50	11	11	63	61	19	19	55	74	10	10	52	50	9	10	54	60
	STATION 19								UPPER BAY				STATION 20			
1	1	1	3	3	-	1	-	3	3	3	1	1	-	0	-	1
3	3	2	7	7	-	2	-	7	4	4	4	5	-	1	-	7
5	3	4	16	16	-	4	-	16	4	5	7	9	-	2	-	13
7	5	5	20	25	-	5	-	25	4	5	13	14	-	3	-	20
10	7	7	36	34	13	7	43	34	6	6	20	21	4	4	30	28
15	9	9	47	45	-	9	-	45	7	7	26	30	-	6	-	40
20	10	10	51	53	11	10	60	53	10	8	37	37	8	8	51	48
25	11	11	51	58	-	11	-	58	9	9	38	42	-	9	-	53
30	12	12	61	61	12	12	61	61	11	9	41	45	10	9	57	57
40	12	12	61	63	11	12	65	63	10	10	47	48	9	10	58	59
50	12	12	64	64	13	12	61	64	12	10	51	50	9	10	61	60

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
	UPPER BAY STATION 22								LOWER BAY STATION 8A							
1	1	1	2	2	-	1	-	2	1	1	2	2	-	0	-	1
3	2	2	5	5	-	2	-	6	2	2	4	4	-	1	-	3
5	2	3	11	10	-	3	-	13	3	3	7	7	-	2	-	5
7	4	4	14	15	-	4	-	22	3	4	11	10	-	2	-	6
10	5	6	17	22	5	6	35	32	4	5	15	13	3	3	11	9
15	9	8	30	32	-	8	-	42	6	6	22	20	-	4	-	13
20	9	9	38	39	10	9	60	50	8	7	20	26	5	5	18	18
25	10	10	42	43	-	10	-	55	8	8	34	32	-	6	-	22
30	10	10	46	46	10	10	61	58	8	9	36	37	8	6	26	25
40	11	11	51	49	11	11	63	60	9	9	42	43	7	7	26	29
50	11	11	54	51	11	11	56	60	10	10	46	45	7	7	29	30

Cycle	MILE 9				LOWER BAY				STATION 9A							
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.				
1	5	4	2	1	-	0	-	1	3	3	2	1	-	0	-	1
3	5	4	2	2	-	2	-	3	3	3	2	2	-	2	-	4
5	4	4	2	2	-	3	-	6	3	3	4	4	-	3	-	6
7	4	4	3	3	-	3	-	10	3	3	6	6	-	4	-	9
10	4	5	3	3	4	4	17	17	3	4	9	9	4	4	15	14
15	4	5	5	5	-	5	-	28	4	4	14	14	-	5	-	23
20	5	5	8	8	7	7	42	36	5	5	20	20	7	6	33	32
25	5	5	11	11	-	8	-	41	6	6	26	25	-	7	-	37
30	6	6	14	14	9	9	47	45	7	8	30	30	9	8	39	40
40	6	6	17	20	10	10	50	49	7	7	35	36	9	9	44	42
50	7	7	22	21	10	10	51	50	8	8	40	38	8	6	43	43

Cycle	LOWER BAY STATION 10A				KILL VAN KULL MILE 3											
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.								
1	4	4	2	1	-	4	-	0	-	0	-	1	-	0	-	1
3	4	4	3	2	-	4	-	1	-	1	-	3	-	0	-	2
5	4	4	2	2	-	4	-	2	3	3	8	7	-	0	-	3
7	4	4	3	3	-	4	-	2	5	5	10	11	-	2	-	5
10	4	4	3	4	4	4	3	3	7	7	16	15	4	4	8	8
15	4	5	5	6	-	5	-	6	9	9	20	19	-	6	-	12
20	4	5	9	9	5	5	9	9	10	10	24	23	5	7	11	16
25	5	5	11	11	-	5	-	11	10	11	25	25	-	8	-	18
30	5	5	14	14	5	5	14	15	11	11	28	27	8	8	18	19
40	6	6	16	18	6	6	27	22	11	11	28	28	8	8	22	21
50	7	6	20	20	7	6	34	28	11	11	30	29	8	8	21	21

Cycle	STATION L-2				LOWER BAY				STATION L-7							
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.				
4	2	2	2	2	-	0	-	1	1	1	3	1	-	0	-	0
6	2	2	3	3	-	0	-	2	2	1	2	1	-	0	-	0
8	2	3	3	5	-	0	-	3	1	1	2	1	-	0	-	0
12	1	4	9	9	1	1	5	5	2	2	2	2	0	0	1	1
14	4	4	11	11	-	2	-	7	2	2	2	2	-	0	-	1
22	6	8	20	19	3	3	14	13	1	2	2	4	0	0	2	2
32	7	7	27	28	5	5	16	20	1	3	5	6	1	0	3	3
42	8	8	35	35	5	5	27	26	1	3	10	9	0	0	5	5
49	8	8	40	38	6	6	27	28	3	3	14	12	0	0	9	7

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY																
STATION L-10								STATION L-12								
4	2	2	1	1	-	0	-	0	4	3	1	1	-	1	-	0
6	2	2	1	1	-	0	-	0	3	3	2	2	-	2	-	0
8	2	2	2	2	-	0	-	0	3	3	5	3	-	2	-	1
12	3	3	3	2	1	0	1	1	3	4	6	6	3	3	3	3
14	1	3	2	3	-	0	-	1	3	4	6	8	-	3	-	4
22	3	4	9	5	0	0	3	3	4	5	15	15	2	4	9	10
32	1	4	8	10	0	0	5	6	7	5	24	23	5	4	20	17
42	4	5	19	19	1	0	12	12	6	6	27	27	4	5	17	21
49	5	5	22	22	1	0	14	14	6	6	26	28	5	5	22	22
LOWER BAY																
STATION L-14								STATION L-17								
4	3	3	2	2	-	2	-	0	3	3	1	1	-	2	-	1
6	3	3	2	3	-	2	-	0	3	3	3	2	-	2	-	2
8	3	3	5	4	-	3	-	1	3	3	2	3	-	2	-	3
12	3	4	12	8	3	3	4	4	3	4	3	5	3	3	4	5
14	4	4	14	10	-	3	-	5	3	4	7	6	-	3	-	6
22	4	4	10	16	2	4	8	12	4	4	12	12	4	4	11	12
32	4	5	19	21	5	4	22	20	5	5	18	18	6	5	18	18
42	8	5	34	25	5	4	26	25	7	6	26	24	6	6	22	24
49	5	5	27	26	3	4	20	26	7	7	29	26	7	7	25	26
LOWER BAY																
STATION L-23								STATION L-26								
4	3	3	1	1	-	3	-	1	2	2	1	1	-	2	-	1
6	3	3	2	1	-	3	-	1	3	2	2	1	-	2	-	1
8	3	3	2	2	-	3	-	2	2	3	2	2	-	3	-	2
12	3	3	3	4	3	3	3	4	3	3	3	4	2	3	3	4
14	3	3	5	5	-	3	-	5	3	3	4	5	-	3	-	5
22	4	4	9	11	-	4	9	11	4	4	8	10	4	4	10	10
32	5	5	18	17	-	5	17	17	4	5	16	15	4	5	16	15
42	5	6	21	20	6	6	20	20	6	5	17	19	5	5	19	19
49	6	6	26	22	6	6	21	22	6	6	21	20	6	6	20	20
LOWER BAY																
STATION L-19								STATION L-20								
4	3	3	2	1	-	3	-	1	2	2	2	1	-	0	-	1
6	3	3	2	2	-	3	-	2	2	2	2	2	-	1	-	2
8	3	3	3	3	-	3	-	3	3	3	3	3	-	2	-	3
12	3	4	3	5	3	4	7	5	3	3	5	5	2	2	4	5
14	3	4	5	7	-	4	-	7	3	3	5	6	-	3	-	6
22	4	4	14	12	4	4	10	12	4	4	10	11	4	4	11	11
32	5	5	16	19	5	5	17	19	4	5	16	17	5	5	19	17
42	6	5	22	23	6	5	21	23	6	5	21	22	6	5	22	22
49	6	5	29	24	6	5	23	24	5	5	24	23	6	6	22	23

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water						
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is				
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.			
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.			
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"> LOWER BAY STATION L-21 </td> <td style="width: 50%; text-align: center;"> JAMAICA BAY STATION J-0 </td> </tr> </table>																	LOWER BAY STATION L-21	JAMAICA BAY STATION J-0	
LOWER BAY STATION L-21	JAMAICA BAY STATION J-0																		
4	3	3	1	1	-	1	-	1	5	5	3	2	-	0	-	1			
6	3	3	2	2	-	2	-	2	5	5	2	2	-	2	-	2			
8	3	3	3	3	-	2	-	3	4	5	4	3	-	2	-	3			
12	3	4	3	4	3	3	3	4	5	6	5	5	4	4	5	5			
14	3	4	4	5	-	3	-	5	5	6	5	6	-	4	-	6			
22	4	5	10	11	4	4	10	11	6	7	11	10	4	6	9	10			
32	5	5	17	17	5	5	16	17	7	7	15	16	7	6	14	14			
42	6	6	21	21	5	6	21	21	7	7	20	20	7	7	17	16			
49	6	6	24	22	5	6	20	22	9	7	24	23	7	7	16	17			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> STATION J-1 </td> <td style="width: 33%; text-align: center;"> JAMAICA BAY </td> <td style="width: 33%; text-align: center;"> STATION J-2 </td> </tr> </table>																	STATION J-1	JAMAICA BAY	STATION J-2
STATION J-1	JAMAICA BAY	STATION J-2																	
4	5	5	2	2	-	0	-	0	5	5	2	2	-	0	-	0			
6	5	5	4	3	-	3	-	1	5	6	5	3	-	3	-	0			
8	5	5	3	3	-	4	-	2	5	6	4	4	-	4	-	1			
12	5	6	5	5	5	5	3	3	5	7	6	6	5	5	3	2			
14	6	6	6	6	-	5	-	3	5	7	7	7	-	5	-	3			
22	6	7	12	11	5	5	6	6	7	7	12	12	5	5	4	4			
32	7	8	17	18	6	5	9	10	7	7	17	16	5	5	7	7			
42	9	8	22	22	5	5	14	13	8	7	22	22	5	5	11	11			
49	9	8	26	25	5	5	16	15	8	7	24	24	8	5	13	13			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> STATION J-3 </td> <td style="width: 33%; text-align: center;"> JAMAICA BAY </td> <td style="width: 33%; text-align: center;"> STATION 11 </td> </tr> </table>																	STATION J-3	JAMAICA BAY	STATION 11
STATION J-3	JAMAICA BAY	STATION 11																	
4	6	5	7	1	-	0	-	0	4	4	2	1	-	0	-	0			
6	5	6	2	2	-	3	-	0	4	5	2	1	-	3	-	0			
8	6	6	3	2	-	4	-	1	5	5	2	2	-	4	-	1			
12	5	7	3	3	5	5	2	2	5	5	3	2	5	5	2	2			
14	5	7	4	4	-	5	-	2	5	5	2	3	-	5	-	2			
22	7	7	7	7	5	5	4	4	5	5	4	4	4	5	3	3			
32	7	7	7	11	5	5	6	6	5	6	5	6	5	5	4	5			
42	7	7	15	15	6	5	7	8	6	6	7	7	5	5	5	6			
49	7	7	16	17	6	5	8	8	6	6	9	8	5	5	7	6			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> MILE 6 </td> <td style="width: 33%; text-align: center;"> ARTHUR KILL </td> <td style="width: 33%; text-align: center;"> MILE 9 </td> </tr> </table>																	MILE 6	ARTHUR KILL	MILE 9
MILE 6	ARTHUR KILL	MILE 9																	
4	1	0	3	2	-	0	-	2	1	1	1	1	-	1	-	0			
6	1	1	3	3	-	1	-	3	1	1	2	1	-	1	-	1			
8	1	1	4	5	-	1	-	5	1	1	1	1	-	1	-	1			
12	1	2	5	8	2	2	10	8	1	1	1	2	2	2	5	2			
14	3	2	13	10	-	2	-	10	1	1	2	2	-	2	-	3			
22	3	5	16	18	4	5	20	16	1	1	2	4	3	3	14	6			
32	7	7	31	28	7	7	30	28	1	1	9	7	2	3	9	12			
42	8	8	36	35	5	8	24	35	1	1	8	11	1	3	7	17			
49	8	8	42	39	8	8	36	39	1	1	13	12	3	3	19	18			

Table 2 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
ARTHUR KILL																
MILE 12								MILE 15								
4	1	0	0	0	-	0	-	0	1	0	1	0	-	0	-	0
6	0	0	1	1	-	0	-	0	1	0	1	1	-	0	-	0
8	0	0	1	1	-	0	-	0	1	0	1	1	-	0	-	0
12	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1
14	1	0	1	1	-	0	-	1	1	0	1	1	-	0	-	1
22	0	0	2	2	1	0	3	2	1	0	1	1	0	0	1	1
32	0	0	3	4	0	0	4	4	1	0	2	3	0	0	2	3
42	0	0	7	7	0	0	5	7	1	0	10	6	0	0	5	6
49	1	0	9	9	1	0	9	9	1	0	13	10	1	0	8	10
ARTHUR KILL																
MILE 18								NEWARK BAY								
4	0	0	0	0	-	0	-	0	1	1	0	0	-	0	-	0
6	1	0	1	0	-	0	-	0	4	2	1	1	-	0	-	0
8	0	0	0	0	-	0	-	0	2	3	3	3	-	0	-	0
12	1	0	1	1	1	0	1	1	5	4	9	6	1	1	0	0
14	1	0	1	1	-	0	-	1	5	5	9	8	-	2	-	0
22	0	0	1	2	0	0	2	2	6	6	15	12	2	3	3	3
32	0	0	3	5	0	0	4	5	7	7	13	14	5	4	8	8
42	0	0	9	9	0	0	8	9	8	8	17	15	5	5	12	12
49	1	0	13	12	0	0	11	12	8	8	13	15	5	5	14	13
NEWARK BAY																
MILE 4								HACKENSACK RIVER								
4	1	1	0	0	-	0	-	0	1	1	0	0	-	0	-	0
6	1	1	0	0	-	0	-	0	2	2	1	1	-	0	-	0
8	1	1	0	1	-	0	-	0	3	2	2	2	-	0	-	0
12	2	2	2	2	1	1	0	0	3	3	4	5	1	1	1	1
14	2	3	3	3	-	1	-	0	2	4	6	6	-	2	-	1
22	5	4	10	6	1	2	2	2	4	5	11	11	3	3	3	3
32	5	5	9	10	3	3	6	6	6	7	20	19	4	4	7	7
42	6	6	9	12	4	4	8	8	7	7	26	26	4	4	10	10
49	6	6	13	13	4	4	8	9	8	7	31	30	4	4	11	11
HACKENSACK RIVER																
MILE 6								MILE 10								
4	1	1	0	0	-	0	-	0	1	1	0	0	-	0	-	0
6	2	1	2	1	-	0	-	0	1	1	2	1	-	0	-	0
8	2	2	1	1	-	0	-	0	2	2	2	1	-	0	-	0
12	2	3	2	2	1	1	2	1	2	2	2	2	1	1	1	1
14	2	3	3	3	-	1	-	1	2	2	2	2	-	1	-	1
22	3	5	6	7	2	2	2	2	1	3	2	3	2	2	2	2
32	5	5	15	14	3	3	4	4	3	3	5	5	3	3	2	3
42	7	6	18	19	3	3	7	6	3	4	7	7	3	3	4	4
49	7	6	21	20	4	3	7	7	4	4	10	9	3	3	5	5

Table 2 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water				
	Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		Tallmans Is		Wards Is		
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	
Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HACKENSACK RIVER																	
MILE 15								PASSAIC RIVER									
4	1	1	1	0	-	0	-	0	1	1	1	1	-	0	-	0	
6	1	1	2	1	-	0	-	0	2	2	2	2	-	0	-	0	
8	1	1	2	1	-	0	-	0	2	2	3	3	-	0	-	1	
12	1	1	2	1	1	1	1	1	2	3	3	4	1	1	2	2	
14	1	1	2	2	-	1	-	1	2	3	4	5	-	1	-	2	
22	2	2	2	2	1	1	2	1	3	4	9	9	2	2	3	3	
32	1	2	3	3	1	1	1	2	4	4	13	15	3	3	6	6	
42	1	2	3	3	2	2	3	2	5	5	20	19	3	3	9	9	
49	2	2	4	3	1	2	1	2	6	5	23	22	3	3	11	11	
PASSAIC RIVER																	
MILE 6				MILE 10					MILE 15								
4	2	2	1	1	-	0	-	0	1	1	2	1	-	0	-	0	
6	2	2	1	1	-	1	-	0	1	1	2	1	-	0	-	0	
8	2	2	2	1	-	2	-	0	1	1	2	1	-	0	-	0	
12	2	3	2	2	2	2	1	1	1	2	2	1	1	1	1	1	
14	2	3	2	2	-	2	-	1	2	2	2	2	1	1	-	1	
22	2	3	3	3	1	2	1	1	2	2	2	2	1	1	1	1	
32	2	3	5	5	1	2	2	2	2	2	2	3	1	1	1	1	
42	4	3	6	8	2	2	3	3	2	2	3	3	1	1	2	2	
49	4	3	11	11	2	2	4	4	2	2	4	4	1	1	1	2	
PASSAIC RIVER																	
MILE 15				RARITAN CHANNEL													
MILE 25				MILE 30													
4	0	0	2	1	-	0	-	0	0	0	1	1	-	0	-	0	
6	0	0	2	1	-	0	-	0	0	0	1	1	-	0	-	0	
8	1	1	1	1	-	0	-	0	1	0	1	1	-	0	-	0	
12	1	1	1	1	0	0	2	1	0	0	1	1	0	0	0	C	
14	1	1	1	1	-	0	-	1	0	0	1	1	-	0	-	1	
22	1	1	3	2	1	1	1	1	0	0	1	1	0	0	2	1	
32	1	1	1	2	1	1	1	1	0	0	3	4	0	0	2	4	
42	1	1	1	2	1	1	1	1	0	0	9	9	1	0	9	9	
49	1	1	1	2	1	1	1	1	0	0	11	11	0	0	11	11	
RARITAN CHANNEL																	
MILE 35				MILE 40									MILE 45				
4	1	1	1	1	-	0	-	0	4	4	2	2	-	0	-	0	
6	2	2	2	2	-	0	-	0	4	4	4	4	-	2	-	1	
8	1	2	2	2	-	0	-	0	4	4	9	6	-	2	-	3	
12	1	2	3	3	1	0	1	1	5	5	11	10	4	4	7	7	
14	1	2	2	3	-	0	-	1	5	5	12	12	-	4	-	9	
22	0	2	2	5	1	0	3	3	7	6	22	20	6	5	18	18	
32	0	2	2	7	0	0	3	5	7	7	24	28	5	6	18	27	
42	1	3	12	10	0	0	7	7	8	8	30	33	6	6	33	33	
49	3	3	18	11	0	0	9	8	9	9	35	34	7	7	36	34	

Table 3
Plant Effluent Concentrations in Parts per Billion
 Middlesex County and Rahway River Treatment Plants

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Obs.	Cor.	Effl. Conc.	Conc.	Obs.	Cor.	Effl. Conc.	Conc.	Obs.	Cor.	Effl. Conc.	Conc.	Obs.	Cor.	Effl. Conc.	Conc.
LOWER BAY																
STATION L-2								STATION L-7								
4	0	0	0	0	-	0	-	0	-	0	-	0	-	0	-	0
6	1	1	0	0	0	0	0	0	3	2	0	0	1	2	0	0
8	1	1	2	2	-	0	-	2	511	40	0	0	14	40	0	0
11	4	2	3	3	1	1	1	3	126	190	0	0	174	190	0	0
18	69	3	10	8	-	2	-	8	346	370	0	1	98	370	1	1
21	4	5	46	16	9	4	12	16	456	430	34	19	425	430	35	19
26	9	7	46	28	-	5	-	28	362	430	43	48	448	430	49	48
31	8	9	44	41	7	7	51	41	503	430	93	84	905	430	201	84
36	9	11	46	55	-	8	-	55	354	431	114	123	417	431	190	123
41	14	13	67	68	9	10	53	68	401	432	137	158	417	432	193	158
46	18	15	74	77	-	12	-	77	432	432	135	180	448	432	185	180
49	17	17	88	80	13	13	81	80	472	435	165	186	425	435	190	188
LOWER BAY																
STATION L-10								STATION L-12								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
8	0	0	1	0	-	0	-	0	0	1	0	-	0	-	0	0
11	17	12	0	0	0	12	0	0	0	0	0	0	0	0	1	1
16	119	145	1	1	-	145	-	1	0	0	1	1	-	0	-	1
21	228	195	24	18	182	195	9	18	13	13	4	4	4	3	4	2
26	252	230	47	45	-	230	-	45	44	42	10	11	-	18	-	5
31	276	255	104	81	338	255	108	81	82	79	22	21	37	41	6	9
38	228	270	125	120	-	270	-	120	108	108	39	35	-	65	-	16
41	268	285	159	156	300	285	188	158	132	131	50	50	88	86	27	20
46	315	300	184	180	-	300	-	180	121	144	62	62	-	104	-	74
49	330	310	186	187	315	310	191	187	145	150	104	72	114	114	41	39
LOWER BAY																
STATION L-14								STATION L-17								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
6	0	0	0	0	0	0	1	1	1	0	0	1	2	0	1	1
8	1	0	1	1	-	0	-	1	2	0	2	2	-	0	-	2
11	0	0	1	1	0	0	2	1	2	0	3	3	9	0	2	3
16	1	1	2	2	-	0	-	3	1	1	5	6	-	1	-	6
21	25	25	7	7	7	8	4	5	9	9	14	12	6	9	14	12
26	98	61	22	18	-	33	-	10	24	25	19	20	-	25	-	20
31	116	86	38	32	60	60	13	17	42	40	29	30	36	40	28	30
36	80	104	43	50	-	80	-	26	75	51	46	40	-	51	-	40
41	111	115	62	66	103	100	47	40	57	55	54	56	53	55	53	50
46	114	119	55	80	-	112	-	54	49	56	55	56	-	56	-	56
49	150	121	88	86	121	120	62	62	59	57	61	59	51	57	51	59
LOWER BAY																
STATION L-19								STATION L-20								
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	-	0	-	0	1	0	0	0	-	0	-	0
21	9	9	2	2	2	2	0	2	0	4	5	3	16	13	3	3
28	24	22	6	5	-	15	-	5	25	17	7	7	-	32	-	7
31	27	35	6	8	29	32	7	8	29	35	10	11	43	49	6	11
38	45	45	11	9	-	48	-	9	47	47	11	13	-	60	-	13
41	48	50	11	11	84	59	12	11	53	54	18	16	67	64	16	16
46	51	51	13	12	-	83	-	12	46	54	31	18	-	65	-	18
49	48	51	13	13	61	84	12	13	53	54	19	19	64	65	20	19

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
	STATION L-21								LOWER BAY				STATION L-23			
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
21	3	4	3	3	4	4	1	3	10	9	5	3	3	9	2	3
26	15	16	5	8	-	16	-	8	25	25	7	7	-	25	-	7
31	33	31	7	11	39	31	11	11	43	39	11	11	35	39	9	11
36	46	44	15	14	-	44	-	14	51	49	15	14	-	49	-	14
41	50	52	18	16	57	52	15	16	52	53	18	16	57	53	16	16
46	50	53	20	18	-	53	-	18	42	54	19	18	-	54	-	18
49	51	54	20	19	50	54	16	19	44	54	19	19	51	54	20	19

Cycle	STATION L-26				LOWER BAY (CONT'D)			
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
11	0	0	0	0	0	0	0	0
16	0	0	0	0	-	0	-	0
21	5	5	2	2	3	3	2	2
26	18	17	6	5	-	14	-	5
31	29	28	5	7	17	24	6	7
36	37	36	9	10	-	32	-	10
41	39	39	13	12	37	36	11	12
46	40	40	18	14	-	37	-	14
49	41	41	16	15	37	37	10	15

Cycle	STATION 8A				LOWER BAY				MILE 9-A							
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.				
7	0	0	3	4	0	0	4	4	0	0	5	5	2	0	26	26
10	0	0	16	11	1	0	14	10	9	1	15	13	4	0	43	40
15	0	0	20	18	-	0	-	16	5	2	48	24	-	1	-	53
20	1	2	26	24	1	2	21	20	1	3	35	35	1	2	61	60
25	5	5	31	30	-	5	-	24	2	5	52	47	-	3	-	66
30	8	9	34	36	13	9	23	27	4	6	49	59	2	4	73	71
35	16	13	35	43	-	13	-	30	7	8	55	70	-	6	-	75
40	18	18	59	50	26	18	38	33	12	10	71	79	7	7	186	78
45	24	23	68	58	-	23	-	36	12	12	95	87	-	9	-	80
50	28	28	73	66	29	28	52	38	15	15	102	92	11	10	85	82

Cycle	LOWER BAY STATION 10-A				CROSS OVER CHANNEL STATION 47											
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.								
7	0	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0
10	0	0	5	3	0	0	3	3	1	0	0	0	0	0	3	3
15	0	1	3	6	-	1	-	6	1	1	0	0	0	0	9	9
20	4	4	7	9	1	4	13	9	11	12	1	1	0	0	16	13
25	10	10	11	13	-	10	-	13	33	31	3	3	1	1	13	17
30	19	20	17	19	18	20	17	19	49	43	16	7	13	10	17	21
35	31	30	20	25	-	30	-	25	51	50	11	11	10	19	14	24
40	39	38	32	31	37	38	27	31	53	52	14	16	27	27	15	26
45	42	42	42	38	-	42	-	38	49	52	18	19	15	31	23	27
50	42	43	50	46	37	43	40	46	46	52	20	21	32	33	46	28

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
JAMAICA BAY																
STATION J-0								STATION J-1								
11	0	0	0	0	5	0	0	0	0	0	2	1	2	0	2	1
16	0	1	1	2	-	0	-	1	0	2	3	3	-	1	-	2
21	5	6	6	5	1	1	5	3	6	5	7	6	0	2	3	4
26	12	14	8	9	-	5	-	6	14	14	10	10	-	5	-	6
31	29	25	15	14	12	11	10	10	28	24	16	16	9	8	9	9
36	39	36	20	20	-	20	-	14	39	34	19	22	-	13	-	13
41	44	44	25	26	29	28	16	20	43	41	24	28	23	18	16	18
46	47	48	33	32	-	33	-	26	42	43	33	33	-	25	-	21
49	48	49	40	34	33	35	27	30	42	44	41	35	27	28	23	22
JAMAICA BAY																
STATION J-2								STATION J-3								
11	0	0	2	1	2	0	0	0	0	0	0	0	2	0	0	0
16	0	1	3	2	-	0	-	0	0	0	0	0	0	0	-	0
21	1	2	7	5	0	2	1	1	1	2	2	2	0	1	0	0
26	6	6	9	9	-	3	-	3	2	4	5	4	-	2	-	1
31	13	13	10	13	5	6	6	5	7	7	7	6	2	4	2	2
36	24	20	16	18	-	9	-	9	12	11	8	9	-	6	-	4
41	29	27	19	23	16	14	11	13	17	16	12	12	10	9	6	7
46	33	32	23	26	-	19	-	17	21	20	16	15	-	13	-	10
49	33	33	28	27	23	23	19	18	21	22	17	17	16	16	13	12
JAMAICA BAY																
STATION J-11																
11	0	0	0	0	1	0	0	0	-	-	-	-	-	-	-	-
16	0	0	0	0	-	0	-	0	-	-	-	-	-	-	-	-
21	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
26	1	1	0	0	-	0	-	0	-	-	-	-	-	-	-	-
31	1	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-
36	3	3	2	2	-	2	-	2	-	-	-	-	-	-	-	-
41	6	6	4	4	4	4	3	4	-	-	-	-	-	-	-	-
46	9	9	6	6	-	7	-	6	-	-	-	-	-	-	-	-
49	11	11	6	6	9	9	7	6	-	-	-	-	-	-	-	-
RARITAN BAY																
STATION 1								STATION 2								
1	1	1	0	0	4	2	0	0	-	-	0	0	-	0	0	0
3	25	22	0	0	8	16	0	0	-	-	0	0	-	55	0	0
5	77	64	1	2	54	45	3	2	-	-	0	0	-	130	0	0
7	432	140	0	9	101	99	9	9	-	-	1	1	-	210	0	0
10	-	300	0	30	191	195	29	30	-	-	7	8	-	290	6	6
15	276	540	50	81	-	320	-	81	-	-	65	53	-	320	-	40
20	464	580	145	143	480	330	169	143	-	-	164	165	205	325	125	125
25	677	580	201	200	-	330	-	200	-	-	215	280	-	325	-	230
30	488	580	415	243	292	330	371	243	-	-	333	340	496	325	265	270
35	378	580	538	282	-	330	-	282	-	-	451	370	-	325	-	280
40	859	580	397	320	330	330	305	320	-	-	397	400	244	325	309	290
45	814	580	388	360	-	330	-	360	-	-	408	410	-	325	-	300
50	362	580	389	390	362	330	297	390	-	-	418	420	378	325	292	310

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RARITAN BAY																
STATION 3								STATION 4								
1	-	-	0	0	-	0	0	0	0	0	0	0	0	0	0	0
3	-	-	0	0	-	40	0	0	44	40	0	0	49	40	0	0
5	-	-	6	5	-	105	3	5	48	90	0	2	114	90	3	2
7	-	-	24	18	-	190	13	18	26	150	1	7	108	150	10	7
10	-	-	81	46	-	310	40	48	535	210	28	18	260	210	20	18
15	-	-	111	150	-	385	-	150	252	235	36	40	-	235	-	40
20	-	-	238	240	484	385	141	240	307	235	46	81	456	235	73	61
25	-	-	268	285	-	385	-	265	213	235	178	80	-	235	-	80
30	-	-	503	285	401	385	387	285	168	235	117	103	252	235	352	103
35	-	-	493	305	-	385	-	305	268	235	256	130	-	235	-	130
40	-	-	333	330	268	385	298	330	182	235	67	158	236	235	117	158
45	-	-	354	355	-	385	-	355	128	235	80	190	-	235	-	190
50	-	-	375	380	409	385	301	380	158	235	135	220	268	235	95	220
RARITAN BAY																
STATION 5								STATION 6								
1	0	0	0	0	-	0	-	0	93	93	0	0	3	7	0	0
3	82	41	0	0	30	41	0	0	182	225	0	0	108	60	0	0
5	90	110	0	0	129	110	0	0	425	340	0	0	67	130	15	11
7	173	185	3	3	168	185	1	3	723	410	0	1	268	200	18	25
10	300	280	9	10	292	280	0	10	1132	450	4	5	252	275	29	50
15	386	335	38	29	-	335	-	30	768	450	83	20	-	305	-	86
20	51	335	17	42	378	335	45	51	440	450	42	38	393	305	120	120
25	93	335	53	52	-	335	-	67	417	450	68	55	-	305	-	152
30	69	335	86	62	134	335	97	83	15	450	52	77	221	305	547	190
35	22	335	60	73	-	335	-	100	190	450	66	105	-	305	-	230
40	25	335	67	83	111	335	101	116	252	450	158	140	190	305	280	275
45	-	335	-	94	-	335	-	132	393	450	152	180	-	305	-	325
50	103	335	109	105	128	335	172	150	1041	450	291	230	268	305	277	375
RARITAN BAY																
STATION 7								STATION 8								
2	10	7	0	0	10	7	0	0	2	2	0	0	0	0	0	0
4	41	70	0	0	158	68	0	0	0	5	0	0	2	2	0	0
6	129	255	1	4	150	150	6	4	11	13	0	0	3	5	0	0
8	859	440	0	15	425	223	10	15	37	28	0	0	12	13	0	0
11	814	620	33	40	370	292	36	40	119	55	10	5	21	35	0	5
16	260	680	90	79	300	310	110	79	163	183	28	27	128	113	32	27
21	496	680	104	125	307	310	125	125	838	310	94	40	236	230	70	40
26	441	680	313	168	632	310	386	168	448	340	182	197	417	277	147	170
31	330	680	476	215	354	311	485	215	300	340	243	270	315	280	212	220
36	723	680	479	270	244	311	481	270	307	340	403	330	276	280	319	262
41	-	680	349	330	292	312	382	330	378	340	485	380	205	280	377	300
46	723	680	372	400	213	313	407	400	677	340	406	420	292	280	318	337
49	677	680	384	445	244	313	353	445	456	340	342	460	244	280	203	365
RARITAN BAY																
STATION 9								STATION 10								
2	1	1	0	0	0	0	0	0	57	57	0	0	166	57	0	0
4	9	9	0	0	10	4	0	0	205	190	0	0	126	150	0	0
6	18	31	0	0	11	15	0	0	119	260	0	0	197	190	4	3
8	42	87	0	0	19	33	0	0	95	330	2	3	582	223	6	7
11	145	145	6	5	55	77	3	5	574	425	0	8	814	265	23	19
14	292	290	42	43	-	188	25	59	378	560	99	30	307	320	60	66
21	464	430	162	61	197	330	179	170	401	845	88	75	432	360	139	160
28	535	530	89	77	582	440	207	237	448	680	117	160	-	385	285	250
31	550	605	122	92	767	540	305	280	723	680	235	220	354	400	337	285
38	503	640	178	107	877	590	459	345	-	880	377	260	877	410	559	330
41	814	640	120	122	440	820	536	400	244	680	901	290	386	415	378	360
46	723	840	128	133	632	625	441	445	859	680	1390	310	425	420	322	380
49	472	640	137	145	677	830	417	480	905	680	1568	330	425	420	355	400

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RARITAN BAY																
STATION 11												STATION 12				
1	1	1	0	0	859	430	0	0	0	0	0	0	14	14	0	0
3	-	143	0	0	323	560	0	0	54	56	0	0	108	108	0	0
5	244	165	0	0	378	605	0	0	260	115	0	0	178	200	0	0
7	260	175	0	0	-	620	0	0	284	160	0	0	354	290	0	0
10	221	190	0	3	550	650	18	11	-	195	0	0	448	360	0	0
15	119	200	27	21	-	650	-	73	158	220	49	13	-	370	-	40
20	448	205	22	33	401	650	109	108	62	223	12	21	417	370	122	74
25	197	208	51	44	-	650	-	148	409	225	108	29	-	370	-	98
30	158	210	60	58	393	650	302	180	35	228	41	40	236	370	246	120
35	190	212	93	74	-	650	-	240	26	230	45	53	-	370	-	150
40	95	212	91	91	859	650	322	300	244	232	163	68	228	370	118	175
45	103	212	88	112	-	650	-	370	90	232	91	87	-	370	-	205
50	-	212	-	135	346	650	223	440	-	232	-	108	228	370	108	235
RARITAN BAY (CONT'D)																
STATION 13																
1	0	0	1	0	-	0	-	0	0	0	0	0	6	6	2	0
6	21	27	1	0	36	27	0	0	0	0	0	0	338	325	0	0
8	129	38	0	0	-	38	-	0	0	0	0	0	142	395	4	4
11	228	48	0	0	292	48	1	0	0	0	0	0	527	420	0	9
16	80	58	6	5	-	58	-	9	0	0	0	0	574	445	20	24
21	29	64	38	29	370	64	3	29	0	0	0	0	445	445	63	63
26	16	65	47	42	-	65	-	42	0	0	0	0	445	445	108	94
31	4	65	48	49	1	65	49	49	0	0	0	0	445	445	130	130
36	6	65	49	56	-	65	-	56	0	0	0	0	445	445	166	163
41	11	65	59	64	16	65	55	64	0	0	0	0	445	445	207	255
46	12	65	74	74	-	65	-	74	0	0	0	0	445	445	305	305
49	14	65	81	82	23	65	88	82	0	0	0	0	445	445	360	360
RARITAN BAY (CONT'D)																
STATION 14												STATION 15				
1	0	0	0	0	-	0	-	0	0	0	0	0	6	6	2	0
3	0	0	1	0	165	165	0	0	44	44	0	0	338	325	0	0
5	205	119	0	0	814	230	0	0	480	220	0	0	142	395	4	4
7	197	135	0	0	221	264	0	0	417	240	0	0	527	420	0	9
10	126	142	1	1	632	290	10	11	119	250	3	6	574	445	20	24
15	126	142	5	5	-	295	-	32	677	255	0	19	-	445	-	63
20	101	142	12	16	440	295	42	47	174	256	21	30	338	446	108	94
25	72	142	39	36	-	295	-	63	166	258	51	43	-	447	-	130
30	49	142	47	51	182	295	87	80	57	260	49	59	244	448	166	163
35	93	142	63	65	-	295	-	101	95	260	66	80	-	450	-	206
40	258	142	126	78	67	295	61	124	163	260	110	105	574	450	207	255
45	292	142	142	92	-	295	-	148	260	260	133	135	-	450	-	305
50	106	142	106	105	119	295	90	174	535	260	216	170	268	450	183	360
RARITAN BAY (CONT'D)																
STATION 16												STATION 17				
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	8	1	0	11	9	0	0	0	0	0	0	24	5	0	0
5	859	50	0	0	111	90	0	0	17	17	1	0	12	25	0	0
7	440	150	0	2	142	300	0	2	322	125	0	0	42	76	0	0
10	244	295	0	3	244	550	6	1	221	315	0	7	188	220	0	7
15	519	435	23	7	-	920	-	7	378	570	0	30	-	400	-	30
20	103	470	7	16	1360	1120	135	16	723	670	60	60	566	440	108	60
25	126	465	40	33	-	1150	-	33	768	670	91	87	-	440	-	87
30	90	485	52	63	632	1150	159	63	236	670	106	116	456	440	241	116
35	145	485	107	114	-	1150	-	114	221	670	132	152	-	440	-	152
40	632	485	279	190	2725	1150	111	190	723	670	285	193	417	440	378	193
45	566	485	259	290	-	1150	-	290	677	670	231	243	-	440	-	243
50	322	485	103	370	1041	1150	249	370	550	670	293	295	456	440	288	295

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
RARITAN BAY (CONT'D)																
STATION 18																
1	0	0	0	0	-	0	-	0								
3	0	0	0	0	0	0	0	0	0	0						
5	0	0	0	0	0	0	0	0	0	0						
7	59	45	0	0	0	0	0	0	0	0						
10	90	110	0	0	18	18	18	18	0	0						
15	165	220	3	3	-	90	-	0								
20	300	330	64	67	119	170	19	21								
25	456	420	213	215	-	250	-	102								
30	-	475	308	342	488	310	159	160								
35	480	485	501	465	-	350	-	220								
40	393	485	527	600	338	352	273	280								
45	464	485	406	740	-	355	-	355								
50	632	485	407	900	307	355	189	440								
RARITAN BAY (Cont'd)																
STATION 19					STATION 20											
4	-	0	-	0	-	0	-	0	-	0	-	0	-	20	-	0
6	13	13	0	0	15	13	0	0	6	6	0	0	448	195	0	0
8	244	84	0	0	31	84	0	0	26	23	0	0	632	305	0	0
11	85	170	0	0	147	184	0	0	27	47	0	0	315	390	0	0
16	284	255	0	0	183	350	0	0	60	87	0	3	519	430	22	3
21	574	265	13	6	723	520	16	13	181	130	7	9	166	440	4	9
26	221	265	11	11	425	580	19	25	284	157	37	18	236	450	32	18
31	103	265	12	16	632	580	50	34	119	165	29	28	67	460	24	28
36	292	265	45	22	338	580	26	44	126	170	32	39	62	465	27	39
41	205	265	29	30	768	580	69	55	134	172	54	51	142	470	57	51
46	236	265	32	41	1041	580	59	67	150	173	58	61	236	470	72	61
49	330	265	54	49	456	580	77	74	197	175	69	67	905	475	183	67
RARITAN BAY (Cont'd)																
STATION 21					STATION 22											
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	1	1	1	0	46	6	0	0	0	0	1	4	0	0	0	0
8	8	8	1	0	-	13	-	0	0	0	12	8	-	0	-	2
11	28	10	1	0	98	17	0	0	1	18	15	1	1	4	6	6
16	13	11	8	4	-	21	-	2	3	3	27	26	-	3	-	15
21	7	12	39	13	35	22	5	8	59	5	43	37	3	5	17	27
26	4	12	48	27	-	22	-	17	6	7	43	44	-	7	-	38
31	4	12	48	43	4	22	48	32	9	10	40	50	6	10	46	46
36	6	12	48	58	-	23	-	48	11	12	41	54	-	12	-	54
41	11	12	65	72	15	23	53	63	18	15	56	58	14	15	51	58
46	13	12	85	82	-	23	-	73	20	17	67	62	-	17	-	62
49	15	12	88	85	16	23	74	76	18	16	85	64	15	18	74	64
RARITAN BAY (CONT'D)																
STATION 23																
4	-	0	-	0	-	3	-	0								
6	1	1	0	0	27	27	0	0								
8	4	4	0	0	72	69	0	0								
11	31	31	0	0	114	114	0	0								
16	61	94	0	0	129	200	0	0								
21	139	150	2	2	409	266	15	10								
26	176	163	7	5	376	280	45	26								
31	322	165	53	8	252	295	40	48								
36	119	165	10	12	236	298	74	74								
41	119	165	14	17	322	300	141	96								
46	150	165	27	22	322	300	120	114								
49	182	165	26	24	284	300	115	118								

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RARITAN RIVER																
MILE 19								MILE 21								
1	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
3	0	0	0	0	-	0	-	0	4	1	0	0	-	0	-	0
5	14	10	0	0	-	0	-	0	3	7	0	0	-	0	-	0
7	38	38	0	0	1	1	0	0	4	25	0	0	10	4	0	0
10	21	79	0	0	4	16	0	0	85	62	0	0	16	19	0	0
15	72	120	0	0	-	36	-	0	75	156	0	0	-	79	-	0
20	221	153	24	14	51	47	0	1	432	220	20	20	150	118	1	1
25	315	175	77	33	-	56	-	9	354	220	46	44	-	125	-	19
30	276	190	111	58	69	61	27	18	284	220	68	63	260	130	69	35
35	-	200	-	84	-	65	-	28	-	220	-	76	-	130	-	45
40	190	203	83	105	41	66	33	39	213	220	85	82	103	131	52	52
45	-	207	-	122	-	67	-	46	-	220	-	84	-	132	-	56
50	150	210	124	125	67	67	49	49	221	220	85	84	142	132	57	57
RARITAN CHANNEL																
MILE 23								MILE 28								
1	-	0	-	0	-	0	-	0	0	0	0	0	0	0	0	0
3	9	7	0	0	-	0	-	0	1	3	1	0	69	69	0	0
5	43	20	0	0	-	0	-	0	42	22	0	0	190	170	0	0
7	82	43	12	3	7	27	0	0	114	39	0	0	268	250	1	1
10	67	95	6	9	114	95	4	4	129	50	1	1	378	325	1	2
15	114	195	16	39	-	195	-	25	417	52	20	19	-	350	-	46
20	354	220	164	110	409	220	69	57	69	52	31	32	354	350	61	68
25	315	220	177	183	-	220	-	81	57	52	46	44	-	350	-	86
30	260	220	330	225	260	220	116	100	12	52	54	54	205	350	119	105
35	-	220	-	250	-	220	-	117	10	52	52	63	-	350	-	122
40	205	220	215	267	93	220	92	130	16	52	56	72	370	550	181	140
45	-	220	-	275	-	220	-	141	22	52	78	81	-	350	-	160
50	244	220	235	280	191	220	162	150	49	52	94	90	150	350	128	180
RARITAN CHANNEL (CONT'D)																
MILE 33								MILE 37								
4	0	0	0	0	-	14	-	0	-	0	-	0	-	0	-	0
6	0	0	2	4	24	21	0	0	0	0	0	1	2	0	0	1
8	0	0	9	9	-	26	-	0	1	0	0	2	1	0	1	2
11	1	1	15	17	32	31	0	0	1	2	3	4	1	4	3	3
16	4	3	33	25	-	40	-	4	11	5	7	6	2	5	11	6
21	114	5	9	32	54	53	6	7	11	15	10	11	30	15	13	11
26	173	8	49	40	-	70	-	10	19	27	14	17	28	27	18	17
31	7	10	39	48	108	92	12	13	64	39	23	25	27	39	22	25
36	10	13	42	57	-	122	-	17	46	48	20	30	-	48	-	30
41	17	16	61	66	139	160	24	21	46	52	27	36	16	52	21	36
46	19	18	78	75	-	210	-	25	54	52	40	41	-	52	-	41
49	20	20	85	81	268	245	190	28	51	52	41	42	29	52	43	42
MILE 40																
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
6	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
8	0	0	1	1	-	0	-	0	-	0	-	0	-	0	-	0
11	0	0	2	2	1	0	7	4	-	-	-	-	-	-	-	-
16	3	3	10	6	-	3	-	9	-	-	-	-	-	-	-	-
21	8	12	9	13	12	12	17	17	-	-	-	-	-	-	-	-
26	24	23	18	22	-	23	-	27	-	-	-	-	-	-	-	-
31	45	36	32	33	34	36	37	37	-	-	-	-	-	-	-	-
36	55	48	43	45	-	48	-	47	-	-	-	-	-	-	-	-
41	58	56	59	55	49	56	55	56	-	-	-	-	-	-	-	-
46	53	58	58	63	-	58	-	62	-	-	-	-	-	-	-	-
49	56	59	69	66	60	59	61	63	-	-	-	-	-	-	-	-

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
FRESH KILL																
STATION 1								KILL VAN KULL								
MILE 1								MILE 3								
1	-	4	-	60	-	1	-	60	0	0	-	0	-	-	-	-
3	12	9	2312	630	5	5	853	630	0	0	0	0	-	-	-	-
5	16	14	3072	1500	12	10	2312	1500	0	0	2	2	-	-	-	-
7	21	19	2342	2550	14	16	3072	2550	0	0	5	6	-	-	-	-
10	31	30	4061	4061	22	27	2342	4061	0	0	18	18	-	-	-	-
15	59	55	7790	6650	53	49	7490	6650	0	0	30	30	-	-	-	-
20	82	80	9489	9489	75	72	6989	9489	0	0	34	40	-	-	-	-
25	106	103	12188	12500	98	92	10488	12500	0	0	51	49	-	-	-	-
30	119	120	15737	15100	108	108	13988	15100	0	1	57	55	-	-	-	-
35	132	133	19236	17400	119	120	19237	17400	0	2	34	62	-	-	-	-
40	145	142	20986	19400	137	130	20986	19400	3	2	75	68	-	-	-	-
45	150	150	22735	21000	145	137	20986	21000	-	3	-	72	-	-	-	-
50	152	154	22735	21800	147	142	19237	21800	-	3	-	78	-	-	-	-

	KILL VAN KULL (Cont'd)				KILL VAN KULL (CONT'D)			
	MILE 4				MILE 5			
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
6	0	0	16	16	0	0	36	20
8	0	0	34	29	1	1	132	98
11	0	0	40	35	2	2	214	210
16	0	0	64	40	3	3	301	280
21	0	0	33	45	5	4	323	323
26	1	1	51	51	5	5	355	355
31	1	2	57	57	5	6	311	410
36	2	2	64	65	6	8	355	465
41	3	3	71	73	10	9	578	530
46	-	4	-	82	13	11	632	600
49	4	4	96	89	13	12	632	660

	ARTHUR KILL			
	MILE 6			
	Obs.	Cor.	Obs.	Cor.
1	0	0	4	18
3	0	1	82	89
5	4	4	311	210
7	4	6	269	345
10	8	8	536	597

	ARTHUR KILL (Cont'd)			
	MILE 7			
	Obs.	Cor.	Obs.	Cor.
1	11	7	2662	2662
3	24	19	4072	4400
5	31	27	7491	5700
7	31	34	6791	7000
10	39	44	7491	8700
15	56	58	9790	11100
20	72	70	13989	13600
25	77	82	13989	16300
30	88	94	17489	19100
35	111	105	24487	22100
40	126	115	29736	25100
45	132	123	29736	28000
50	137	130	29736	31500

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
ARTHUR KILL (Cont'd)																
MILE 8								MILE 10								
2	14	8	0	1025	1	1	68	76	9	7	1373	1250	6	4	1083	1000
4	22	17	2832	3100	4	5	375	430	15	16	2132	2500	15	14	2892	1300
6	25	27	3822	4700	9	8	1493	1000	21	23	3002	3600	20	19	1612	1575
8	39	35	6791	6500	10	10	1782	1650	33	31	1601	4400	23	23	1782	1850
11	44	43	8291	8300	12	12	2202	2225	58	40	5590	5600	24	25	1962	2250
MILE 9																
1	13	4	2312	2200	0	0	46	80								
3	16	12	2952	2952	6	7	1023	1325								
5	18	22	3532	3532	13	11	2372	2300								
7	23	30	4352	4100	15	15	3062	3000								
10	39	39	4591	4900	18	18	3602	3750								
ARTHUR KILL (Cont'd)																
MILE 11																
1	2	2	183	183	11	6	2372	2372								
3	7	6	547	650	14	14	3602	4600								
5	15	16	1372	1372	26	21	5592	5700								
7	24	34	2132	2132	28	27	5792	6600								
10	62	62	3160	3060	34	36	8291	8000								
15	119	110	3087	4400	51	51	11490	10100								
20	163	142	5785	5800	64	67	12240	12240								
25	182	164	8284	7100	72	82	10489	14500								
30	182	178	8734	9150	98	95	17488	16800								
35	182	186	10484	11200	101	107	19238	19238								
40	158	189	13985	13500	121	114	20987	21800								
45	174	190	10484	16000	124	120	22737	24400								
50	182	190	10484	18500	121	122	26237	27000								
ARTHUR KILL (Cont'd)																
MILE 12								MILE 14								
2	2	1	179	170	17	6	3602	3650	11	7	2082	24	12	5	2082	2325
4	8	7	397	500	25	20	5592	5200	29	31	63	130	14	14	2482	3050
6	19	21	600	1025	29	28	6292	6200	56	58	190	325	22	23	1112	3650
8	37	44	1671	1671	32	34	7491	7100	111	82	188	620	31	32	4801	4200
11	75	71	2599	2600	39	40	8791	8400	121	120	1547	1200	47	46	5791	5200
MILE 13																
1	0	0	57	40	3	2	1373	1750								
3	4	16	197	205	16	11	3072	2775								
5	19	31	268	490	20	19	2342	3350								
7	38	49	491	900	24	25	4062	3950								
10	80	74	1609	1609	36	35	5791	4900								
ARTHUR KILL (Cont'd)																
MILE 15																
1	0	0	0	0	6	1	1028	1175								
3	30	30	8	14	11	8	1961	1900								
5	75	75	34	25	14	18	2078	2375								
7	114	112	62	42	24	33	3188	2825								
10	260	150	76	82	40	62	2831	3550								
15	322	195	180	195	116	107	2587	5000								
20	354	225	325	375	150	143	6985	6700								
25	260	250	1250	620	174	160	9284	8800								
30	244	260	1481	910	174	170	11484	11300								
35	166	267	1715	1235	158	173	13985	14200								
40	197	270	1313	1990	174	176	-	17000								
45	174	270	1364	1950	166	178	20985	20200								
50	244	270	1601	2300	174	180	22734	23600								

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
MILE 16																
ARTHUR KILL (Cont'd)																
MILE 18																
2	9	13	1	1	3	3	194	190	213	53	0	2	0	0	20	18
4	75	70	9	13	6	7	526	660	190	122	0	9	13	9	96	74
6	121	127	24	24	14	14	1552	1380	142	190	11	18	34	34	149	165
8	173	180	39	39	26	26	2082	2150	338	250	21	30	67	67	266	290
11	268	265	66	74	51	51	3240	3150	205	315	158	53	124	124	487	470
MILE 17																
1	1	1	0	0	0	0	1	1								
3	59	45	4	5	2	3	150	120								
5	113	113	8	13	10	12	321	321								
7	152	180	20	23	24	30	514	700								
10	284	284	38	43	65	65	1430	1475								
MILE 19																
ARTHUR KILL (Cont'd)																
1	0	0	3	0	0	0	0	0								
3	10	17	6	5	31	17	7	3								
5	46	63	24	13	95	63	5	7								
7	51	81	21	23	119	78	16	12								
10	-	123	42	43	93	102	20	23								
15	134	193	110	94	244	133	50	51								
20	276	265	132	165	142	155	72	89								
25	346	340	194	240	197	170	136	134								
30	677	405	455	320	213	180	365	188								
35	134	515	540	410	134	183	422	246								
40	221	550	462	500	134	186	315	305								
45	182	550	517	570	150	188	336	365								
50	488	570	463	640	174	188	388	420								
MILE 20																
ARTHUR KILL (Cont'd)																
2	38	7	3	3	0	7	7	7								
4	36	25	10	10	23	25	43	40								
6	51	60	26	22	62	60	86	88								
8	114	110	27	37	101	110	149	136								
11	252	210	59	66	189	210	234	210								
MILE 1																
NEWARK BAY																
2	-	0	-	0	-	0	-	0								
4	0	0	-	1	-	0	-	0								
6	1	0	61	46	0	0	12	12								
8	1	1	121	70	1	1	52	50								
11	2	2	143	90	1	2	111	121								
16	3	3	232	123	3	3	183	183								
21	2	4	189	158	4	4	269	240								
28	2	5	177	195	5	5	311	298								
31	3	6	214	238	4	6	301	360								
36	5	7	253	282	5	7	301	425								
41	8	9	333	330	8	9	440	490								
46	9	10	344	380	11	10	568	568								
49	10	11	406	415	13	11	632	610								

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
NEWARK BAY (Cont'd)																
MILE 2																
2	0	0	3	4	-	0	-	0								
3	0	0	11	28	0	0	0	0								
5	1	1	65	73	0	0	0	4								
7	1	1	114	110	0	0	15	24								
10	2	2	193	144	1	1	73	77								
11	2	2	232	153	1	1	86	100								
16	3	3	225	200	2	2	200	156								
21	3	4	237	250	3	3	237	205								
26	3	5	205	300	4	4	269	258								
31	4	6	215	350	4	5	279	310								
36	6	8	354	400	5	6	301	370								
41	10	9	492	455	7	7	408	435								
46	4	11	-	510	9	8	515	500								
49	12	12	535	540	12	9	589	540								
NEWARK BAY (Cont'd)																
MILE 4								HACKENSACK RIVER								
MILE 3																
4	-	0	-	0	-	0	-	0	0	0	3	3	-	0	-	0
6	0	0	57	57	0	0	3	3	0	0	19	16	0	0	5	1
8	1	1	132	130	0	0	8	13	1	1	47	47	0	0	-	2
11	3	2	225	205	1	1	40	36	1	1	111	120	1	1	3	7
16	4	3	311	275	1	1	121	93	3	2	183	185	-	1	-	30
21	5	4	355	340	3	2	129	133	4	3	259	245	2	2	71	66
26	5	5	322	405	3	3	193	170	4	4	311	310	-	2	-	98
31	5	7	311	470	4	4	215	210	4	5	311	380	2	2	118	125
36	6	9	376	530	4	5	215	260	3	7	-	450	-	3	-	153
41	11	11	622	590	5	6	269	310	7	9	463	520	3	3	153	172
46	13	12	664	650	7	7	365	360	11	11	610	620	-	4	-	185
49	14	13	685	680	8	7	451	390	12	12	642	670	4	4	239	189
HACKENSACK RIVER (Cont'd)																
MILE 6								MILE 10								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
6	0	0	4	4	-	0	-	0	-	0	-	0	-	0	-	0
8	0	0	12	12	-	0	-	0	-	0	-	1	-	0	-	0
11	0	0	43	35	0	0	3	2	1	0	4	4	-	0	-	0
16	2	2	114	89	-	0	-	10	1	1	14	14	-	0	-	2
21	2	2	197	130	1	1	25	25	1	1	33	31	1	1	10	7
26	3	3	172	172	-	2	-	45	1	2	53	52	-	1	-	17
31	3	4	183	217	2	2	68	67	2	2	82	76	1	1	34	34
36	2	5	-	270	-	2	-	87	2	2	-	102	-	2	-	52
41	5	6	279	325	2	3	107	107	2	3	132	128	2	2	61	73
46	7	7	397	385	-	3	-	120	3	3	171	155	-	2	-	87
49	9	8	440	425	3	3	146	128	3	3	197	172	2	2	93	93
HACKENSACK RIVER (Cont'd)																
MILE 15								PASSAIC RIVER								
MILE 3																
4	-	0	-	0	-	0	-	0	0	0	1	1	-	0	-	0
6	-	0	-	0	-	0	-	0	0	0	3	4	-	0	-	0
8	-	0	-	0	-	0	-	0	0	0	15	18	-	0	-	0
11	-	0	-	0	-	0	-	0	1	1	46	44	0	0	3	3
16	1	0	3	2	-	0	-	0	1	1	82	86	-	0	-	19
21	1	1	5	5	1	1	2	2	2	2	186	122	1	1	54	45
26	1	1	7	10	-	1	-	4	3	3	233	162	-	2	-	82
31	-	1	-	17	1	1	4	6	4	4	250	208	2	2	132	124
36	2	2	-	26	-	1	-	11	3	5	-	260	-	2	-	162
41	1	2	42	36	1	1	15	15	4	6	269	320	3	4	175	193
46	2	2	44	45	-	1	-	19	6	7	343	370	-	4	-	225
49	2	2	61	49	1	1	21	20	7	7	397	425	3	4	207	245

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
PASSAIC RIVER (Cont'd)																
MILE 6								MILE 10								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
6	0	0	1	1	-	0	-	0	-	0	-	0	-	0	-	0
8	1	-	2	2	-	0	-	0	-	0	-	0	-	0	-	0
11	1	0	4	4	0	0	2	1	1	0	1	1	0	0	-	0
16	1	1	9	10	-	0	-	4	1	0	2	2	-	0	-	0
21	1	1	17	21	1	1	9	10	1	1	3	4	1	1	1	1
26	2	2	72	38	0	1	-	20	1	1	7	8	-	1	-	3
31	1	2	82	60	1	1	31	31	1	1	14	14	1	1	5	6
36	1	2	-	86	-	1	-	44	1	1	-	21	-	1	-	10
41	3	3	143	112	1	2	57	56	1	2	26	29	1	1	16	15
46	2	3	139	135	-	2	-	64	1	2	36	36	-	1	-	18
49	3	3	153	145	2	2	68	66	4	2	52	39	1	1	20	20

PASSAIC RIVER (Cont'd)																
MILE 15																
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
6	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
8	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
11	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
16	1	1	2	1	-	0	-	0	-	0	-	0	-	0	-	0
21	1	1	2	2	1	1	2	1	1	1	2	1	1	1	1	1
26	1	1	3	3	-	1	-	2	-	1	-	2	-	1	-	2
31	-	1	-	4	-	1	-	2	-	1	-	2	-	1	-	2
36	1	1	-	5	-	1	-	3	-	1	-	3	-	1	-	3
41	1	1	5	5	1	1	2	3	1	1	2	3	1	1	2	3
46	1	1	4	6	-	1	-	4	-	1	-	4	-	1	-	4
49	1	1	6	6	1	1	5	4	1	1	5	4	1	1	5	4

HARLEM RIVER																
MILE 3				MILE 6												
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
20	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
25	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
35	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

UPPER BAY																
STATION 5				STATION 11												
4	-	0	-	3	-	0	-	5	-	0	-	0	-	0	-	0
5	0	0	11	11	0	0	15	9	0	0	7	7	0	0	52	45
7	0	0	18	23	0	0	9	12	0	0	17	19	0	0	36	92
10	0	0	47	36	0	0	54	16	0	0	84	32	1	0	154	120
15	0	0	53	51	-	0	-	23	0	0	52	39	-	0	-	145
20	1	1	65	63	1	0	8	28	0	0	48	44	0	1	46	177
25	2	2	64	72	-	0	-	33	1	1	53	50	-	2	-	215
30	3	3	68	80	1	1	22	37	1	2	45	57	4	3	247	265
35	4	4	82	86	-	2	-	41	7	3	48	64	-	5	-	325
40	6	6	128	92	2	4	60	44	4	5	79	73	9	9	408	400
45	7	7	143	97	-	5	-	47	6	6	104	83	-	12	-	480
50	7	7	132	100	8	7	-	49	5	7	96	94	14	15	578	580

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
UPPER BAY (Cont'd)																
STATION 13								STATION 13A								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
5	0	0	3	2	0	0	1	1	0	0	2	2	0	0	0	1
7	0	0	9	9	0	0	3	4	0	0	7	8	0	0	12	6
10	0	0	18	17	0	0	12	11	0	0	19	15	0	0	21	12
15	3	1	22	27	-	0	-	20	1	0	21	24	-	0	-	19
20	1	2	40	35	0	0	27	27	1	1	36	32	0	0	8	25
25	3	4	47	43	-	0	-	33	2	3	46	40	-	0	-	30
30	6	6	42	50	1	1	11	38	5	6	44	45	0	1	17	35
35	10	10	46	58	-	2	-	43	10	10	47	58	-	2	-	39
40	14	13	60	66	3	4	33	48	13	14	76	69	4	3	154	43
45	15	15	78	75	-	5	-	53	16	16	78	81	-	4	-	48
50	16	16	95	83	6	6	65	57	16	17	95	92	3	4	24	53

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
UPPER BAY (Cont'd)																
STATION 13B								STATION 14A								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
5	0	0	3	3	0	0	1	1	0	0	0	0	0	0	0	0
7	0	0	10	10	0	0	6	5	0	0	0	0	0	0	0	0
10	0	0	21	18	0	0	11	12	0	0	2	2	0	0	0	0
15	4	1	26	28	-	0	-	21	0	0	10	7	-	0	-	2
20	1	2	40	36	0	0	31	28	0	0	8	9	3	0	1	3
25	3	4	46	40	-	0	-	33	1	1	11	11	-	0	-	3
30	6	7	39	53	1	1	18	37	0	2	9	12	0	1	3	4
35	10	10	43	62	-	2	-	40	4	2	8	14	-	2	-	4
40	16	13	68	71	3	4	36	42	2	3	18	15	1	2	1	4
45	15	15	81	81	-	5	-	44	3	4	18	16	-	3	-	5
50	15	15	95	91	6	6	46	46	4	5	25	17	6	4	8	5

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
UPPER BAY (Cont'd)																
STATION 15A								STATION 16								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
5	0	0	0	0	-	0	-	0	0	0	3	3	0	0	0	0
7	0	0	0	0	-	0	-	0	0	0	9	6	0	0	0	0
10	0	0	3	3	0	0	0	0	0	0	9	9	0	0	0	0
15	0	0	18	14	0	0	0	2	1	0	46	13	-	0	-	0
20	0	0	14	19	0	0	3	4	0	0	16	18	0	0	2	2
25	0	0	33	32	-	0	-	5	1	1	21	22	-	0	-	3
30	0	0	15	25	0	0	6	6	3	2	42	28	0	0	4	4
35	0	1	9	26	-	0	-	8	4	4	33	34	-	1	-	5
40	3	2	39	27	0	0	7	8	5	6	39	41	0	1	5	6
45	1	3	20	27	-	0	-	9	6	7	46	49	-	2	-	7
50	2	3	37	27	0	0	9	9	9	8	69	58	2	2	8	8

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
UPPER BAY (Cont'd)																
STATION 17								STATION 18								
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
5	0	0	0	0	0	0	0	0	0	0	5	4	0	0	2	1
7	0	0	1	1	1	0	0	0	0	0	16	15	0	0	2	4
10	0	0	3	3	0	0	1	0	0	0	26	25	0	0	9	8
15	0	0	16	7	-	0	-	0	1	0	36	37	-	0	-	13
20	0	0	12	12	3	0	1	1	1	1	47	47	1	0	14	17
25	0	1	16	16	-	0	-	1	2	2	58	56	-	0	-	22
30	2	2	11	21	0	1	2	2	3	4	49	65	0	0	18	27
35	3	3	15	26	-	2	-	2	6	6	57	74	-	1	-	32
40	4	5	36	30	1	2	2	2	10	9	85	82	2	2	33	38
45	7	6	44	34	-	3	-	3	12	11	95	92	-	3	-	45
50	6	6	39	27	4	4	3	3	11	12	113	102	4	4	61	53

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
4	0	0	0	0	-	0	-	0	0	0	5	5	-	0	-	0
5	0	0	1	1	-	0	-	0	0	0	12	11	-	0	-	0
7	0	0	6	4	0	0	4	2	0	0	20	21	0	0	0	0
10	0	0	7	11	0	0	4	4	0	0	8	33	0	0	1	1
15	0	0	21	19	-	0	-	6	1	0	55	47	-	0	-	6
20	0	0	26	25	0	0	6	8	1	1	74	57	0	0	9	9
25	1	1	34	30	0	0	-	9	2	2	66	66	-	0	-	10
30	3	2	29	34	0	1	10	10	3	4	52	72	0	1	11	12
35	4	4	26	36	-	2	-	11	4	6	73	77	-	1	-	13
40	4	6	33	38	1	2	11	12	9	9	75	81	1	2	14	14
45	9	7	54	40	-	3	-	13	12	11	92	85	-	2	-	14
50	7	8	46	42	10	4	15	14	12	12	106	88	2	2	15	15

Cycle	UPPER BAY (CONT'D)															
	STATION 22															
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
4	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
5	9	0	2	2	0	0	2	1	0	2	1	0	2	3	0	3
7	0	0	9	8	0	0	2	3	0	2	3	0	2	3	0	3
10	0	0	13	17	0	0	5	5	0	5	5	0	5	5	0	5
15	1	0	36	28	-	0	-	7	0	-	7	0	-	7	0	-
20	0	1	42	38	2	0	9	9	0	9	9	0	9	9	0	9
25	2	2	49	47	-	0	-	11	0	-	11	0	-	11	0	-
30	4	5	44	54	0	1	12	13	0	1	12	13	0	1	12	13
35	8	8	52	63	-	1	-	15	0	-	15	0	-	15	0	-
40	12	11	67	72	1	2	18	17	0	2	18	17	0	2	18	17
45	12	12	85	81	-	2	-	20	0	-	20	0	-	20	0	-
50	12	13	95	90	2	2	24	22	0	2	24	22	0	2	24	22

Cycle	EAST RIVER															
	MILE 3								MILE 5							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
10	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
12	0	0	2	2	2	0	2	1	0	0	3	2	3	0	2	1
15	0	0	6	5	-	0	-	2	0	0	6	5	-	0	-	2
20	0	0	7	7	1	0	3	3	0	0	7	7	1	0	2	2
25	0	0	9	9	-	0	-	3	0	0	9	9	-	0	-	3
30	0	0	10	10	0	0	2	4	0	0	10	10	0	0	2	4
35	0	0	10	11	-	0	-	4	0	0	9	10	-	0	-	4
40	0	0	11	12	0	0	3	4	1	0	11	11	0	0	1	2
45	1	0	14	12	-	0	-	5	1	0	14	12	-	0	-	5
50	1	0	18	13	1	0	6	5	2	0	17	12	0	0	1	2

Cycle	EAST RIVER (Cont'd)															
	MILE 7								MILE 9							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
10	-	0	-	0	-	0	-	0	0	0	0	0	0	0	0	0
12	0	0	2	2	3	0	1	1	-	0	-	0	-	0	-	0
15	0	0	4	4	-	0	-	1	0	0	0	0	-	0	-	0
20	0	0	7	7	1	0	2	2	0	0	0	0	0	0	0	0
25	1	0	9	9	-	0	-	2	0	0	0	0	-	0	-	0
30	0	0	8	10	0	0	2	2	0	0	1	1	0	0	0	0
35	0	0	9	10	-	0	-	2	0	0	0	1	-	0	-	0
40	1	0	11	11	1	0	1	2	0	0	2	2	0	0	0	0
45	1	0	13	11	-	0	-	2	0	0	1	2	-	0	-	0
50	1	0	16	12	1	0	2	2	0	0	2	2	1	0	0	0

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water											
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.									
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.								
	MILE 11								EAST RIVER (Cont'd)								MILE 13							
10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0								
12	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0								
15	0	0	0	0	-	0	-	0	0	0	2	0	-	0	-	0								
20	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0								
25	0	0	0	0	-	0	-	0	1	0	2	0	-	0	-	0								
30	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0								
35	0	0	0	0	-	0	-	0	0	0	4	0	-	0	-	0								
40	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0								
45	0	0	0	0	-	0	-	0	1	0	2	0	-	0	-	0								
50	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0								

Cycle	High Water				Low Water				High Water				Low Water											
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.									
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.								
	MILE 15								EAST RIVER (Cont'd)								MILE 17							
10	0	0	1	0	-	0	-	0	0	0	2	0	-	0	-	0								
12	-	0	-	0	0	0	2	0	-	0	-	0	1	0	2	0								
15	0	0	1	0	-	0	-	0	0	0	1	0	-	0	-	0								
20	0	0	2	0	0	0	2	0	0	0	2	0	1	0	2	0								
25	0	0	1	0	-	0	-	0	0	0	1	0	-	0	-	0								
30	0	0	2	0	0	0	1	0	0	0	2	0	1	0	0	0								
35	0	0	2	0	-	0	-	0	0	0	2	0	-	0	-	0								
40	0	0	2	0	0	0	1	0	0	0	2	0	1	0	0	0								
45	0	0	2	0	-	0	-	0	1	0	2	0	-	0	-	0								
50	0	0	2	0	0	0	0	0	1	0	2	0	1	0	0	0								

Cycle	High Water				Low Water				High Water				Low Water											
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.									
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.								
	STATION 21C								EAST RIVER (Cont'd)								HEADBAY							
10	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0								
12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
15	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0								
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
25	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0								
30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0								
35	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0								
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
45	0	0	0	0	-	0	-	0	1	0	0	0	-	0	-	0								
50	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0								

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	RIKERS ISLAND CHANNEL								FLUSHING BAY CHANNEL							
	MILE 12								MILE 15							
10	0	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0
12	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
15	0	0	2	0	-	0	-	0	0	0	2	0	-	0	-	0
20	0	0	2	0	0	0	1	0	2	0	1	0	1	0	1	0
25	0	0	2	0	-	0	-	0	0	0	2	0	-	0	-	0
30	1	0	2	0	3	0	2	0	0	0	2	0	1	0	1	0
35	1	0	2	0	-	0	-	0	0	0	2	0	-	0	-	0
40	0	0	3	0	1	0	1	0	2	0	2	0	0	0	1	0
45	1	0	3	0	-	0	-	0	0	0	2	0	-	0	-	0
50	1	0	4	0	1	0	2	0	0	0	2	0	3	0	2	0

Table 3 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
	MILE -15				HUDSON RIVER								MILE -12			
7	3	0	0	0	-	0	-	0	0	0	0	0	-	0	-	2
10	2	0	0	0	2	0	0	0	1	0	0	0	0	0	11	4
15	1	0	0	1	-	0	-	0	0	0	0	0	-	0	-	8
20	3	3	5	2	0	0	0	0	3	3	0	0	1	0	12	15
25	10	9	6	5	-	3	-	0	9	9	0	3	-	2	-	22
30	21	18	6	7	12	9	1	1	20	18	6	6	9	5	34	31
35	26	26	9	11	-	17	-	2	26	25	10	9	-	10	-	40
40	34	33	17	15	25	24	5	4	31	30	11	13	14	14	52	49
45	37	37	20	21	-	28	-	7	30	33	22	18	-	17	-	60
50	38	38	29	28	30	30	9	10	37	35	22	24	18	18	72	69

Cycle	MILE -9				HUDSON RIVER (Cont'd)								MILE 3			
	7	0	0	0	0	0	7	7	0	0	0	0	-	0	-	0
	10	0	0	14	2	0	14	13	1	0	0	0	0	0	0	0
15	0	0	4	4	-	0	-	23	1	0	1	1	-	0	-	
20	1	1	10	8	0	0	35	33	0	0	1	1	0	0	0	
25	7	6	15	13	-	0	-	42	0	0	2	2	-	0	-	
30	15	15	16	20	2	2	53	51	0	0	0	2	0	0	0	
35	28	25	23	28	-	4	-	58	1	1	0	3	-	0	-	
40	32	32	34	37	6	5	75	64	1	1	1	3	0	0	0	
45	37	37	42	46	-	7	-	69	2	2	6	4	-	0	-	
50	40	40	51	52	8	8	72	71	1	2	3	5	0	0	0	

Cycle	MILE 6				HUDSON RIVER (Cont'd)								MILE 9			
	7	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	1	-	0	-	0	0	0	1	1	-	0	-	
20	0	0	0	1	0	0	0	0	0	0	3	2	0	0	0	
25	0	0	0	2	-	0	-	0	0	0	2	2	-	0	-	
30	0	0	0	2	0	0	0	0	0	0	1	3	0	0	0	
35	0	0	0	3	-	0	-	0	0	0	3	3	-	0	-	
40	0	0	0	3	0	0	0	0	0	0	4	4	0	0	0	
45	1	0	2	4	-	0	-	0	0	0	5	5	-	0	-	
50	1	0	1	5	0	0	0	0	1	0	6	5	0	0	0	

Cycle	MILE 12				HUDSON RIVER (Cont'd)								MILE 15			
	7	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	
20	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
25	1	0	2	2	-	0	-	0	1	0	0	0	-	0	-	
30	1	0	2	2	0	0	0	0	1	0	0	0	0	0	0	
35	1	0	3	3	-	0	-	0	1	0	0	0	-	0	-	
40	1	0	3	3	0	0	0	0	1	0	0	0	0	0	0	
45	1	0	4	4	-	0	-	0	1	0	0	0	-	0	-	
50	2	0	5	5	0	0	0	0	1	0	0	0	0	0	0	

Table 3 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.		Middlesex Co.		Rahway R.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
HUDSON RIVER (Cont'd)																
MILE 18								MILE 21								
10	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	1	0	-	0	-	0	0	0	0	0	-	0	-	0
20	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
25	0	0	1	0	-	0	-	0	0	1	0	-	0	-	0	0
30	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0
35	0	0	1	0	-	0	-	0	0	0	0	-	0	-	0	0
40	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0
45	0	0	3	0	-	0	-	0	0	1	0	-	0	-	0	0
50	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0

HUDSON RIVER (Cont'd)								
MILE 25								
10	0	0	0	0	0	0	0	0
15	0	0	1	0	-	0	-	0
20	0	0	0	0	0	0	0	0
25	0	0	1	0	-	0	-	0
30	0	0	0	0	0	0	0	0
35	0	0	0	0	-	0	-	0
40	0	0	1	0	0	0	0	0
45	0	0	1	0	-	0	-	0
50	0	0	0	0	0	0	0	0

Table 4
Plant Effluent Concentrations in Parts per Billion
 New Yorkers and North River Treatment Plants

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorkers		North River		New Yorkers		North River		New Yorkers		North River		New Yorkers		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	STATION 8A				LOWER BAY				STATION 9A							
1	0	0	4	4	1	0	0	0	0	0	2	0	0	0	0	0
3	1	2	14	16	1	0	0	3	1	1	4	5	1	1	1	5
5	2	3	39	35	2	1	9	10	3	2	10	13	2	2	8	13
7	6	6	68	56	2	3	21	20	4	4	19	28	4	4	22	28
10	14	14	92	86	8	7	46	41	8	8	47	53	9	9	59	53
15	27	30	139	112	18	17	67	68	18	18	85	85	21	21	75	85
20	45	40	188	138	22	27	78	87	27	26	110	107	33	33	102	107
25	48	50	135	152	34	34	106	105	33	34	142	129	43	43	127	129
30	58	60	177	188	38	42	120	122	42	43	156	148	56	54	158	148
35	69	69	209	212	56	50	169	141	38	52	156	168	66	64	176	168
40	66	79	198	238	56	59	158	160	61	62	166	186	74	76	189	186
45	84	88	261	260	63	68	179	180	71	72	197	205	84	86	204	205
50	92	97	260	285	76	76	186	197	76	82	197	224	93	97	242	224

LOWER BAY (Cont'd)
 STATION 10A

1	1	0	2	2	3	0	0	0
3	3	1	4	4	1	0	0	0
5	2	2	5	7	2	2	6	5
7	2	2	6	10	3	3	10	14
10	3	3	8	16	7	7	28	32
15	4	5	17	28	18	17	62	56
20	8	7	46	42	27	26	75	75
25	10	10	43	58	32	35	95	94
30	15	14	75	75	40	43	106	111
35	22	19	96	95	27	53	82	130
40	28	26	117	117	56	64	147	140
45	31	35	134	140	69	75	162	170
50	42	46	159	174	48	87	134	190

LOWER BAY (Cont'd)
 STATION 110

4	1	1	1	1	0	0	1	1
6	1	1	2	2	-	0	-	1
8	1	1	3	4	-	0	-	2
11	1	1	8	8	1	1	3	3
16	4	5	32	24	-	2	-	7
21	12	10	60	47	1	2	13	13
26	12	12	60	57	-	3	-	16
31	14	14	64	63	1	3	9	18
36	15	15	67	71	-	5	-	20
41	18	17	78	78	4	4	23	22
46	18	19	82	87	-	4	-	24
49	21	20	92	91	4	4	24	26

LOWER BAY (Cont'd)

	STATION L12								STATION L14							
4	0	0	0	0	1	0	2	0	1	1	1	1	1	1	3	1
6	1	1	2	1	1	1	2	1	1	1	2	2	1	1	3	2
8	2	1	3	2	-	1	-	2	1	2	7	3	-	2	-	3
11	2	2	3	4	2	2	4	4	2	2	4	6	1	2	4	6
16	2	3	9	10	-	3	-	10	10	4	53	16	-	4	-	16
21	4	5	22	22	3	5	18	22	21	7	100	34	5	7	28	34
26	6	9	35	43	-	9	-	43	12	11	53	62	-	11	-	62
31	18	14	92	77	13	14	67	77	21	17	92	92	18	17	78	92
36	34	20	148	120	-	20	-	120	31	26	123	118	-	26	-	118
41	36	30	152	145	24	30	107	145	34	36	141	144	27	36	103	144
46	39	40	163	160	-	40	-	160	49	48	184	170	-	48	-	170
49	34	46	145	168	36	46	141	168	40	58	159	186	37	58	134	186

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (Cont'd)																
STATION L17								STATION L19								
4	2	0	1	1	2	0	3	1	1	1	3	2	1	-	1	-
6	2	0	2	3	2	0	3	3	2	2	4	5	-	2	-	5
8	2	2	6	7	-	2	-	7	2	3	5	8	-	3	-	8
11	3	1	16	17	3	4	11	17	2	4	12	15	4	4	15	15
16	7	7	45	3	-	7	-	18	4	7	31	31	-	7	-	31
21	9	12	62	58	10	12	62	58	9	11	43	50	15	11	60	50
26	18	17	75	80	-	17	-	80	18	16	75	73	-	16	-	73
31	22	23	89	102	24	23	107	102	21	21	100	98	26	21	100	98
36	31	30	127	124	-	30	-	124	28	28	117	122	-	28	-	122
41	36	37	142	142	35	37	131	142	32	34	134	148	40	34	158	148
46	44	44	159	160	-	44	-	160	42	42	166	170	-	42	-	170
49	47	48	177	169	47	48	166	169	45	47	177	182	49	47	181	182

LOWER BAY (Cont'd)																
STATION L20								STATION L21								
4	3	0	4	2	-	0	-	2	3	1	4	2	-	1	-	2
6	3	1	5	5	-	1	-	5	2	2	4	4	-	2	-	4
8	2	2	6	8	-	2	-	8	2	3	5	7	-	3	-	7
11	3	3	6	15	2	3	13	15	3	4	7	12	3	4	7	12
16	5	6	31	31	-	6	-	31	8	8	24	27	-	8	-	27
21	9	10	53	52	11	10	60	52	13	13	48	47	9	13	53	47
26	12	15	60	74	-	15	-	74	18	19	71	70	-	19	-	70
31	18	21	96	100	23	21	92	100	27	26	96	96	19	26	89	96
36	28	28	124	126	-	28	-	126	32	32	123	122	-	32	-	122
41	36	36	159	150	37	36	142	150	38	37	148	150	32	37	138	150
46	42	42	177	173	-	42	-	173	-	42	186	170	-	42	-	170
49	43	44	181	185	47	44	174	185	43	44	181	182	37	44	152	182

LOWER BAY (Cont'd)																
STATION L23								STATION L26								
4	5	0	5	2	-	0	-	2	3	0	4	1	-	1	-	3
6	1	1	4	5	-	1	-	5	2	1	4	4	-	2	-	4
8	2	2	5	8	-	2	-	8	2	2	6	7	-	2	-	7
11	2	3	9	15	2	3	8	15	2	3	8	13	3	3	22	22
16	4	6	24	29	-	6	-	29	3	5	21	27	-	6	-	27
21	12	10	58	48	9	10	48	48	8	8	46	45	12	11	60	62
26	15	15	68	68	-	15	-	68	12	12	64	66	-	17	-	66
31	21	20	92	91	20	20	99	91	18	17	85	88	40	25	170	110
36	27	27	110	115	-	27	-	115	22	23	103	111	-	33	-	111
41	31	33	123	140	31	33	142	140	30	29	131	133	39	43	159	158
46	38	40	152	160	-	40	-	160	34	35	152	156	-	52	-	156
49	43	45	166	173	43	45	181	173	38	38	166	167	45	56	177	189

RARITAN CHANNEL																
MILE 40																
4	2	0	1	1	2	1	4	1	1	0	4	1	-	1	-	4
6	2	1	3	5	3	2	9	3	2	2	9	4	-	2	-	9
8	2	2	6	10	-	3	-	16	-	-	-	-	-	-	-	-
11	3	3	19	18	4	4	28	28	-	-	-	-	-	-	-	-
16	6	6	37	37	-	8	-	52	-	-	-	-	-	-	-	-
21	9	11	51	58	17	14	82	79	-	-	-	-	-	-	-	-
26	17	17	82	82	-	22	-	105	-	-	-	-	-	-	-	-
31	24	25	107	106	27	31	121	130	-	-	-	-	-	-	-	-
36	31	34	127	133	-	40	-	155	-	-	-	-	-	-	-	-
41	40	42	163	159	48	50	177	180	-	-	-	-	-	-	-	-
46	45	48	177	181	-	56	-	192	-	-	-	-	-	-	-	-
49	47	51	191	194	55	59	194	200	-	-	-	-	-	-	-	-

Table 4 (Cont'd)

Cycles	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
JAMAICA BAY																
STATION J0																
6	2	1	4	5	-	1	-	3								
8	2	2	6	6	2	2	5	6								
11	2	3	8	12	3	3	13	12								
16	4	6	21	24	-	6	-	24								
21	7	9	45	40	9	9	44	10								
26	14	13	53	56	-	13	-	56								
31	18	18	71	78	19	18	89	78								
36	23	24	96	101	-	24	-	101								
41	29	30	117	123	38	30	156	123								
46	35	37	141	147	-	37	-	147								
49	39	41	152	160	38	41	145	160								

JAMAICA BAY (Cont'd)															
STATION J1				STATION J2											
6	2	2	5	5	-	1	-	2	2	7	7	-	1	-	2
8	3	3	8	9	2	2	6	7	3	3	6	12	2	2	5
11	3	4	14	16	3	3	12	12	4	4	24	20	3	3	9
16	6	7	40	29	-	6	-	23	7	7	8	34	-	5	-
21	12	11	53	45	9	9	57	37	11	11	50	50	8	7	31
26	15	16	60	65	-	13	-	52	17	16	71	70	-	9	-
31	21	22	92	88	15	17	64	72	22	22	96	92	12	12	50
36	27	29	107	112	-	22	-	94	26	28	110	116	-	16	-
41	36	36	138	138	31	28	116	116	33	34	134	138	23	21	82
46	44	44	159	163	-	35	-	140	41	41	159	160	-	26	-
49	46	49	170	180	32	38	123	150	43	45	167	170	27	30	99

JAMAICA BAY (Cont'd)															
STATION J3				STATION J11											
6	2	2	4	4	-	1	-	2	2	1	4	4	-	1	-
8	2	2	6	7	2	2	4	4	2	2	6	5	2	1	6
11	3	3	13	12	3	2	6	7	2	2	7	7	3	2	5
16	4	5	23	22	-	3	-	13	4	3	8	16	-	3	-
21	7	7	43	34	4	5	18	20	3	4	14	17	3	4	11
26	9	10	59	48	-	7	-	30	4	6	19	24	-	5	-
31	15	13	54	64	9	9	46	40	6	7	33	33	6	6	27
36	18	18	75	80	-	12	-	51	9	10	49	43	-	8	-
41	24	24	92	96	16	15	64	63	12	12	62	58	9	11	50
46	29	30	107	114	-	19	-	74	15	15	74	74	-	13	-
49	31	35	123	124	19	22	71	82	18	16	84	86	15	15	71

KILL VAN KULL								ARTHUR KILL RIVER							
MILE 3								MILE 6							
2	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0
4	2	2	36	34	-	0	-	2	1	1	8	11	1	1	11
6	5	8	54	60	-	0	-	13	3	2	30	17	1	2	17
8	12	12	92	78	2	2	18	26	6	2	57	23	2	3	23
11	23	23	124	107	8	8	53	43	4	6	30	32	5	8	32
16	40	38	170	160	27	17	78	76	7	7	47	50	13	13	50
21	55	53	192	204	27	27	114	109	11	11	57	70	22	22	64
26	69	68	237	250	34	37	134	140	13	16	66	89	34	31	89
31	82	82	283	290	48	48	191	170	18	21	77	110	43	41	120
36	92	94	303	320	69	58	209	196	44	27	176	130	51	51	161
41	102	104	335	345	74	70	208	220	38	34	144	150	58	62	147
46	110	110	356	360	76	78	229	232	41	41	147	160	69	71	158
49	113	113	345	360	79	82	240	240	41	46	143	170	76	76	175

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
ARTHUR KILL RIVER (CONT'D)																
MILE 9													MILE 12			
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
11	0	0	1	1	3	3	30	23	0	0	0	0	1	1	4	3
16	0	0	3	3	9	9	54	50	0	0	0	0	2	2	7	7
21	0	0	5	5	16	16	66	72	0	0	1	1	2	2	11	10
26	0	0	8	8	23	23	76	94	0	0	3	3	3	3	6	13
31	1	1	9	13	32	31	102	116	1	1	8	6	5	5	15	17
36	4	3	32	21	40	40	136	135	2	2	11	12	7	7	23	23
41	4	4	35	31	47	48	148	150	3	3	17	20	9	9	29	29
46	6	6	41	45	56	57	162	162	5	5	31	28	12	12	38	37
49	7	7	48	58	61	62	151	168	7	6	39	32	13	14	35	42
ARTHUR KILL RIVER (CONT'D)																
MILE 15													MILE 18			
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
21	0	0	1	1	0	0	3	2	0	0	0	0	0	0	0	0
26	0	0	2	3	1	1	4	4	0	0	3	2	2	1	2	2
31	0	0	10	7	2	2	7	7	0	0	5	6	2	2	4	4
36	2	2	15	15	2	3	10	12	1	1	14	12	2	4	6	7
41	5	5	36	30	3	4	16	17	4	3	33	24	5	5	14	11
46	9	9	55	56	8	6	21	21	5	7	36	44	9	8	18	18
49	12	12	70	78	7	7	22	22	12	11	67	61	9	10	22	24
NEWARK BAY																
MILE 2													MILE 4			
4	1	1	9	14	0	0	0	0	0	0	4	4	0	0	0	0
6	3	4	48	42	0	0	2	1	1	12	12	0	0	0	0	0
8	8	8	65	70	0	0	6	2	2	21	23	0	0	0	0	0
11	12	14	89	92	2	2	17	17	6	6	44	44	1	1	4	5
16	26	25	153	122	6	6	40	40	13	13	78	78	3	3	22	23
21	37	37	188	150	9	11	60	66	25	22	121	117	6	7	48	45
26	54	50	187	183	17	17	96	94	35	31	163	150	13	11	64	70
31	63	63	209	217	29	25	143	127	45	42	195	188	21	17	107	96
36	74	76	251	250	36	34	170	160	53	53	219	220	25	25	125	128
41	84	88	283	290	45	44	198	192	63	63	230	245	35	33	166	155
46	95	98	303	325	49	55	213	222	74	74	240	267	39	43	174	180
49	102	104	335	345	55	62	226	240	79	79	261	277	43	50	188	198
HACKENSACK RIVER																
MILE 3													MILE 6			
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0
8	1	1	9	9	0	0	0	1	0	0	1	1	0	0	0	0
11	2	2	17	21	0	0	5	5	1	1	4	4	0	0	0	0
16	7	6	51	52	0	0	14	2	3	15	16	0	0	0	0	0
21	13	13	85	87	2	2	15	25	7	8	40	40	0	0	4	4
26	21	21	124	124	5	5	38	11	11	71	67	0	0	0	0	10
31	31	29	170	160	9	9	58	52	18	16	96	93	2	2	22	21
36	38	38	195	190	13	13	67	24	23	114	120	4	4	35	35	
41	45	47	224	227	17	17	82	82	31	30	142	145	8	8	49	51
46	56	56	247	250	20	20	98	37	40	163	170	11	11	65	65	
49	61	60	262	267	22	22	100	105	44	44	181	182	12	12	72	72

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
HACKENSACK RIVER (Cont'd)																
MILE 10								MILE 15								
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
8	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	2	2	-	0	-	0	0	0	0	0	-	0	-	0
21	0	0	6	6	0	0	1	1	0	0	0	0	0	0	0	0
26	1	1	12	12	-	0	-	4	0	0	1	1	-	0	-	0
31	2	2	22	22	1	1	10	10	0	0	3	3	0	0	0	0
38	4	4	33	35	-	2	-	18	0	0	5	5	-	0	-	1
41	8	7	52	52	4	4	26	27	1	1	8	8	0	0	0	4
46	11	11	67	89	-	5	-	35	2	2	12	12	-	0	-	5
49	14	14	82	79	6	6	39	38	2	2	14	14	1	0	6	6
PASSAIC RIVER																
MILE 3								MILE 6								
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
8	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
11	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
16	1	1	11	13	-	0	-	4	0	0	0	0	-	0	-	0
21	4	3	24	24	1	1	10	11	0	0	3	3	0	0	0	0
26	9	8	43	37	-	2	-	17	1	1	8	8	-	0	-	1
31	16	15	46	51	5	5	26	25	2	2	5	14	1	1	4	4
36	17	22	53	67	-	10	-	35	4	5	9	21	-	2	-	8
41	29	29	84	84	14	14	52	48	9	8	31	30	4	4	13	12
46	33	33	102	98	-	17	-	64	12	12	43	40	-	5	-	16
49	33	35	102	109	18	18	57	74	14	15	43	47	5	5	15	18
PASSAIC RIVER (Cont'd)																
MILE 10								MILE 15								
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
8	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
31	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
36	0	1	2	4	-	0	-	2	0	0	0	0	-	0	-	0
41	3	2	11	7	0	0	5	4	0	0	0	0	0	0	0	0
46	3	3	13	11	-	0	-	7	0	0	0	0	-	0	-	0
49	3	4	9	13	1	0	7	9	0	0	0	0	0	0	0	0
UPPER BAY																
STATION 5								STATION 11								
1	0	1	2	2	0	1	2	2	0	1	2	2	0	0	3	2
3	-	2	-	16	1	2	13	19	-	2	-	22	1	1	4	17
5	3	4	26	37	3	4	44	47	5	5	53	53	2	2	14	36
7	5	6	85	65	5	8	36	80	8	9	61	82	6	5	57	61
10	12	13	92	103	19	16	128	128	18	18	121	122	10	11	85	94
15	29	30	164	147	37	37	195	171	39	41	209	162	20	28	125	130
20	58	49	209	180	56	58	198	210	58	58	209	200	35	42	170	160
25	81	62	209	212	71	72	261	247	89	72	230	240	45	52	158	180
30	74	73	229	242	87	84	304	280	82	85	272	277	71	62	232	220
35	95	83	282	278	97	95	335	318	100	95	324	311	76	72	264	250
40	95	93	303	305	108	108	367	350	108	106	367	350	88	82	275	282
45	102	102	314	335	110	118	366	380	118	117	377	389	89	91	296	310
50	115	112	356	356	126	127	388	410	123	125	388	416	100	100	239	339

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
UPPER BAY (Cont'd)																
STATION 13												STATION 13A				
1	0	0	2	2	0	0	2	2	0	0	1	0	0	0	0	0
3	1	1	9	12	2	2	35	47	2	1	8	5	1	1	30	30
5	3	3	36	30	6	6	76	88	2	3	12	12	6	6	65	66
7	4	7	32	50	13	11	117	120	3	5	27	27	13	13	103	110
10	15	16	100	80	26	23	171	150	9	10	51	60	25	26	146	152
15	33	33	170	110	45	46	167	190	26	25	117	120	45	46	206	200
20	43	44	124	132	61	61	230	227	40	40	163	157	63	64	230	240
25	56	53	177	156	74	74	251	260	48	49	188	185	76	78	261	271
30	61	61	209	180	87	87	293	295	56	57	212	208	89	90	304	304
35	63	68	187	200	100	99	335	320	63	63	230	229	100	100	335	330
40	71	75	208	221	110	111	366	350	69	70	237	245	110	110	366	360
45	79	82	229	242	120	122	366	370	79	75	251	260	120	120	377	380
50	89	88	261	260	131	133	387	392	79	80	240	270	128	128	388	400
UPPER BAY (Cont'd)																
STATION 13B												STATION 14A				
1	0	0	2	2	0	0	0	0	1	1	19	19	1	1	8	8
3	1	1	11	15	1	2	30	30	3	4	101	70	3	3	47	30
5	3	3	22	38	4	4	54	63	13	10	135	128	4	6	40	50
7	4	6	44	67	11	9	103	103	16	19	160	165	15	9	135	62
10	16	14	110	103	23	20	153	140	35	37	167	201	13	14	71	74
15	31	31	163	140	35	39	124	181	61	61	252	250	18	19	89	92
20	43	45	167	170	58	59	177	219	71	78	293	292	42	24	177	109
25	56	56	187	200	76	74	240	250	93	92	367	335	27	29	107	123
30	66	66	230	225	87	86	283	280	108	105	399	370	42	35	156	141
35	76	75	251	250	97	96	314	309	120	118	430	410	41	41	148	157
40	82	83	261	272	105	105	346	335	120	130	430	445	48	48	174	170
45	92	92	282	292	97	113	292	360	146	142	483	480	42	54	138	188
50	100	100	314	310	120	120	356	380	141	151	440	501	63	60	197	197
UPPER BAY (Cont'd)																
STATION 15A												STATION 16				
1	1	0	51	30	3	0	158	88	3	3	74	60	4	6	24	73
3	4	2	86	78	21	11	286	225	5	8	105	100	5	14	144	160
5	9	6	129	110	31	27	295	330	7	14	83	118	17	22	125	212
7	17	12	146	140	61	46	423	420	11	20	82	135	19	33	136	250
10	29	25	175	160	69	71	487	520	34	30	156	155	63	51	326	295
15	46	49	223	196	100	99	449	675	71	48	304	190	79	82	368	360
20	69	65	227	220	171	122	1249	810	61	66	230	228	120	118	484	415
25	84	80	229	245	152	147	1367	950	82	79	304	261	149	141	426	475
30	95	93	250	265	176	170	1483	1100	82	90	304	300	162	160	578	522
35	108	107	282	282	136	190	784	1235	95	100	324	335	175	180	599	580
40	123	120	281	295	222	216	1423	1398	115	110	398	370	191	197	630	620
45	133	131	258	303	222	238	1539	1505	120	118	409	400	215	211	650	660
50	133	143	237	305	246	255	1538	1630	120	127	366	430	215	223	639	697
UPPER BAY (Cont'd)																
STATION 17												STATION 18				
1	3	0	36	30	5	0	12	9	1	0	1	4	0	0	4	8
3	3	4	54	80	2	2	22	25	-	1	-	16	1	2	32	41
5	7	11	93	130	3	3	44	38	2	2	26	37	10	9	114	90
7	18	22	189	160	5	5	40	48	5	5	54	60	14	20	117	144
10	43	40	310	197	8	8	40	59	11	10	82	92	39	39	216	198
15	56	60	241	245	15	14	71	74	25	25	135	125	63	61	252	252
20	74	74	283	290	21	20	92	89	38	39	184	155	69	76	262	298
25	87	86	325	330	25	26	103	103	51	50	155	183	97	90	346	332
30	100	98	357	365	31	31	120	118	63	61	198	212	108	104	389	370
35	113	109	409	400	40	36	146	130	74	71	240	240	113	116	398	400
40	123	120	441	430	37	40	138	142	82	82	272	270	120	127	420	425
45	131	130	451	456	38	43	127	153	92	93	292	295	139	139	440	445
50	136	140	429	475	45	45	148	165	102	104	303	320	141	148	440	460

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
1	0	0	4	9	1	0	3	9	1	0	2	2	0	0	6	12
3	2	2	20	42	2	2	39	50	1	1	12	14	2	2	58	50
5	5	7	72	62	6	7	83	90	3	3	32	32	8	8	83	90
7	12	15	124	82	15	15	121	125	5	6	51	52	26	16	175	122
10	31	26	113	115	24	26	149	180	12	13	82	78	39	32	178	178
15	45	45	167	170	47	45	238	280	27	24	142	120	63	60	262	262
20	63	63	219	225	63	63	495	380	39	37	181	166	92	88	346	345
25	79	80	272	280	76	80	550	480	50	50	205	205	123	112	441	440
30	97	95	335	327	89	95	625	587	63	63	198	238	131	133	462	480
35	115	108	398	370	102	108	680	650	74	75	240	264	157	150	535	520
40	118	118	409	400	105	118	716	720	84	87	272	282	154	161	525	550
45	118	122	377	415	110	122	734	760	95	95	303	295	154	169	482	560
50	126	125	388	425	120	125	754	795	102	102	324	305	164	170	493	560
HUDSON RIVER																
UPPER BAY (Cont'd)								MILE -15								
1	1	1	2	3	0	0	5	10	0	0	0	0	0	0	0	0
3	-	2	16	2	2	4	57	50	0	0	0	0	0	1	1	0
5	3	4	37	37	9	10	93	98	1	1	2	2	1	1	4	5
7	7	7	51	64	21	18	139	138	2	1	4	4	2	2	12	10
10	17	14	92	101	32	33	170	179	2	2	6	6	3	3	18	17
15	31	32	159	140	56	56	230	230	5	4	15	12	9	6	45	31
20	46	46	195	173	69	72	262	280	7	7	27	21	13	11	61	45
25	58	57	177	205	92	87	346	325	12	11	42	33	18	17	64	60
30	66	68	219	232	105	102	378	370	17	17	56	47	27	25	78	78
35	76	78	251	262	115	118	409	410	19	23	50	62	27	33	78	94
40	84	88	283	290	146	132	494	450	26	30	57	77	32	41	91	109
45	95	98	314	320	136	148	472	495	37	37	77	88	38	48	102	121
50	108	108	335	340	160	161	493	522	42	42	95	95	51	51	137	134
HUDSON RIVER (Cont'd)																
MILE -12								MILE -9								
1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	2
3	1	0	2	2	1	1	1	2	2	1	4	5	1	1	5	10
5	0	1	5	5	1	4	8	8	2	2	4	10	4	3	33	24
7	1	1	7	7	2	7	22	20	3	3	15	14	5	7	44	44
10	1	2	8	10	13	13	53	45	9	4	54	20	17	16	71	80
15	2	4	13	16	23	24	64	76	5	6	31	29	36	35	116	116
20	6	7	26	24	41	33	106	99	5	9	36	39	51	50	144	141
25	8	11	33	34	53	43	133	122	10	12	43	52	63	62	169	160
30	14	15	52	48	58	54	147	147	16	17	60	67	74	73	186	180
35	19	21	60	67	69	66	176	170	21	22	82	83	84	84	196	200
40	33	28	106	90	76	80	186	200	30	29	109	109	95	94	209	216
45	38	38	123	120	84	94	200	228	37	37	134	130	105	104	224	230
50	46	49	145	156	100	109	249	255	58	46	205	157	110	114	237	240
HUDSON RIVER (Cont'd)																
MILE 2				MILE 3												
1	0	0	12	20	1	1	113	75	0	2	43	30	2	5	110	40
3	5	6	74	72	17	20	223	225	8	7	106	100	37	26	155	160
5	7	18	88	130	34	43	351	375	21	18	191	170	57	53	328	310
7	43	33	212	170	72	72	413	475	32	32	148	220	90	88	444	520
10	41	53	180	217	111	108	518	600	36	57	148	270	121	131	518	840
15	75	74	285	300	145	145	624	790	83	86	317	330	169	185	1194	1150
20	93	92	237	385	169	175	1314	940	109	109	391	385	200	209	1362	1362
25	116	110	400	490	216	202	1481	1110	121	127	432	432	255	238	1599	1505
30	153	128	495	600	247	230	1660	1300	161	143	580	480	263	263	1659	1630
35	153	146	984	730	263	260	1659	1485	145	161	506	510	287	287	1708	1750
40	161	162	1014	885	247	245	1660	1650	169	178	548	530	325	310	1766	1800
45	169	180	1014	1010	295	310	1767	1810	200	192	589	595	333	332	1885	1885
50	161	198	904	1195	317	330	1596	1990	200	205	578	607	333	340	1655	1900

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 4										MILE 5						
1	3	4	79	84	5	6	129	110	3	5	111	140	3	7	108	150
3	21	21	180	170	46	38	288	390	33	26	234	215	51	44	308	400
5	39	45	258	250	79	78	478	895	30	50	223	250	90	88	499	870
7	50	88	185	310	108	118	968	940	48	72	245	325	121	128	987	890
10	98	96	434	385	147	183	1136	1190	105	96	509	370	183	171	1135	1100
15	123	136	487	510	218	213	1482	1430	100	123	445	490	194	224	1383	1360
20	147	150	550	840	271	250	1659	1610	144	148	572	820	273	265	1709	1800
25	188	171	877	780	297	285	1768	1790	171	170	855	760	304	300	1828	1800
30	210	192	1483	940	312	312	1887	1900	194	190	1423	925	335	330	2006	1990
35	194	213	1253	1100	335	342	1946	2000	183	210	1075	1100	359	355	2115	2115
40	233	230	1381	1298	359	382	2005	2040	225	227	1382	1300	383	370	2064	2275
45	249	250	1481	1481	383	383	2064	2095	249	245	1541	1495	398	390	2115	2400
50	241	260	1421	1660	383	395	1884	2100	249	260	1481	1705	398	403	2003	2480
HUDSON RIVER (Cont'd)																
MILE 6										MILE 7						
1	2	4	104	50	1	10	118	130	2	12	85	42	7	14	124	120
3	10	23	149	170	57	64	297	450	14	22	177	160	73	77	295	430
5	31	45	213	290	102	110	477	700	18	43	170	310	128	130	443	710
7	73	64	403	400	125	146	967	940	58	64	339	460	151	170	964	920
10	81	84	457	505	169	182	1135	1130	110	85	518	650	201	210	1132	1100
15	104	108	499	650	232	230	1381	1385	115	113	905	830	284	258	1309	1390
20	148	131	593	800	264	265	1600	1585	141	138	1015	990	303	300	1537	1540
25	122	152	967	930	342	300	1828	1740	224	182	1421	1100	334	334	1765	1710
30	217	173	1542	1060	334	335	1888	1890	170	187	1193	1210	366	365	1884	1875
35	178	195	1254	1200	368	385	2005	2000	201	212	1312	1325	397	395	2002	2000
40	201	215	1383	1330	397	395	2003	2050	217	238	1381	1400	421	421	2001	2100
45	232	232	1421	1444	413	410	2082	2160	201	260	1192	1490	452	440	2109	2190
50	256	253	1540	1570	413	432	1882	2200	311	282	1478	1530	452	458	1879	2210
HUDSON RIVER (Cont'd)																
MILE 8										MILE 9						
1	-	0	-	-	53	41	147	110	3	4	85	88	99	88	119	110
3	28	28	223	74	84	111	142	390	20	17	170	170	110	160	218	230
5	47	55	362	300	166	186	409	850	42	41	297	900	217	219	383	400
7	58	78	381	510	224	209	961	910	68	88	391	485	264	280	500	600
10	71	100	413	690	224	250	1131	1110	89	112	466	710	311	300	1006	910
15	122	129	539	1075	326	307	1306	1375	151	151	1194	1000	334	360	1185	1200
20	174	154	1253	1240	342	354	1535	1550	188	180	1253	1200	389	410	1413	1380
25	178	180	1383	1375	374	398	1703	1700	217	200	1481	1330	444	450	1590	1545
30	201	205	1482	1480	421	430	1821	1810	240	215	1600	1440	478	485	1648	1850
35	264	228	1859	1580	444	468	1880	1910	240	230	1600	1510	484	515	1758	1750
40	264	250	1599	1675	468	495	1939	2000	224	238	1421	1600	499	540	1877	1810
45	264	273	1859	1720	554	509	2054	2050	232	245	1480	1640	554	560	1874	1875
50	240	288	1360	1760	492	535	1817	2090	240	247	1360	1675	562	570	1758	1900
HUDSON RIVER (Cont'd)																
MILE 10										MILE 11						
1	12	12	2362	75	171	110	52	75	4	5	97	90	139	150	38	90
3	18	22	150	220	163	190	199	200	37	18	234	230	147	185	197	230
5	34	34	2801	320	225	232	268	320	46	40	352	315	218	230	238	315
7	45	48	405	395	273	285	286	395	84	85	383	370	327	270	284	370
10	72	87	371	490	304	300	478	490	100	100	477	460	390	315	430	460
15	87	100	1079	690	414	355	579	660	125	140	540	600	429	385	568	600
20	139	130	1196	830	406	410	1183	830	202	170	664	760	481	445	1080	750
25	225	152	1362	1010	429	450	1352	1010	218	200	1422	915	500	510	1178	915
30	218	173	1542	1240	485	485	1469	1240	233	225	1531	1100	555	560	1345	1100
35	187	190	2654	1475	508	520	1538	1475	257	250	1600	1295	524	820	1527	1295
40	202	207	1073	1710	532	550	1648	1710	285	275	1540	1500	547	670	1488	1600
45	233	220	1421	2000	579	575	1644	2000	289	295	1659	1700	765	710	1515	1700
50	218	230	6282	2260	571	590	1644	2250	319	315	1827	1900	720	750	1577	1900

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 12													MILE 13			
1	5	7	122	100	64	62	7	25	8	11	104	120	61	60	2	9
3	38	33	172	210	126	140	156	80	56	45	191	300	149	150	63	47
5	64	64	288	285	218	187	61	125	87	80	394	470	181	200	88	100
7	87	95	340	340	210	220	140	150	102	120	457	590	251	232	163	150
10	123	128	424	410	257	260	199	180	118	150	1023	710	275	270	159	203
15	171	165	538	530	335	310	220	225	165	192	1079	900	337	320	274	265
20	218	200	622	660	351	360	273	270	227	230	1368	1070	369	365	337	315
25	257	230	1249	800	406	405	324	320	259	260	1600	1233	400	405	478	360
30	281	260	1248	950	485	440	438	368	291	285	1364	1410	439	440	344	400
35	281	290	1307	1110	485	480	470	410	314	315	1480	1595	455	470	396	432
40	304	315	1364	1280	493	515	469	450	353	335	1595	1750	471	490	438	465
45	335	345	1479	1450	500	540	490	500	353	355	1712	1900	502	510	480	490
50	351	365	1420	1610	524	560	479	535	361	370	1945	2050	502	520	512	520
HUDSON RIVER (Cont'd)																
MILE 14													MILE 15			
1	35	26	140	130	26	40	0	0	64	62	139	140	72	62	11	9
3	66	68	289	350	107	100	36	42	93	128	265	265	121	128	29	30
5	92	112	447	600	157	160	62	80	152	175	359	360	158	175	37	58
7	149	150	906	770	204	190	120	112	205	205	421	460	276	205	88	88
10	185	185	1021	940	212	230	141	141	228	242	516	620	213	242	105	118
15	259	230	1201	1165	291	275	180	182	300	290	956	880	354	290	173	151
20	283	265	1317	1340	321	318	233	218	330	335	1130	1110	386	335	187	182
25	306	300	1492	1500	337	350	253	253	362	375	1304	1315	401	375	197	210
30	353	330	1666	1630	385	380	262	288	409	410	1477	1485	440	410	216	235
35	345	358	1725	1760	400	410	336	320	425	445	1593	1600	448	445	248	258
40	369	385	1725	1875	424	430	367	355	456	470	1591	1650	425	470	260	280
45	408	405	1782	1940	447	450	387	387	503	490	1706	1700	464	490	290	300
50	455	420	963	2000	408	460	657	412	496	510	1530	1725	496	510	320	310
HUDSON RIVER (Cont'd)																
MILE 16													MILE 17			
1	38	38	179	200	28	28	0	0	35	30	94	94	8	12	0	0
3	85	90	288	320	108	84	12	14	96	96	159	160	45	49	3	4
5	139	140	413	385	119	130	35	42	148	150	211	222	81	90	15	15
7	173	180	432	450	165	162	82	72	198	198	379	295	140	124	44	30
10	205	215	485	538	221	196	116	116	245	240	409	400	151	160	52	54
15	276	265	577	690	322	240	186	155	323	295	544	580	198	195	75	80
20	307	305	608	840	354	278	188	192	355	340	1130	785	261	225	115	97
25	346	345	660	1010	330	310	210	225	394	385	1128	950	237	252	102	117
30	386	375	1653	1200	354	340	252	260	441	425	1242	1130	293	280	149	134
35	401	405	1652	1400	378	370	294	295	457	465	1300	1290	316	300	169	151
40	432	432	1767	1600	386	390	326	325	497	495	1415	1410	316	320	180	170
45	472	456	1882	1775	409	410	357	355	528	520	1238	1500	323	335	176	187
50	456	470	1824	1990	401	425	368	380	528	540	1238	1540	347	345	168	201
HUDSON RIVER (Cont'd)																
MILE 18													MILE 19			
1	19	28	27	30	4	4	1	0	36	40	14	20	0	0	0	0
3	99	100	78	96	39	28	3	3	115	115	87	84	35	25	4	4
5	167	155	179	167	63	58	13	11	151	180	196	155	48	55	13	15
7	183	195	199	225	86	90	22	23	214	215	218	225	115	86	62	33
10	237	236	260	320	120	125	45	44	261	260	238	300	104	120	56	67
15	308	290	418	485	161	161	67	70	339	315	384	370	159	159	121	117
20	355	335	897	660	206	193	94	90	418	365	412	440	175	186	148	146
25	387	375	896	810	222	220	107	112	387	410	478	500	206	211	187	169
30	410	415	952	960	261	248	141	132	465	450	592	560	237	235	175	188
35	433	455	1010	1095	285	270	161	155	457	485	1009	620	261	256	195	203
40	465	485	1067	1185	293	293	182	180	457	515	1184	660	269	280	227	218
45	504	510	1240	1230	293	312	171	200	520	540	1181	705	293	295	236	229
50	520	530	1239	1250	316	325	181	223	559	560	1179	740	277	305	237	235

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 20								MILE 21								
1	19	20	12	10	30	0	0	0	22	40	5	7	0	0	0	0
3	84	80	64	50	15	14	1	3	128	111	32	32	28	10	1	3
5	105	130	99	100	42	40	16	15	152	160	57	70	-	27	-	14
7	180	170	167	160	61	67	26	32	176	190	102	118	49	49	31	32
10	207	209	198	220	95	97	65	62	223	220	178	170	71	79	61	60
15	254	255	159	287	128	132	91	94	302	270	236	220	116	115	87	87
20	348	300	448	340	168	160	124	117	332	310	245	260	136	140	104	106
25	348	335	416	390	192	185	158	136	340	345	223	300	144	161	122	122
30	364	365	415	430	215	205	129	152	395	380	349	330	176	182	148	140
35	388	395	435	470	215	225	136	170	380	410	328	360	199	200	162	153
40	403	420	488	510	254	240	198	184	434	435	400	385	230	217	167	170
45	419	440	529	538	223	252	186	198	450	455	399	410	230	230	181	180
50	474	455	559	560	238	262	206	209	474	475	419	425	246	241	181	191
HUDSON RIVER (Cont'd)																
MILE 22				MILE 23												
1	35	34	1	5	0	0	0	0	26	28	2	3	0	0	0	0
3	77	100	8	23	9	8	1	2	42	77	12	16	4	4	0	0
5	144	170	43	50	17	19	3	8	139	126	40	37	9	10	1	2
7	192	220	76	79	36	36	20	19	165	163	58	58	19	21	8	5
10	324	270	120	118	57	62	31	35	176	198	78	87	32	43	13	15
15	356	320	161	143	95	94	63	63	254	238	117	115	87	77	50	34
20	356	356	186	168	121	116	98	94	278	269	144	138	103	96	46	46
25	395	390	156	187	134	135	115	115	356	298	162	158	110	112	53	58
30	388	410	178	200	152	150	135	132	324	319	182	178	116	123	70	70
35	403	425	199	215	175	165	170	150	324	335	192	197	131	136	87	83
40	411	440	241	225	165	180	168	165	348	348	223	212	144	145	109	95
45	442	445	240	235	172	191	177	180	340	355	199	228	144	152	112	110
50	434	445	218	237	193	202	197	190	364	360	204	240	160	158	118	121
HUDSON RIVER (Cont'd)																
MILE 24				MILE 26												
1	22	22	0	0	0	0	0	0	6	8	1	1	-	-	-	-
3	54	78	11	15	10	3	0	0	29	32	5	9	-	-	-	-
5	137	137	44	43	9	11	3	3	55	62	20	22	-	-	-	-
7	129	180	64	64	20	20	7	7	98	93	43	41	-	-	-	-
10	193	225	98	86	33	35	16	17	122	125	54	71	-	-	-	-
15	295	265	108	108	61	61	42	43	153	159	98	103	-	-	-	-
20	295	290	130	126	83	86	62	62	193	187	132	125	-	-	-	-
25	318	310	140	140	96	100	75	76	208	213	146	143	-	-	-	-
30	318	318	150	154	117	112	99	92	263	235	172	160	-	-	-	-
35	325	320	172	165	124	120	117	106	263	256	178	178	-	-	-	-
40	310	325	161	176	132	127	126	120	279	275	188	190	-	-	-	-
45	325	336	172	183	124	130	113	132	279	290	195	202	-	-	-	-
50	341	333	192	190	132	131	141	142	224	302	170	212	-	-	-	-
HUDSON RIVER (Cont'd)																
MILE 28				MILE 30												
1	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
3	7	11	8	5	-	-	-	-	0	0	0	0	-	-	-	-
5	23	26	9	13	-	-	-	-	6	7	2	3	-	-	-	-
7	54	43	20	24	-	-	-	-	15	13	5	8	-	-	-	-
10	72	65	42	42	-	-	-	-	21	22	15	16	-	-	-	-
15	54	85	39	63	-	-	-	-	52	38	31	28	-	-	-	-
20	114	105	89	82	-	-	-	-	71	54	52	41	-	-	-	-
25	137	122	117	100	-	-	-	-	47	70	101	55	-	-	-	-
30	148	140	135	118	-	-	-	-	96	87	69	69	-	-	-	-
35	145	160	145	137	-	-	-	-	88	103	73	82	-	-	-	-
40	145	177	152	157	-	-	-	-	98	116	91	94	-	-	-	-
45	161	194	173	176	-	-	-	-	117	126	108	103	-	-	-	-
50	193	210	192	195	-	-	-	-	114	132	105	110	-	-	-	-

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yonkers		North River		New Yonkers		North River		New Yonkers		North River		New Yonkers		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
	HUDSON RIVER (Cont'd)															
	MILE 32								MILE 34							
1	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
3	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
5	1	0	0	2	-	-	-	-	0	0	0	0	-	-	-	-
7	7	7	6	5	-	-	-	-	6	3	0	3	-	-	-	-
10	12	12	6	9	-	-	-	-	5	6	6	7	-	-	-	-
15	29	21	19	16	-	-	-	-	12	11	9	13	-	-	-	-
20	43	30	25	24	-	-	-	-	23	16	22	19	-	-	-	-
25	47	38	30	31	-	-	-	-	23	22	23	26	-	-	-	-
30	57	47	40	38	-	-	-	-	37	28	34	33	-	-	-	-
35	60	54	47	44	-	-	-	-	35	35	39	40	-	-	-	-
40	-	60	-	50	-	-	-	-	41	40	47	47	-	-	-	-
45	54	64	46	53	-	-	-	-	45	45	53	52	-	-	-	-
50	62	66	53	55	-	-	-	-	38	49	39	56	-	-	-	-

Cycle	HUDSON RIVER (Cont'd)								HARLEM RIVER							
	MILE 33								MILE 3							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
1	0	0	0	0	-	-	-	-	50	-	3	-	0	-	0	
3	0	0	0	0	-	-	-	-	191	191	51	49	3	6	7	
5	0	0	0	0	-	-	-	-	222	250	65	82	6	12	14	
7	0	0	0	0	-	-	-	-	286	286	133	110	10	9	21	
10	0	0	0	0	-	-	-	-	324	324	195	135	9	13	28	
15	0	0	0	0	-	-	-	-	395	380	170	174	18	18	37	
20	0	0	0	0	-	-	-	-	380	420	203	210	22	22	46	
25	0	0	2	2	-	-	-	-	395	450	235	242	25	26	54	
30	3	0	3	2	-	-	-	-	474	480	295	278	32	31	63	
35	0	0	1	2	-	-	-	-	500	-	310	36	36	74	73	
40	1	0	2	3	-	-	-	-	515	334	342	41	41	84	82	
45	1	0	3	3	-	-	-	-	525	375	375	35	46	70	91	
50	1	0	3	3	-	-	-	-	535	218	400	37	50	74	100	

Cycle	HARLEM RIVER (Cont'd)							
	MILE 6							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
1	-	150	-	17	-	0	-	2
3	254	240	66	66	5	6	13	20
5	270	280	90	108	10	13	34	37
7	301	310	153	137	25	23	57	50
10	364	360	151	165	23	33	42	62
15	419	400	180	203	45	44	81	79
20	419	440	266	240	50	54	94	94
25	450	480	296	270	61	62	108	108
30	513	510	314	300	74	71	121	121
35	-	530	-	330	82	79	146	135
40	490	550	358	358	87	86	154	147
45	560	555	387	378	95	93	160	158
50	513	560	314	397	95	100	153	168

Cycle	FAST RIVER															
	MILE 3								MILE 5							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
2	1	1	50	50	0	0	14	14	1	2	86	70	0	0	39	9
4	6	6	86	95	0	0	17	18	7	9	111	130	1	1	23	12
6	13	13	121	121	2	2	24	21	15	17	139	157	1	1	32	13
8	26	24	207	140	2	2	37	24	25	27	181	176	1	2	27	15
11	37	41	135	160	5	5	43	28	39	40	209	195	5	2	72	17
16	59	59	187	187	-	-	-	34	56	59	209	215	5	3	51	20
21	79	73	229	212	8	8	39	40	76	73	218	228	4	4	39	24
26	87	86	208	230	16	10	75	47	84	86	251	236	1	4	26	27
31	100	100	250	250	11	12	42	53	95	96	282	245	4	4	18	30
36	110	112	238	262	-	16	-	60	105	108	260	254	-	5	-	32
41	120	123	259	273	17	18	60	66	115	118	259	264	6	5	31	35
46	131	134	248	282	28	21	87	71	126	127	238	273	4	5	17	37
49	141	141	194	287	16	23	42	74	128	132	184	280	4	5	19	38

Table 4 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
EAST RIVER (Cont'd)																
MILE 7								MILE 9								
2	3	3	101	82	0	0	51	6	0	0	33	28	0	0	0	0
4	7	10	165	135	0	0	30	7	5	8	58	70	0	0	0	0
6	20	20	153	162	0	0	12	8	-	12	-	105	0	0	0	0
8	33	31	166	175	0	0	43	9	18	19	128	128	0	0	1	1
11	42	47	195	190	1	1	22	11	28	28	157	157	1	1	2	2
16	71	64	207	210	2	1	-	12	44	46	198	190	2	1	3	2
21	69	77	225	220	1	1	18	14	61	61	219	223	0	1	2	3
26	87	88	218	228	2	2	32	15	71	72	240	248	2	1	3	3
31	100	100	239	234	1	2	13	17	82	82	272	277	1	2	2	4
36	108	108	260	240	-	2	-	18	92	92	303	292	1	2	3	4
41	115	116	238	248	1	2	13	19	100	100	303	308	2	2	4	4
46	123	124	206	255	2	2	19	20	105	107	314	322	3	2	5	5
49	-	129	-	260	2	2	13	20	105	110	292	330	2	2	6	5
EAST RIVER (Cont'd)																
MILE 11								MILE 13								
2	0	0	9	10	0	0	0	0	0	0	0	0	0	0	0	0
4	3	3	35	36	0	0	0	0	0	2	3	0	0	0	0	0
6	-	7	-	61	0	0	0	0	0	0	5	5	0	0	0	0
8	13	12	82	80	0	0	0	0	1	1	10	7	0	0	0	0
11	19	19	96	95	0	0	0	0	1	2	10	10	0	0	0	0
16	24	28	114	114	0	0	0	0	3	3	14	15	0	0	0	0
21	35	36	142	127	0	0	0	0	4	4	19	19	0	0	0	0
26	51	42	208	139	3	1	0	0	5	5	24	24	0	0	0	0
31	48	49	124	147	2	1	0	0	6	6	25	28	0	0	0	0
36	58	55	145	153	0	2	0	0	7	7	29	32	0	0	0	0
41	61	61	155	158	3	2	0	0	8	8	35	34	0	0	0	0
46	66	67	166	160	0	2	0	0	9	8	34	35	0	0	0	0
49	48	71	92	162	1	2	0	0	8	8	32	36	0	0	0	0
EAST RIVER (Cont'd)																
MILE 15								MILE 17								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
36	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0
41	1	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0
46	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0
49	1	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0
EAST RIVER (Cont'd)																
MILE 20								HEADBAY								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	New Yorks		North River		New Yorks		North River		New Yorks		North River		New Yorks		North River	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
MILE 12																
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3	3	8	8	0	0	0	0	0	0	0	0	0	0	0	0
6	4	5	24	18	0	0	0	0	0	0	0	0	0	0	0	0
8	6	6	37	27	0	0	2	1	6	6	6	37	27	0	0	2
11	8	9	43	40	1	1	3	1	11	11	11	43	40	1	1	3
16	12	12	53	56	2	1	5	2	16	16	16	53	56	2	1	5
21	25	15	98	70	1	1	0	2	21	21	21	98	70	1	1	0
26	14	18	41	84	1	2	0	3	26	26	26	41	84	1	2	0
31	28	21	105	96	1	2	1	3	31	31	31	105	96	1	2	1
36	36	24	129	106	-	2	-	3	36	36	36	129	106	-	2	-
41	26	28	80	111	0	2	0	3	41	41	41	80	111	0	2	0
46	30	31	90	115	3	2	5	4	46	46	46	90	115	3	2	5
49	34	34	104	117	3	2	10	4	49	49	49	104	117	3	2	10
RIKERS ISLAND CHANNEL																

Table 8
Plant Effluent Concentrations in Parts per Billion
 Consolidated Edison Reactor Plant

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
<u>LOWER BAY</u>												
<u>STATION L2</u>				<u>STATION L7</u>				<u>STATION 8A</u>				
16	-	-	0	0	-	-	0	0	-	-	0	0
21	-	-	0	0	-	-	6	0	-	-	3	2
26	-	-	0	0	-	-	0	0	-	-	4	6
31	-	-	0	0	-	-	0	0	-	-	16	14
36	-	-	0	0	-	-	0	0	-	-	23	27
41	-	-	0	0	-	-	0	0	-	-	53	45
46	-	-	0	0	-	-	0	0	-	-	39	62
49	-	-	3	0	-	-	0	0	-	-	-	68
<u>LOWER BAY (Cont'd)</u>												
<u>STATION 9A</u>				<u>STATION 10A</u>				<u>STATION L10</u>				
16	-	-	0	0	-	-	3	0	-	-	0	0
21	-	-	2	2	-	-	7	0	-	-	0	0
26	-	-	10	12	-	-	3	2	-	-	0	0
31	-	-	37	30	-	-	6	6	-	-	0	0
36	-	-	61	55	-	-	9	13	-	-	0	0
41	-	-	80	84	-	-	17	22	-	-	0	0
46	-	-	107	112	-	-	57	34	-	-	0	0
49	-	-	-	127	-	-	-	42	-	-	-	0
<u>LOWER BAY (Cont'd)</u>												
<u>STATION L12</u>				<u>STATION L14</u>				<u>STATION L17</u>				
16	-	-	0	0	-	-	3	0	-	-	4	0
21	-	-	3	0	-	-	2	0	-	-	3	0
26	-	-	3	0	-	-	2	0	-	-	2	0
31	-	-	2	0	-	-	2	0	-	-	2	2
36	-	-	0	0	-	-	0	0	-	-	6	6
41	-	-	3	1	-	-	0	3	-	-	0	13
46	-	-	4	3	-	-	10	7	-	-	37	23
49	-	-	-	3	-	-	-	10	-	-	-	30
<u>LOWER BAY (Cont'd)</u>												
<u>STATION L19</u>				<u>STATION L20</u>				<u>STATION L21</u>				
16	-	-	0	0	-	-	2	0	-	-	2	0
21	-	-	0	0	-	-	2	0	-	-	2	0
26	-	-	2	1	-	-	2	0	-	-	2	0
31	-	-	4	4	-	-	2	1	-	-	2	2
36	-	-	7	8	-	-	4	5	-	-	4	5
41	-	-	16	14	-	-	14	12	-	-	9	8
46	-	-	29	21	-	-	24	21	-	-	14	12
49	-	-	-	26	-	-	-	28	-	-	-	15
<u>LOWER BAY (Cont'd)</u>												
<u>STATION L23</u>				<u>STATION L26</u>				<u>RARITAN RIVER CHANNEL</u>				
<u>MILE 24</u>												
16	-	-	3	0	-	-	3	0	-	-	0	0
21	-	-	3	0	-	-	3	0	-	-	0	0
26	-	-	3	0	-	-	1	1	-	-	0	0
31	-	-	3	1	-	-	4	3	-	-	0	0
36	-	-	4	4	-	-	6	6	-	-	0	0
41	-	-	9	9	-	-	12	12	-	-	0	0
46	-	-	17	17	-	-	19	19	-	-	0	0
49	-	-	-	22	-	-	-	23	-	-	0	0

Table 8 (Cont'd)

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
<u>RARITAN RIVER CHANNEL (Cont'd)</u>												
<u>MILE 30</u>				<u>MILE 35</u>				<u>MILE 40</u>				
16	-	-	0	0	-	-	0	0	-	-	0	0
21	-	-	0	0	-	-	0	0	-	-	0	0
26	-	-	0	0	-	-	0	0	-	-	0	0
31	-	-	2	2	-	-	0	0	-	-	2	2
36	-	-	3	5	-	-	7	5	-	-	7	8
41	-	-	6	9	-	-	13	13	-	-	20	20
46	-	-	16	18	-	-	26	25	-	-	38	38
49	-	-	33	22	-	-	33	33	-	-	-	52

<u>HARLEM RIVER</u>					<u>JAMAICA BAY</u>								
<u>MILE 3</u>				<u>MILE 6</u>				<u>Cycle</u>		<u>STATION J0</u>			
15	35	6	6	3	33	25	4	2	11	0	0	-	-
20	39	51	6	6	113	180	6	7	16	2	0	-	-
25	159	180	9	9	381	370	12	14	21	2	0	-	-
30	427	375	10	12	508	530	23	26	26	0	0	-	-
35	485	480	16	16	611	630	43	43	31	2	2	-	-
40	462	502	20	20	658	658	52	58	36	5	5	-	-
45	404	500	26	23	634	640	66	64	41	11	11	-	-
50	485	485	24	25	599	605	66	67	46	17	18	-	-
									49	-	22	-	-

<u>JAMAICA BAY (Cont'd)</u>												
<u>STATION J1</u>			<u>STATION J2</u>			<u>STATION J3</u>						
11	0	0	-	-	0	0	-	-	0	0	-	-
16	1	0	-	-	1	0	-	-	3	0	-	-
21	0	0	-	-	1	0	-	-	1	0	-	-
26	1	1	-	-	0	0	-	-	3	1	-	-
31	3	3	-	-	3	3	-	-	3	3	-	-
36	6	6	-	-	7	7	-	-	1	5	-	-
41	11	11	-	-	10	11	-	-	6	8	-	-
46	17	17	-	-	16	16	-	-	10	10	-	-
49	13	21	-	-	20	18	-	-	23	11	-	-

<u>JAMAICA BAY (Cont'd)</u>					<u>KILL VAN KULL</u>					<u>ARTHUR KILL</u>					
<u>STATION J1</u>				<u>Cycle</u>				<u>MILE 3</u>				<u>MILE 6</u>			
11	0	0	-	-	16	0	0	0	0	0	0	0	0	0	
16	0	0	-	-	21	1	0	0	0	0	0	0	0	0	
21	0	0	-	-	26	14	14	17	13	0	0	3	3		
26	0	0	-	-	31	40	37	22	22	0	0	16	16		
31	0	0	-	-	36	65	64	-	33	3	3	33	32		
36	0	0	-	-	41	91	91	46	46	9	9	52	45		
41	2	2	-	-	46	111	114	61	63	16	17	52	53		
46	2	2	-	-	49	119	124	76	74	22	21	56	55		
49	2	2	-	-											

<u>ARTHUR KILL (Cont'd)</u>												
<u>MILE 9</u>			<u>MILE 12</u>			<u>MILE 15</u>						
16	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	2	0	0	0	0	0	0	0	0
36	0	0	9	9	0	0	0	0	0	0	0	0
41	0	0	19	20	0	0	0	0	0	0	0	0
46	0	0	32	32	0	0	2	2	0	0	0	0
49	0	0	40	40	0	0	4	4	0	0	0	0

Table 8 (Cont'd)

Cycle	High Water		Low Water		High Water		Low Water		High Water		Low Water		
	Effluent Obs.	Conc. Cor.	Effluent Obs.	Conc. Cor.	Effluent Obs.	Conc. Cor.	Effluent Obs.	Conc. Cor.	Effluent Obs.	Conc. Cor.	Effluent Obs.	Conc. Cor.	
<u>ARTHUR KILL (Cont'd)</u>													
<u>MILE 13</u>				<u>MILE 2</u>				<u>MILE 4</u>					
16	0	0	3	0	0	0	-	-	0	0	-	-	
21	0	0	3	0	0	0	-	-	0	0	-	-	
26	0	0	3	0	4	4	-	-	2	2	-	-	
31	0	0	3	0	22	22	-	-	7	7	-	-	
36	0	0	3	0	44	44	-	-	20	18	-	-	
41	0	0	3	0	73	67	-	-	40	37	-	-	
46	2	3	3	3	80	89	-	-	57	60	-	-	
49	5	5	6	5	88	98	-	-	65	66	-	-	
<u>NEWARK BAY</u>													
<u>HACKENSACK RIVER</u>													
<u>MILE 3</u>				<u>MILE 6</u>				<u>PASSAIC RIVER</u>					
<u>MILE 3</u>				<u>MILE 6</u>				<u>MILE 3</u>					
16	0	0	-	-	0	0	-	-	0	0	-	-	
21	0	0	-	-	1	0	-	-	0	0	-	-	
26	0	0	-	-	0	0	-	-	0	0	-	-	
31	3	3	-	-	1	1	-	-	2	2	-	-	
36	10	10	-	-	3	3	-	-	3	5	-	-	
41	20	20	-	-	9	8	-	-	10	10	-	-	
46	33	33	-	-	17	17	-	-	20	19	-	-	
49	41	41	-	-	23	23	-	-	26	26	-	-	
<u>PASSAIC RIVER (Cont'd)</u>													
<u>MILE 6</u>				<u>STATION 5</u>				<u>UPPER BAY</u>		<u>STATION 11</u>			
16	3	0	-	-	0	0	0	0	0	0	0	0	
21	3	0	-	-	4	4	4	4	3	4	3	2	
26	3	0	-	-	14	19	17	19	16	18	10	11	
31	3	0	-	-	37	41	55	41	50	41	32	24	
36	4	1	-	-	69	66	61	66	73	71	42	43	
41	7	3	-	-	92	90	96	90	100	103	61	64	
46	7	4	-	-	107	110	96	110	127	130	80	84	
49	7	5	-	-	119	117	104	117	134	144	96	96	
<u>UPPER BAY (Cont'd)</u>													
<u>STATION 13</u>				<u>STATION 13A</u>				<u>STATION 13B</u>					
16	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	1	3	1	0	1	3	1	0	0	3	1	
26	6	6	10	11	6	7	17	17	4	4	9	9	
31	20	21	40	37	33	26	49	48	22	22	33	34	
36	44	41	84	71	42	49	84	78	47	44	73	83	
41	61	62	103	110	69	67	99	104	69	66	84	92	
46	84	82	119	145	84	80	115	121	80	86	121	116	
49	84	92	165	163	80	83	126	126	96	95	103	127	
<u>UPPER BAY (Cont'd)</u>													
<u>STATION 14A</u>				<u>STATION 15A</u>				<u>STATION 16</u>					
16	0	0	7	0	15	0	0	0	16	0	0	0	
21	8	6	9	6	20	4	5	16	11	21	4	9	
26	32	28	10	10	25	37	37	64	78	26	22	49	
31	61	60	17	15	30	61	77	169	157	31	49	105	
36	103	96	19	21	35	111	113	215	230	36	89	168	
41	134	127	40	28	40	131	140	298	290	41	96	205	
46	148	146	30	35	45	157	169	333	320	48	131	227	
49	134	150	16	41	50	192	190	322	325	49	127	230	

Table 8 (Cont'd)

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	
<u>UPPER BAY (Cont'd)</u>													
<u>STATION 17</u>				<u>STATION 18</u>				<u>STATION 19</u>					
16	0	0	9	0	0	0	0	0	0	0	10	0	
21	6	6	7	5	3	3	4	4	2	3	2	3	
26	40	24	10	10	12	13	30	22	10	16	20	16	
31	50	50	16	15	30	30	57	52	34	37	60	37	
36	81	78	19	19	57	53	104	93	73	62	65	62	
41	107	107	22	22	80	76	107	131	84	88	88	88	
46	130	127	23	23	96	99	131	157	103	111	111	111	
49	130	135	26	23	107	110	150	168	115	122	111	122	
<u>UPPER BAY (Cont'd)</u>													
<u>STATION 20</u>				<u>STATION 22</u>				<u>HUDSON RIVER</u>					
<u>MILE -12</u>				<u>MILE -9</u>				<u>MILE -15</u>					
16	0	0	0	0	2	0	0	0	-	-	0	0	
21	3	3	2	5	3	4	6	7	-	-	0	0	
26	13	14	24	26	10	13	29	24	-	-	0	0	
31	30	31	85	61	27	28	77	51	-	-	2	2	
36	57	54	111	108	54	50	162	90	-	-	10	10	
41	80	77	185	160	77	76	107	134	-	-	20	19	
46	96	99	123	211	92	100	150	175	-	-	29	30	
49	107	110	131	240	107	113	184	200	-	-	-	36	
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE -12</u>				<u>MILE -9</u>				<u>Cycle</u>		<u>MILE 4</u>			
16	-	-	0	0	-	-	0	0	10	-	0	-	0
21	-	-	0	0	-	-	2	2	15	0	0	4	4
26	-	-	3	4	-	-	12	13	20	25	23	37	40
31	-	-	12	12	-	-	32	30	25	72	78	122	122
36	-	-	23	23	-	-	57	57	30	122	158	226	226
41	-	-	39	37	-	-	88	88	35	257	243	328	340
46	-	-	47	50	-	-	103	113	40	282	280	410	410
49	-	-	-	57	-	-	-	122	45	248	298	421	421
									50	294	300	421	425
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 8</u>				<u>MILE 12</u>				<u>MILE 14</u>					
10	-	0	-	0	-	0	-	0	0	0	21	12	
15	2	2	9	8	13	11	31	35	24	27	55	90	
20	13	22	75	78	47	47	169	162	107	100	219	222	
25	95	85	207	214	123	118	368	375	192	194	441	410	
30	180	180	360	360	227	227	529	529	291	300	613	590	
35	227	240	483	460	310	310	821	600	383	395	705	715	
40	291	284	521	505	356	356	655	650	475	465	751	751	
45	325	320	544	535	379	380	855	875	464	495	705	715	
50	348	352	532	548	402	400	678	685	464	475	659	655	
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 16</u>				<u>MILE 18</u>				<u>MILE 20</u>					
5	-	0	-	0	-	0	-	0	-	0	-	0	
7	-	0	-	0	-	0	-	0	-	0	-	0	
10	1	2	22	13	5	5	11	13	6	6	33	22	
15	78	78	109	110	43	60	164	164	56	54	238	184	
20	232	232	296	305	168	170	427	415	234	210	498	490	
25	354	370	526	500	359	355	692	640	428	455	819	819	
30	480	490	676	670	520	550	817	817	659	640	900	930	
35	561	560	768	765	681	870	878	890	693	700	912	940	
40	584	560	791	780	716	710	876	876	727	720	900	890	
45	561	560	745	740	692	700	807	807	739	720	808	800	
50	-	530	664	685	681	681	715	715	705	700	705	705	

Table 8 (Cont'd)

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 22</u>				<u>MILE 24</u>				<u>MILE 26</u>					
5	-	0	-	0	-	0	-	1	0	0	13	13	
7	4	3	6	6	3	3	22	26	5	5	69	76	
10	38	30	64	64	22	24	137	132	50	41	341	290	
15	88	130	327	330	145	145	512	525	215	215	870	940	
20	267	300	707	680	386	386	915	940	479	500	1396	1396	
25	580	550	925	930	639	650	1152	1152	743	740	1315	1350	
30	707	765	969	1000	811	820	1152	1140	796	840	1234	1230	
35	810	810	969	969	846	846	1071	1030	892	870	1072	1030	
40	787	800	879	879	823	823	868	900	869	850	777	850	
45	764	750	787	780	776	776	754	760	790	790	697	697	
50	695	690	672	672	696	696	638	638	697	700	547	540	
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 28</u>				<u>MILE 30</u>				<u>MILE 32</u>					
5	1	1	33	33	1	0	0	0	0	0	0	0	
7	46	36	150	150	3	0	0	19	19	1	7	13	
10	143	143	548	490	5	13	12	139	173	41	45	144	175
15	353	510	1316	1270	7	40	41	437	450	132	140	577	625
20	836	836	1640	1640	10	265	145	996	1000	415	415	1564	1525
25	870	920	1478	1490	15	495	515	1806	1780	898	1060	2131	2131
30	962	940	1235	1220	20	996	996	1725	1825	1483	1430	1969	1969
35	939	910	928	928	25	1158	1165	1563	1563	1321	1390	1483	1520
40	893	840	744	725	30	1158	1120	1158	1180	1159	1159	1159	1100
45	790	790	629	595	35	996	1010	840	870	932	932	760	770
50	675	700	480	490	40	828	870	668	668	783	750	588	580
					45	725	725	530	520	622	610	450	450
					50	587	595	403	415	519	510	358	358
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 34</u>				<u>MILE 35</u>				<u>MILE 36</u>					
1	-	0	0	0	5	5	30	30	5	5	682	682	
3	5	5	290	290	21	72	1242	1050	30	86	2376	2376	
5	59	90	1160	1120	475	475	2457	2580	291	310	3429	3350	
7	256	256	1970	1970	510	1030	3267	3267	924	820	3429	3420	
10	739	690	2456	2456	1728	1680	3105	3105	1728	1728	3105	3080	
15	1403	1420	2375	2350	1809	1920	2214	2250	2295	2200	2133	2100	
20	1565	1620	1808	1800	1728	1728	1404	1380	1890	1930	1242	1210	
25	1484	1460	1241	1241	1404	1400	855	870	1404	1404	648	710	
30	1160	1160	808	808	1080	1050	567	560	1080	980	475	440	
35	888	880	543	550	774	790	360	365	694	710	337	285	
40	704	690	394	380	579	610	245	245	544	530	181	190	
45	566	555	279	275	498	475	173	164	395	405	127	127	
50	451	451	198	198	372	375	100	110	325	315	88	88	
<u>HUDSON RIVER (Cont'd)</u>													
<u>MILE 37</u>				<u>MILE 38</u>				<u>MILE 39</u>					
1	0	0	1647	1647	67	67	5616	5616	555	555	5292	5292	
3	119	180	3834	3834	694	650	4644	4950	2295	2700	4725	4725	
5	659	900	3834	3834	2133	2133	4158	4158	3267	3267	3672	3800	
7	1647	1820	3591	3560	2943	2820	3348	3348	3510	3410	2862	2862	
10	2619	2619	2862	2910	3024	3024	2295	2295	3105	3230	1728	1728	
15	2619	2619	1728	1728	2538	2538	1161	1180	2133	2050	999	835	
20	1971	2000	900	935	1647	1660	659	645	1161	1161	464	440	
25	1323	1323	533	533	999	1050	372	360	649	700	233	243	
30	889	889	348	320	659	665	222	210	486	442	146	143	
35	614	625	222	200	452	430	127	127	303	290	84	86	
40	441	450	115	126	337	276	77	77	613	194	47	52	
45	325	328	88	83	222	180	45	47	406	133	33	33	
50	245	245	54	56	107	115	33	30	257	93	27	21	

Table 8 (Cont'd)

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)												
MILE 40				MILE 41				MILE 42				
1	1242	1242	4887	4887	3024	3024	4887	4887	4644	4644	4401	4300
3	3429	3390	3996	3996	4239	4239	3267	3350	4320	4350	2214	2300
5	3510	3740	2943	2943	3996	3996	2133	2190	3915	3915	1655	1525
7	3834	3750	2133	2180	3591	3591	1404	1500	3348	3348	1080	1080
10	3267	3370	1323	1410	2943	2850	831	900	2295	2500	601	660
15	2133	2225	590	720	1404	1750	429	415	1404	1360	314	325
20	1323	1180	349	380	1009	960	211	211	705	705	192	180
25	579	650	208	208	533	520	127	115	372	405	100	103
30	395	385	115	116	303	298	64	64	257	240	78	60
35	222	232	68	66	165	175	36	37	138	149	34	37
40	154	146	34	39	88	108	18	22	96	93	23	23
45	96	93	24	23	67	69	13	13	66	61	15	14
50	60	61	13	14	44	45	7	8	25	40	8	9
HUDSON RIVER (Cont'd)												
MILE 43				MILE 44				MILE 45				
1	4563	4563	1647	1647	5211	5211	878	878	4887	4887	44	44
3	4239	4450	1323	1420	4563	4563	659	860	3915	3915	360	365
5	3915	4050	1080	1110	3672	3725	820	600	2943	2825	337	337
7	3267	3400	820	810	2862	2950	406	400	2052	2052	222	222
10	2376	2376	454	490	1971	1980	222	244	1323	1323	127	130
15	1161	1180	257	230	999	980	134	122	670	670	69	61
20	648	648	119	116	533	530	84	65	337	355	40	30
25	337	365	61	62	303	300	44	37	173	195	18	16
30	222	214	31	36	177	173	18	22	138	112	8	9
35	150	130	19	20	100	102	13	14	66	66	5	5
40	77	78	15	12	61	61	8	8	40	39	3	3
45	69	49	7	7	37	38	6	5	23	24	1	2
50	27	32	3	5	25	24	12	4	15	15	4	1
HUDSON RIVER (Cont'd)												
MILE 46				MILE 47				MILE 48				
1	4239	4239	34	34	3753	3753	10	24	2214	2214	22	22
3	2781	2850	127	127	2133	2160	20	24	1647	1647	13	23
5	1971	1971	64	91	1566	1410	14	20	1080	1080	3	20
7	1323	1360	68	70	999	960	19	16	678	750	17	17
10	729	810	66	47	555	580	24	12	471	455	8	13
15	394	394	23	26	257	275	6	7	195	218	10	8
20	211	205	16	15	157	140	3	4	153	113	5	5
25	150	110	18	8	88	76	7	3	65	63	3	4
30	65	63	3	5	48	43	0	2	34	36	11	3
35	48	37	3	3	25	25	0	1	24	21	5	2
40	17	22	1	2	13	15	0	0	14	13	8	1
45	15	13	0	0	13	9	0	0	7	8	1	1
50	5	8	6	0	4	6	0	0	19	5	5	0
HUDSON RIVER (Cont'd)												
MILE 49				MILE 50				MILE 52				
1	1404	1404	20	20	636	636	27	20	15	20	-	-
3	1242	1200	10	21	636	636	7	18	61	61	-	-
5	774	825	0	20	533	520	0	13	71	70	-	-
7	567	580	17	17	429	420	0	9	53	57	-	-
10	383	365	2	12	314	305	4	5	40	41	-	-
15	199	178	3	7	173	173	19	2	20	23	-	-
20	100	93	23	5	73	94	0	0	11	12	-	-
25	56	51	3	3	40	50	0	0	5	6	-	-
30	27	29	2	2	25	26	0	0	3	3	-	-
35	18	17	12	1	13	13	0	0	1	1	-	-
40	13	10	1	1	5	6	0	0	-	0	-	-
45	5	6	0	0	5	3	0	0	-	0	-	-
50	9	4	2	0	2	1	0	0	0	0	-	-

Table 8 (Concl'd)

Cycle	High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.		High Water Effluent Conc.		Low Water Effluent Conc.	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.

HUDSON RIVER (Cont'd)

MILE 56

3	0	0	-	-
5	6	6	-	-
7	10	10	-	-
10	5	4	-	-
15	0	0	-	-
20	0	0	-	-
25	0	0	-	-
30	-	0	-	-
35	-	0	-	-
40	-	0	-	-
45	-	0	-	-
50	-	0	-	-

EAST RIVER

MILE 3

16	0	0	10	0
21	10	10	7	7
26	32	31	10	10
31	57	59	14	13
36	96	91	20	15
41	127	123	14	17
46	130	134	24	19
49	130	135	20	20

MILE 7

2	2	12	2
7	12	7	7
30	29	9	9
53	52	10	10
80	77	7	10
107	102	6	11
119	117	9	11
100	117	13	11

MILE 11

0	0	0	0
3	3	2	2
8	7	2	2
13	11	0	1
15	17	0	0
19	22	0	0
26	28	0	0
33	32	0	0

EAST RIVER (Cont'd)

MILE 15

16	0	0	0	0
21	0	0	0	0
26	0	0	0	0
31	0	0	0	0
36	0	0	2	0
41	0	0	0	0
46	0	0	0	0
49	0	0	0	0

HEAD BAY

-	0	-	-
0	0	-	-
2	0	-	-
-	0	-	-
-	0	-	-
0	0	-	-
0	0	-	-
0	0	-	-

Cycle

MILE 54

1	0	0	-	-
3	0	0	-	-
5	7	7	-	-
7	10	10	-	-
10	12	12	-	-
15	3	7	-	-
20	3	3	-	-
25	1	1	-	-
30	3	0	-	-
35	-	0	-	-
40	-	0	-	-
45	-	0	-	-
50	0	0	-	-

Table 7
Plant Effluent Concentrations in Parts per Billion

Owl's Head and Passaic Valley Treatment Plants, High Freshwater Discharge

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	LOWER BAY															
	STATION L2								STATION L7							
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	9	3	6	7	3	3	8	8	0	0	0	0	0	0	0	0
26	9	10	13	11	0	10	23	21	0	5	0	6	0	0	0	0
31	12	20	0	16	17	20	36	36	12	12	13	13	6	0	1	4
36	18	33	19	21	26	33	51	52	0	21	0	23	6	3	13	9
41	51	47	0	27	49	47	65	65	30	30	33	33	2	5	15	15
46	48	60	34	33	63	60	85	76	39	39	44	44	6	8	17	22
49	49	66	38	38	63	66	85	85	10	43	0	50	11	11	25	25

Cycle	STATION L10				LOWER BAY (Cont'd)				STATION L12							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley					
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.				
2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
4	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
6	1	1	1	1	0	0	0	0	0	0	0	3	0	0	0	
8	3	3	7	20	0	0	0	0	0	0	7	3	3	0	7	
11	34	34	68	60	0	0	0	12	16	34	34	23	16	42	34	
16	72	70	120	112	10	0	11	0	29	50	67	90	46	50	57	90
21	87	80	138	130	2	0	1	2	98	90	151	110	98	90	108	110
26	86	88	145	142	6	8	6	8	90	100	144	115	98	100	104	115
31	90	90	154	154	11	11	12	11	125	108	193	122	102	108	112	122
36	79	95	138	160	13	12	14	12	86	116	127	130	125	116	136	130
41	63	95	114	160	12	12	12	12	102	123	147	138	133	123	135	138
46	32	95	32	160	13	13	12	13	94	132	101	148	133	132	135	148
49	90	95	54	160	12	13	12	13	129	139	114	150	136	139	127	150

Cycle	STATION L14				LOWER BAY (Cont'd)				STATION L17							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley					
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.				
2	0	0	0	0	2	0	0	0	2	1	0	0	3	1	0	0
4	2	0	0	0	2	0	0	0	2	0	0	0	4	0	0	0
6	2	0	0	0	3	0	0	0	4	8	1	3	9	8	1	3
8	2	2	4	11	2	0	0	10	16	16	11	13	16	11	11	11
11	2	11	0	11	10	11	9	11	34	34	60	38	35	34	32	32
16	98	38	162	38	34	38	41	38	66	66	92	92	65	66	53	58
21	37	55	57	56	42	54	51	54	90	90	126	126	90	90	76	81
26	37	70	57	75	73	66	73	66	113	110	146	146	106	110	97	97
31	74	84	140	95	77	75	77	75	117	120	164	164	117	120	114	114
36	75	100	116	116	90	86	87	86	133	133	178	178	133	133	131	123
41	120	120	163	142	94	94	94	94	136	140	145	192	144	140	142	134
46	144	140	156	170	109	106	104	106	144	150	127	204	156	150	141	141
49	125	150	111	190	90	110	76	110	156	158	134	210	163	158	144	145

Cycle	STATION L19				LOWER BAY (Cont'd)				STATION L20							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley					
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.				
2	3	0	0	0	3	0	19	1	3	2	0	0	4	2	19	1
4	4	0	1	1	4	0	21	5	4	4	1	3	7	4	21	15
6	4	1	2	3	4	1	21	16	13	13	20	17	7	13	28	32
8	4	4	4	7	4	4	24	30	17	23	34	34	13	23	48	54
11	9	17	23	20	20	17	62	62	42	41	33	61	32	42	85	85
16	43	52	61	61	52	52	90	100	53	71	85	88	63	71	115	120
21	82	82	109	110	82	82	124	124	90	90	126	110	90	90	145	145
26	102	100	136	134	106	100	156	150	102	105	137	130	106	105	168	163
31	113	117	157	157	117	117	172	170	113	120	143	145	117	120	183	183
36	129	130	179	179	129	130	183	190	133	130	153	162	129	130	200	200
41	136	140	198	198	140	140	197	210	140	145	178	178	140	145	211	215
46	148	150	206	216	152	150	228	230	152	155	191	190	152	155	231	230
49	156	160	215	225	160	160	242	240	156	160	215	201	160	160	238	238

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (Cont'd)																
STATION L21										STATION L23						
2	3	2	0	0	4	2	20	1	3	3	0	0	4	3	19	6
4	4	5	0	0	4	5	21	21	6	8	2	2	9	8	23	16
6	7	12	8	8	13	12	32	39	10	16	10	14	9	16	28	30
8	16	21	20	23	20	21	40	56	24	27	31	31	29	27	45	50
11	36	40	51	50	55	40	75	73	42	46	61	60	40	46	75	75
16	59	67	64	74	69	67	90	94	63	70	78	85	82	70	103	103
21	85	83	95	95	89	83	117	112	87	87	98	106	86	87	117	123
26	102	97	115	115	102	97	134	117	102	102	126	126	109	102	141	141
31	109	110	137	132	106	110	148	152	117	117	143	143	121	117	169	162
36	125	125	153	150	121	125	165	170	129	129	167	160	129	129	186	180
41	136	136	166	170	133	136	182	190	140	140	178	178	140	140	189	197
46	144	144	184	190	148	144	211	210	148	150	188	192	156	150	206	210
49	152	155	187	200	160	155	220	220	156	156	205	205	160	156	217	217
LOWER BAY (Cont'd)																
STATION L26										STATION 8A						
2	3	2	0	0	4	4	19	19	236	238	10	16	0	0	16	16
4	4	5	1	3	17	17	27	30	259	270	84	40	173	180	26	31
6	10	11	8	12	62	30	61	40	305	280	66	68	233	210	44	42
8	19	19	20	22	43	43	52	50	374	285	73	90	247	215	51	48
11	34	33	48	37	73	57	71	67	339	290	128	115	282	220	49	52
16	57	57	63	60	69	80	79	94	293	305	111	160	282	230	49	54
21	85	80	80	85	102	100	116	118	293	315	152	170	247	245	62	58
26	98	98	104	108	113	115	137	140	339	330	190	180	201	252	75	62
31	106	106	126	126	144	126	157	157	293	340	200	190	270	262	53	66
36	121	118	146	146	136	140	179	170	362	355	186	200	282	278	64	70
41	133	130	160	160	152	150	192	188	374	370	216	210	236	290	73	74
46	140	142	174	174	160	170	206	206	293	380	238	220	247	305	87	79
49	152	150	183	183	167	178	217	217	397	390	206	230	293	310	77	82
LOWER BAY (Cont'd)																
STATION 9A										STATION 10A						
2	19	18	42	40	23	23	144	144	9	9	0	0	217	152	23	23
4	29	40	42	52	53	53	217	175	9	21	0	0	397	175	50	58
6	55	63	56	59	94	84	198	198	45	34	12	12	140	180	77	78
8	77	81	73	65	98	110	198	216	32	46	7	23	194	182	92	89
11	106	96	104	74	125	132	261	242	32	60	12	31	117	185	96	105
16	98	100	90	87	140	140	292	290	67	80	37	40	194	190	124	124
21	109	105	101	98	144	144	260	310	98	96	65	50	213	192	145	145
26	121	111	132	110	148	148	292	340	106	106	58	59	156	198	159	159
31	113	119	100	120	160	150	387	375	125	113	68	68	152	200	165	170
38	98	122	101	130	156	156	355	390	129	122	78	78	217	205	192	182
41	152	130	130	136	163	163	291	400	133	133	85	85	252	210	200	195
46	129	135	132	142	179	169	322	410	140	142	95	93	175	215	197	200
49	133	140	149	149	152	170	441	415	148	148	95	99	194	220	203	205
JAMAICA BAY																
STATION JO										STATION J1						
2	6	6	2	1	6	6	0	1	12	9	5	5	9	1	0	0
4	9	21	4	5	23	21	4	5	22	22	12	16	13	6	1	1
6	13	35	10	13	29	35	11	13	39	39	30	33	22	17	7	7
8	23	47	21	23	42	47	25	23	55	55	52	52	26	30	12	16
11	43	60	47	43	60	60	43	42	75	75	66	73	37	48	25	35
16	67	76	64	68	76	76	63	58	98	93	79	98	65	67	61	57
21	89	92	80	85	98	92	72	72	125	110	118	118	89	80	70	72
26	109	105	108	105	109	105	90	87	146	125	138	138	90	93	79	84
31	125	120	128	122	121	120	100	100	140	140	156	152	106	106	94	94
36	133	135	145	142	129	135	114	116	152	150	169	170	117	115	111	105
41	148	148	167	160	140	148	131	130	163	162	183	183	125	125	121	116
46	156	160	177	180	148	180	142	140	171	172	203	200	136	136	127	125
49	160	168	183	190	156	168	134	153	171	180	203	205	140	140	127	130

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
JAMAICA BAY (Cont'd)																
STATION J2													STATION J3			
2	9	5	3	3	9	1	0	0	6	2	2	2	9	1	2	1
4	19	19	9	12	9	4	2	2	12	9	5	5	9	3	3	3
8	32	32	20	23	14	6	4	4	19	21	9	9	9	6	4	5
8	46	46	37	37	16	15	6	7	32	32	17	17	12	11	5	8
11	53	60	48	50	27	27	16	16	42	47	33	35	19	20	12	15
16	79	78	66	67	36	36	28	36	62	62	64	64	33	37	26	28
21	98	93	79	83	56	60	53	52	77	77	66	80	50	48	47	38
26	106	108	112	100	73	73	55	65	94	90	83	95	49	60	44	47
31	125	122	-	119	94	84	79	76	106	102	108	110	69	70	73	56
36	136	136	142	137	98	95	94	88	117	117	125	122	83	80	70	66
41	148	148	156	156	106	106	101	101	125	129	136	138	83	91	70	76
46	160	160	169	173	117	117	111	111	140	140	145	150	98	103	83	86
49	160	164	173	185	121	121	111	117	148	145	156	156	113	109	93	93

JAMAICA BAY (Cont'd)																
STATION J1																
2	10	0	2	0	9	0	2	0	0	0	0	0	0	0	0	0
4	9	0	4	0	9	0	4	0	0	0	0	0	0	0	0	0
6	9	1	0	1	12	1	3	1	0	0	0	0	0	0	0	0
8	13	3	4	2	10	3	4	2	0	0	0	0	0	0	0	0
11	13	8	3	3	13	8	5	3	0	0	0	0	0	0	0	0
16	22	21	13	12	17	21	11	12	0	0	0	0	0	0	0	0
21	29	32	25	25	33	32	24	25	0	0	0	0	0	0	0	0
26	40	42	37	37	40	42	41	37	0	0	0	0	0	0	0	0
31	56	52	58	47	47	52	47	47	0	0	0	0	0	0	0	0
36	70	64	59	57	59	64	60	57	0	0	0	0	0	0	0	0
41	77	77	73	70	72	77	66	70	0	0	0	0	0	0	0	0
46	86	90	87	83	85	90	77	83	0	0	0	0	0	0	0	0
49	94	98	97	90	90	98	90	90	0	0	0	0	0	0	0	0

RARITAN CHANNEL																
MILE 24													MILE 30			
2	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0
4	1	0	0	0	0	0	0	0	2	2	1	1	4	1	0	0
6	0	0	0	0	0	0	0	0	4	6	12	12	4	3	2	2
8	4	0	0	0	1	0	0	0	12	13	29	29	5	5	10	10
11	4	0	0	0	4	0	2	0	34	30	73	58	11	11	25	29
16	1	1	1	1	1	1	2	2	55	61	85	89	27	30	70	65
21	4	4	8	8	7	6	13	13	89	76	113	110	60	56	81	85
26	14	10	27	19	12	13	30	30	102	89	129	129	65	72	103	105
31	16	18	33	33	20	24	44	49	98	100	140	145	85	85	130	122
36	22	27	25	45	33	38	72	69	109	111	129	160	90	98	147	142
41	43	36	55	57	52	51	81	85	121	121	136	178	121	111	185	170
46	32	44	30	66	63	64	86	94	98	130	94	192	140	122	206	180
49	47	47	42	71	-	68	-	99	129	135	118	200	129	130	197	187

RARITAN CHANNEL (Cont'd)																
MILE 35													MILE 40			
2	3	3	0	0	4	1	0	0	2	0	0	0	3	2	0	0
4	26	26	38	43	6	5	6	43	2	2	0	9	9	13	14	9
6	49	49	65	65	13	13	35	65	4	5	0	23	24	28	27	23
8	50	66	81	78	19	26	52	76	9	11	14	39	39	45	51	39
11	90	82	94	90	47	45	79	90	27	27	51	65	67	65	56	65
16	86	100	105	105	62	64	96	105	63	60	92	95	82	86	70	95
21	125	116	114	119	87	78	138	119	83	70	123	118	113	104	103	118
26	129	130	128	130	83	88	134	130	98	95	144	138	125	120	132	144
31	140	145	135	140	117	97	179	140	109	109	162	152	129	135	125	152
36	152	155	141	146	98	105	154	146	121	121	175	170	152	145	162	170
41	163	165	155	151	102	112	162	151	133	133	163	182	148	160	156	182
46	173	171	143	154	117	119	175	154	144	144	135	195	163	170	159	195
49	183	177	141	155	125	120	182	155	156	150	130	205	171	175	158	205

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head Effl.	Passaic Conc.	Valley Effl.	Valley Conc.	Owl's Head Effl.	Passaic Conc.	Valley Effl.	Valley Conc.	Owl's Head Effl.	Passaic Conc.	Valley Effl.	Valley Conc.	Owl's Head Effl.	Passaic Conc.	Valley Effl.	Valley Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
KILL VAN KULL																
MILE 3								ARTHUR KILL								
2	23	23	33	17	2	2	8	17	4	3	12	30	3	3	30	30
4	43	49	74	43	7	8	43	43	7	7	48	48	9	8	59	65
6	72	72	77	61	19	17	58	77	10	11	66	60	17	16	94	102
8	79	88	91	71	29	31	91	108	12	15	48	68	29	28	123	130
11	106	100	151	83	56	54	164	140	20	20	73	78	46	46	157	157
16	114	109	96	99	67	75	174	174	26	26	91	91	63	66	200	190
21	106	112	72	112	85	85	191	200	32	32	104	104	83	77	231	211
26	125	117	132	125	86	90	227	222	37	37	118	118	89	88	220	229
31	136	120	156	136	102	95	248	240	45	43	132	125	94	95	230	239
36	125	125	89	148	102	102	248	257	45	48	129	132	98	102	241	245
41	129	130	100	155	106	109	194	268	52	54	139	140	106	108	230	250
46	136	135	113	160	113	113	203	278	59	59	146	146	113	113	250	250
49	125	138	132	165	113	120	169	285	62	62	142	148	113	115	229	250
ARTHUR KILL (Cont'd)																
MILE 9									MILE 12							
2	4	0	0	0	3	0	49	45	3	0	0	0	3	0	0	0
4	4	0	0	0	12	3	66	71	3	0	0	0	3	0	4	3
6	4	0	0	0	14	14	80	94	3	0	1	0	3	1	7	9
8	4	0	2	2	26	26	112	112	3	0	2	0	4	4	13	16
11	4	1	4	5	42	42	143	142	3	0	2	3	7	7	24	24
16	4	4	10	9	55	52	170	165	3	2	4	9	9	10	34	34
21	7	7	10	13	60	58	170	170	5	6	13	15	12	14	44	43
26	10	10	20	20	63	62	182	180	9	10	24	24	16	18	56	54
31	13	14	31	29	66	68	185	185	14	17	38	36	19	23	66	64
36	19	20	43	42	70	73	191	191	26	24	58	49	24	29	66	75
41	27	27	56	56	77	80	199	200	34	34	54	63	32	36	79	86
46	36	36	72	75	89	85	211	205	45	43	68	80	42	44	97	98
49	43	43	86	90	89	89	202	210	50	50	85	90	47	50	107	105
ARTHUR KILL (Cont'd)																
MILE 15									MILE 18							
2	2	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0
4	3	0	0	0	3	0	0	0	1	0	0	0	4	0	0	0
6	2	0	0	0	2	0	0	0	2	0	0	0	4	0	0	0
8	2	0	0	2	2	0	2	2	2	0	0	0	3	0	0	0
11	2	2	0	5	2	1	5	5	0	0	0	0	3	0	0	0
16	5	6	10	3	3	3	9	10	3	3	7	7	3	3	3	7
21	8	9	22	17	4	4	13	17	6	7	14	17	6	7	12	17
26	14	14	35	27	7	7	24	27	12	13	33	29	11	13	26	29
31	24	24	60	40	12	12	36	40	19	21	47	42	19	21	45	42
36	36	33	61	56	20	18	53	56	29	30	63	55	30	30	70	55
41	46	46	75	78	27	27	71	78	39	40	57	70	40	40	65	70
46	62	64	96	104	37	39	72	104	53	53	74	84	52	53	81	84
49	75	77	116	122	45	46	86	116	57	62	85	91	60	62	96	91
NEWARK BAY																
MILE 2									MILE 4							
2	10	10	91	91	3	1	0	0	3	3	37	37	3	0	0	0
4	24	30	130	140	4	4	6	15	9	12	70	75	4	1	0	0
6	49	49	183	180	6	6	26	34	19	22	116	118	4	4	7	7
8	57	62	188	198	9	11	52	56	34	33	140	140	6	6	23	24
11	70	74	223	212	19	19	80	84	47	47	168	168	12	12	51	49
16	90	88	240	230	36	36	125	125	69	70	214	197	23	24	74	73
21	102	100	198	240	52	52	164	164	90	88	237	219	37	38	113	116
26	106	108	251	245	63	66	192	180	98	98	231	231	49	51	138	142
31	117	112	304	250	75	76	223	190	106	102	251	245	62	62	168	168
36	125	120	293	260	85	85	248	200	109	109	262	250	69	68	186	190
41	125	127	229	265	90	90	187	215	117	112	240	260	73	73	200	190
46	133	135	271	270	94	94	198	230	117	117	261	265	79	79	203	205
49	121	139	250	275	98	98	208	235	117	120	240	270	85	83	207	210

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	HACKENSACK RIVER															
	MILE 3								MILE 6							
2	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
4	2	2	1	1	-	0	-	0	0	0	0	0	-	0	-	0
6	4	7	13	13	4	0	0	0	0	3	3	6	-	0	0	0
8	12	12	33	33	-	0	-	0	0	3	12	14	-	0	0	0
11	20	20	56	63	6	3	0	4	10	10	27	30	2	0	0	0
16	39	37	96	110	-	7	-	12	20	21	62	62	-	1	-	1
21	55	54	153	153	12	12	0	20	32	33	93	96	7	7	8	8
26	67	67	185	189	-	17	-	30	43	44	129	130	-	12	-	16
31	76	75	209	210	26	24	0	40	53	53	156	156	17	16	27	27
36	82	80	227	220	-	31	-	52	62	62	176	172	-	21	-	41
41	87	84	237	228	37	38	8	62	67	67	192	188	27	27	54	54
46	90	89	230	230	-	45	-	72	75	75	199	200	-	33	-	64
49	94	92	222	230	45	49	10	77	77	78	195	205	36	37	68	68

Cycle	HACKENSACK RIVER (Cont'd)															
	MILE 10								MILE 15							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
2	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	3	3	-	0	-	0	0	0	0	0	-	0	-	0
21	2	2	21	27	5	0	10	0	0	0	0	0	0	0	0	0
26	12	11	56	49	-	1	-	0	1	1	6	5	-	0	-	0
31	15	16	65	62	10	8	5	3	3	8	9	3	1	0	0	0
36	23	22	66	73	-	11	-	18	3	1	13	14	-	2	-	2
41	28	27	79	81	11	15	27	11	6	6	23	21	5	3	4	3
46	33	33	90	93	-	19	-	34	7	8	30	30	-	4	-	5
49	38	37	100	98	22	21	38	33	10	10	36	37	6	5	5	6

Cycle	PASSAIC RIVER															
	MILE 3								MILE 6							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
4	0	1	0	1	-	0	-	0	0	0	0	0	-	0	-	0
6	4	4	4	7	0	0	0	0	0	0	0	0	0	0	0	0
8	7	8	13	19	-	0	-	0	0	0	0	0	-	0	-	0
11	6	13	26	40	0	1	0	1	5	2	2	7	0	1	0	1
16	28	22	78	78	-	6	-	12	5	5	22	22	-	3	-	4
21	31	32	118	112	8	12	21	24	9	10	48	44	0	6	0	7
26	41	42	143	143	-	19	-	37	16	17	74	68	-	9	-	11
31	54	53	170	170	26	26	57	49	25	25	87	91	13	13	17	17
36	63	63	192	198	-	33	-	60	33	33	104	111	-	18	-	23
41	70	70	209	211	40	40	66	70	39	39	122	122	23	22	29	29
46	76	76	177	220	-	47	-	80	45	45	129	129	-	26	-	37
49	77	80	145	222	50	50	81	83	48	48	99	130	30	30	42	42

Cycle	PASSAIC RIVER (Cont'd)															
	MILE 10								MILE 15							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	2	3	-	0	-	0	0	0	0	0	-	0	-	0
21	1	1	6	7	0	0	0	0	0	0	7	2	0	0	0	0
26	2	2	10	13	-	0	-	0	0	0	3	3	-	0	-	0
31	6	4	22	22	0	0	0	1	0	0	5	5	0	0	0	0
36	8	7	34	32	-	1	-	3	0	0	5	6	-	0	-	0
41	11	11	43	43	1	3	0	5	0	0	7	7	0	0	0	0
46	16	14	51	56	-	5	-	7	0	0	9	9	-	0	-	0
49	17	17	44	62	6	6	9	9	0	0	6	11	0	0	0	0

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water				
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	
	STATION 5								STATION 11								
1	10		87		87	0	0	50	87	7	7	99	80	7	7	344	125
3	53	60	149	149	26	26	89	149	60	60	106	106	30	30	112	158	
5	94	90	180	175	55	55	174	175	63	72	171	120	30	45	184	180	
7	109	110	194	185	76	76	266	185	102	82	186	130	45	55	206	200	
10	-	123	-	192	106	95	208	192	-	93	-	148	73	65	264	220	
15	125	140	186	208	106	110	140	208	117	110	243	170	86	78	228	255	
20	156	145	205	220	129	112	207	220	133	124	132	190	94	89	260	280	
25	152	151	238	235	109	120	334	235	140	138	228	210	98	98	324	305	
30	175	159	365	250	136	124	268	250	148	148	228	230	106	106	324	320	
35	148	166	164	265	133	130	140	265	136	158	196	240	117	113	323	340	
40	167	172	195	280	129	135	248	280	171	166	119	255	121	121	312	355	
45	183	181	322	300	144	140	290	300	167	170	227	260	125	125	333	360	
50	175	188	237	320	129	145	344	320	160	175	269	265	121	128	366	360	

Cycle	STATION 13				UPPER BAY (Cont'd)				STATION 13A						
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley				
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.			
1	23	20	25	25	24	20	7	7	9	9	22	16	9	8	8
3	52	55	63	68	56	55	24	24	34	54	66	62	62	54	31
5	144	92	95	105	94	92	56	45	75	73	73	83	98	73	54
7	102	120	144	130	106	120	67	62	102	83	118	98	90	83	52
10	144	140	174	153	133	140	77	75	113	95	114	115	106	95	69
15	152	142	177	181	144	142	88	88	129	112	153	140	144	112	102
20	156	147	205	202	156	147	98	98	156	130	177	160	144	130	124
25	148	150	249	220	144	150	99	108	158	142	177	180	160	142	76
30	156	152	233	230	117	152	75	112	152	155	187	195	133	155	99
35	160	155	241	241	136	155	74	115	158	166	201	210	133	188	99
40	163	158	241	248	144	158	84	120	175	175	214	220	129	175	107
45	163	162	219	250	163	162	98	122	179	180	230	230	167	180	112
50	-	165	-	250	-	165	-	122	186	185	240	240	194	185	121

Cycle	STATION 13B				UPPER BAY (Cont'd)				STATION 14A						
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley				
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.			
1	20	40	39	39	144	40	0	0	109	77	0	26	7	7	12
3	83	82	71	75	113	82	16	16	58	97	17	32	14	14	19
5	117	110	96	98	86	110	33	37	136	110	33	41	30	18	33
7	129	128	157	112	106	128	56	53	86	120	53	48	30	20	42
10	152	145	183	130	233	145	58	66	125	135	68	55	26	23	32
15	186	165	164	150	397	185	86	80	156	152	59	64	23	27	28
20	179	180	222	170	397	180	111	90	244	170	76	72	29	31	41
25	186	190	240	182	106	190	90	99	148	180	67	78	24	34	29
30	186	204	172	195	420	204	99	105	198	190	75	83	40	36	44
35	165	208	205	205	351	208	120	110	252	200	86	87	27	38	30
40	190	210	171	210	236	210	94	115	179	210	72	88	24	39	28
45	190	210	182	212	129	210	75	117	252	210	93	93	46	40	44
50	-	210	245	212	-	210	-	118	140	210	56	93	43	41	38

Cycle	STATION 15A				UPPER BAY (Cont'd)				STATION 16						
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley				
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.			
1	0	2	19	19	0	0	5	5	52	82	5	14	0	0	14
3	12	13	44	43	0	0	13	17	86	93	28	34	1	1	28
5	13	28	35	51	3	6	23	23	163	110	65	47	12	11	45
7	32	42	61	58	10	11	28	30	106	121	54	53	19	19	53
10	62	55	96	67	17	17	37	36	213	138	73	62	23	27	62
15	59	68	68	79	22	23	43	43	183	160	88	73	32	33	59
20	98	80	94	88	33	26	56	48	213	180	88	82	43	38	85
25	102	88	94	95	34	30	59	52	198	200	107	89	42	42	59
30	90	95	105	105	32	33	47	55	167	208	91	95	47	45	89
35	63	104	69	110	34	35	53	58	221	230	88	102	43	48	59
40	71	110	70	112	42	38	58	59	237	240	94	105	49	52	82
45	102	115	116	116	40	40	62	60	260	250	111	108	50	52	50
50	136	117	117	117	40	42	53	61	244	255	126	110	-	52	-

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
UPPER BAY (Cont'd)																
STATION 17								STATION 18								
1	90	100	1	1	12	12	17	17	7	7	102	102	7	7	86	60
3	148	130	20	28	16	16	21	21	49	53	129	150	29	29	74	80
5	163	150	51	43	23	18	26	24	83	80	187	170	45	50	87	90
7	90	168	40	54	27	20	32	26	113	98	229	190	66	70	100	100
10	133	185	60	65	27	22	35	29	-	112	-	210	87	85	131	110
15	225	210	70	66	30	25	38	33	144	135	239	240	106	102	134	125
20	198	230	85	84	27	28	41	36	152	150	227	265	117	115	151	140
25	290	245	95	93	27	30	37	38	160	165	302	285	117	125	176	150
30	275	255	103	98	33	32	40	40	171	178	344	300	136	135	128	160
35	237	265	105	102	33	33	39	42	171	185	279	310	117	140	137	165
40	267	270	89	105	30	34	38	43	179	190	-	320	140	148	147	170
45	229	270	102	108	32	34	41	43	202	195	310	325	156	150	170	170
50	221	270	88	108	45	34	43	43	194	200	321	325	144	150	168	170
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
1	460	205	0	0	32	32	0	0	13	13	87	87	1	1	9	9
3	383	250	0	0	106	100	9	9	62	60	139	160	5	9	26	29
5	328	270	54	54	121	120	21	22	83	88	213	210	29	29	51	50
7	282	290	70	73	113	130	37	37	113	110	189	230	43	43	61	67
10	259	300	89	88	125	145	47	47	121	120	261	240	60	56	92	79
15	328	310	108	100	144	160	64	53	121	130	186	250	66	62	85	82
20	293	320	109	108	194	165	42	56	148	140	206	255	53	66	67	84
25	339	330	132	110	167	165	66	59	152	148	334	260	66	70	89	86
30	316	340	90	112	171	165	61	60	160	158	291	270	85	75	88	89
35	512	350	94	116	156	165	59	60	136	170	132	280	79	80	84	90
40	684	360	104	120	163	170	-	61	175	180	162	285	83	85	95	92
45	270	375	124	122	179	170	61	61	186	190	290	290	102	90	101	95
50	397	390	129	125	129	170	61	61	206	200	310	300	94	98	90	98
UPPER BAY (Cont'd)																
STATION 22																
1	36	32	41	45	1	1	59	50								
3	56	64	78	90	14	25	58	66								
5	87	86	116	110	43	40	81	76								
7	109	104	133	125	42	47	87	85								
10	-	120	-	142	60	57	118	95								
15	171	140	132	165	106	70	127	110								
20	148	160	149	182	79	80	110	120								
25	152	170	223	200	83	90	121	132								
30	198	180	207	210	106	97	95	142								
35	183	190	232	220	90	107	102	149								
40	190	195	142	230	102	112	102	156								
45	237	198	183	230	133	119	107	159								
50	-	200	-	230	125	122	122	160								
HUDSON RIVER																
MILE -15								MILE -12								
1	4	2	0	0	2	2	14	14	3	0	0	0	9	9	8	8
3	6	8	0	1	30	38	28	38	7	7	7	7	50	58	174	87
5	14	17	8	8	59	64	52	55	22	27	20	29	86	82	231	103
7	29	29	22	20	86	80	72	66	50	50	53	47	113	95	229	120
10	47	50	30	37	102	97	86	76	89	75	63	65	133	110	313	137
15	72	75	59	52	129	119	65	90	98	98	79	84	144	133	271	161
20	98	90	69	63	140	138	100	100	117	117	103	100	175	152	226	180
25	109	107	79	72	136	150	111	110	133	132	128	118	163	170	355	201
30	109	120	65	81	140	165	107	120	140	145	160	133	183	188	215	220
35	117	130	78	88	163	178	120	128	156	156	152	150	190	200	236	233
40	136	140	99	95	171	187	134	130	160	170	159	160	210	215	245	248
45	144	147	99	101	198	193	129	132	176	180	179	175	210	225	235	255
50	144	150	106	106	213	200	132	135	183	185	182	180	237	235	255	260

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE -9												MILE 2				
1	10	10	0	0	9	10	34	34	4	2	1	3	9	0	0	0
3	34	34	6	7	37	37	75	82	9	9	13	13	11	5	6	5
5	63	52	20	11	69	70	92	97	19	19	26	26	14	14	11	14
7	44	65	12	16	136	110	109	109	27	28	46	35	21	21	18	22
10	56	71	25	23	202	165	196	120	49	38	70	43	29	28	29	30
15	109	85	63	34	194	190	142	135	49	47	47	52	34	35	36	38
20	109	100	51	47	202	195	-	145	70	55	59	58	44	41	46	43
25	113	115	61	49	202	200	157	150	63	62	60	64	42	44	45	48
30	121	125	71	70	206	206	221	155	69	66	68	68	51	48	49	51
35	140	140	81	80	202	210	239	162	66	69	46	73	51	51	47	54
40	144	148	88	88	217	211	138	170	57	72	46	76	51	53	45	56
45	156	156	94	93	225	216	166	178	72	74	45	78	54	54	42	58
50	160	162	94	96	202	220	187	180	72	75	49	79	51	55	42	58
HUDSON RIVER (Cont'd)																
MILE 4												MILE 6				
1	0	0	0	0	6	0	0	0	3	1	1	1	4	0	0	0
3	0	1	1	1	6	2	0	1	13	14	24	22	4	2	0	0
5	1	10	8	10	8	8	3	4	19	20	28	29	6	6	0	0
7	18	18	26	26	14	14	10	9	30	24	39	34	9	10	4	4
10	26	24	34	31	21	21	15	18	26	28	38	39	14	14	8	9
15	24	31	34	37	29	27	30	28	26	33	37	46	18	17	14	12
20	36	36	45	42	38	31	41	33	37	38	51	52	22	20	6	14
25	59	40	75	46	37	34	38	38	47	42	64	57	22	22	17	16
30	50	43	43	49	47	36	45	40	53	46	62	63	25	24	21	17
35	37	47	39	51	34	38	29	43	43	50	50	66	24	25	17	18
40	47	49	46	53	39	39	32	45	53	53	54	70	25	26	16	19
45	52	51	49	54	35	40	23	46	72	55	75	72	27	27	15	20
50	57	52	57	54	39	40	30	47	39	57	36	74	28	28	16	21
HUDSON RIVER (Cont'd)																
MILE 8												MILE 10				
1	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
3	2	0	0	0	3	0	0	0	2	0	13	13	0	0	0	0
5	6	8	5	10	3	0	0	0	6	6	17	20	0	0	1	1
7	19	16	28	25	5	3	0	0	10	10	28	27	0	0	3	3
10	20	21	31	30	9	8	3	3	13	14	26	32	0	0	0	5
15	26	26	38	37	11	11	6	6	19	18	46	38	3	3	8	8
20	31	31	42	43	14	13	9	9	30	22	60	42	5	5	10	10
25	33	34	46	47	16	15	10	10	24	24	49	47	8	6	11	11
30	41	38	48	51	16	16	11	11	26	27	49	49	7	7	13	12
35	47	41	54	54	17	17	14	12	27	29	46	52	7	7	12	12
40	44	44	47	56	17	18	9	13	33	31	53	53	8	8	11	13
45	40	45	38	57	17	18	7	14	33	33	54	54	8	8	10	13
50	47	47	48	58	19	19	9	15	27	34	52	54	8	8	11	13
HUDSON RIVER (Cont'd)																
MILE 12												MILE 14				
1	0	0	1	0	3	0	4	0	0	0	0	0	3	0	3	0
3	0	0	5	1	3	0	4	1	1	0	3	0	3	0	4	0
5	1	1	9	9	4	1	6	8	5	2	10	6	3	0	3	0
7	3	3	12	15	3	3	6	7	7	8	11	11	3	0	5	2
10	10	8	20	20	8	5	12	8	9	11	14	15	3	3	5	5
15	17	13	32	25	6	6	11	10	16	15	23	18	4	5	7	7
20	15	16	30	29	7	7	12	11	20	18	26	21	5	5	8	5
25	19	19	35	33	7	7	13	12	18	20	22	23	5	6	9	9
30	23	21	39	36	8	8	14	13	23	21	26	25	6	6	9	10
35	23	24	37	39	8	8	13	14	23	22	25	27	7	7	10	10
40	26	26	39	41	8	8	12	15	20	23	21	27	7	7	10	10
45	28	28	32	43	8	8	12	15	21	24	20	27	6	7	7	10
50	25	29	35	45	8	8	10	15	23	24	22	27	6	7	7	10

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
HUDSON RIVER (Cont'd)																
MILE 16				MILE 18												
1	2	0	0	0	1	0	3	0	1	0	0	0	1	0	1	0
2	2	0	1	0	1	0	3	0	2	0	0	0	0	0	1	0
5	3	0	1	0	1	0	1	0	2	0	0	0	0	0	2	0
7	3	4	1	1	1	0	3	0	3	3	1	3	0	0	1	0
10	8	8	10	9	1	1	5	2	7	5	8	5	0	0	2	0
15	10	10	12	12	2	2	5	4	6	6	6	6	0	0	2	2
20	12	12	15	14	3	2	6	5	6	6	6	6	0	0	2	2
25	11	13	13	15	3	3	5	5	12	7	11	7	0	0	1	2
30	19	14	21	16	3	3	6	6	7	8	7	8	0	0	1	2
35	14	15	14	17	3	3	6	6	8	8	8	8	1	0	3	2
40	14	15	15	18	3	3	6	6	10	9	7	9	0	0	2	3
45	16	16	14	19	-	3	-	6	7	9	5	9	0	0	2	3
50	16	16	14	19	3	3	5	6	11	9	7	9	0	0	2	3
HUDSON RIVER (Cont'd)																
MILE 20				MILE 24												
1	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
7	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
10	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
15	2	2	3	3	0	0	1	1	1	0	0	0	0	0	1	0
20	3	3	3	4	0	0	1	1	0	0	0	0	0	0	1	0
25	5	4	5	4	0	0	0	2	2	0	2	0	0	0	0	0
30	4	4	5	5	0	0	2	2	2	0	0	0	0	0	1	0
35	4	4	5	5	0	0	2	2	1	0	0	0	0	0	1	0
40	3	4	4	5	0	0	1	2	0	0	0	0	0	0	1	0
45	5	4	5	5	0	0	2	2	0	0	0	0	0	0	1	0
50	5	4	4	5	0	0	2	2	0	0	0	0	0	0	0	0
HUDSON RIVER (Cont'd)																
MILE 28				MILE 32												
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAST RIVER																
MILE 3				MILE 5												
1	79	79	0	0	0	0	0	0	75	75	0	0	0	0	0	0
3	86	118	2	2	3	3	0	0	59	108	0	0	0	1	0	0
5	148	130	7	8	4	4	0	0	125	120	11	11	3	2	0	0
7	98	140	14	15	13	11	0	0	90	126	18	18	3	2	0	0
10	148	146	23	24	18	15	0	0	129	130	30	26	4	3	0	0
15	179	150	32	32	11	6	0	0	140	131	34	32	3	3	0	0
20	140	155	38	36	15	6	0	0	133	136	33	35	2	2	0	0
25	167	160	40	38	8	7	0	0	144	140	42	39	3	4	0	0
30	171	165	42	40	7	8	0	0	156	143	38	41	3	4	0	0
35	175	170	39	41	7	8	0	0	152	150	38	36	3	4	0	0
40	171	175	45	42	8	8	0	0	160	153	40	45	4	4	0	0
45	167	180	40	43	10	9	0	0	152	158	33	46	4	4	0	0
50	186	185	36	44	9	9	0	0	160	162	29	47	4	4	0	0

Table 7 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
EAST RIVER (Cont'd)																
MILE 7													MILE 9			
1	19	19	0	0	0	0	0	0	2	0	0	0	0	0	0	0
3	46	50	0	0	0	0	0	0	5	7	3	3	0	0	0	0
5	90	72	1	2	0	0	2	2	28	21	13	13	0	0	1	0
7	75	84	1.3	11	0	0	2	3	33	32	22	22	0	0	0	0
10	90	90	21	21	1	0	3	3	40	40	31	30	0	0	1	0
15	94	94	26	28	0	0	2	4	46	48	37	37	0	0	1	0
20	102	96	32	31	0	0	4	4	57	54	46	41	0	0	0	0
25	106	100	36	33	0	0	4	4	61	61	47	44	0	0	0	0
30	109	104	32	33	1	0	1	4	61	64	41	46	0	0	1	0
35	106	109	32	33	1	0	3	4	61	69	44	48	0	0	0	0
40	109	112	36	33	0	0	4	4	65	72	46	49	0	0	1	0
45	109	117	31	33	0	0	4	4	70	73	41	49	1	0	3	0
50	121	121	30	33	-	0	4	4	74	74	41	49	0	0	1	0
EAST RIVER (Cont'd)																
MILE 11													MILE 13			
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	5	3	0	1	0	0	0	0	3	1	1	2	0	0	0	0
5	8	8	4	4	0	0	0	0	1	2	0	3	0	0	0	0
7	11	11	8	8	0	0	0	0	1	2	4	3	0	0	0	0
10	14	15	14	13	0	0	0	0	3	2	1	4	0	0	0	0
15	20	19	19	17	0	0	0	0	3	3	5	4	0	0	0	0
20	24	22	24	19	0	0	0	0	3	3	3	5	0	0	0	0
25	14	24	12	21	0	0	0	0	3	3	5	5	0	0	0	0
30	25	26	18	23	0	0	0	0	3	3	5	5	0	0	0	0
35	24	27	18	24	0	0	0	0	3	4	7	6	0	0	0	0
40	19	28	16	25	0	0	0	0	2	4	5	6	0	0	1	0
45	29	28	18	26	0	0	0	0	4	4	7	6	0	0	0	0
50	27	28	13	26	0	0	0	0	1	4	4	6	0	0	4	0
EAST RIVER (Cont'd)																
MILE 15													MILE 17			
1	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
50	0	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0
EAST RIVER (Cont'd)																
MILE 20													HEAD BAY			
1	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
3	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
5	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
7	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
10	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
15	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
20	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
25	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
30	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
35	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
40	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
45	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
50	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-

Table 7 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RIKERS ISLAND CHANNEL																
MILE 12								MILE 13								
1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1
3	2	0	0	0	0	0	2	2	0	0	0	0	0	0	2	2
5	6	4	1	0	0	0	3	3	1	0	0	0	0	0	4	2
7	6	6	1	3	0	1	4	3	1	0	0	0	0	0	4	3
10	10	8	7	5	2	2	4	4	1	0	0	0	0	0	4	3
15	15	11	12	6	2	2	5	4	1	1	0	0	0	0	3	3
20	10	12	5	7	0	2	4	4	4	3	0	0	0	0	4	4
25	12	13	9	8	2	2	4	5	4	4	3	0	0	0	2	4
30	16	13	12	8	2	2	4	5	3	5	1	0	0	0	3	4
35	16	14	12	9	2	2	3	5	3	5	1	0	0	0	3	5
40	16	14	9	9	3	2	3	5	5	6	1	0	0	0	2	5
45	13	15	7	9	2	2	5	5	7	6	1	0	0	0	4	5
50	16	15	10	9	3	3	5	5	7	6	4	0	0	0	6	5
FLUSHING BAY MILE 15																
1	0	1	0	0	0	0	1	1	0	0	0	0	11	15	17	15
3	2	2	0	0	0	0	2	2	0	0	0	0	14	19	19	19
5	2	2	0	0	0	0	3	2	0	0	0	0	20	21	21	21
7	2	2	0	0	0	0	3	2	0	0	0	0	21	23	23	23
10	3	3	0	0	0	0	3	3	0	0	0	0	24	25	24	25
15	3	4	0	0	2	2	3	3	0	0	1	1	26	27	28	27
20	3	5	0	0	0	2	2	3	0	0	3	3	27	28	32	28
25	5	5	0	0	3	2	1	4	0	0	5	5	27	30	29	30
30	3	5	0	0	2	2	2	4	1	0	6	6	28	30	32	30
35	5	5	0	0	3	3	1	4	0	0	6	7	28	30	29	30
40	5	5	0	0	2	3	3	4	0	0	4	7	31	31	31	31
45	5	5	0	0	2	3	4	4	0	0	3	7	30	31	28	31
50	5	5	0	0	2	3	6	4	0	0	4	7	31	32	28	32
HARLEM RIVER MILE 3																
1	0	0	0	0	4	4	9	4								
3	0	0	0	0	14	17	13	17								
5	0	0	0	0	24	23	23	23								
7	0	0	0	0	33	29	28	29								
10	0	0	0	0	39	35	36	35								
15	0	0	0	0	43	44	45	44								
20	0	0	0	0	45	48	51	48								
25	0	0	0	0	45	50	50	50								
30	0	0	1	0	53	50	52	50								
35	0	0	0	0	49	50	49	50								
40	0	0	0	0	52	50	50	50								
45	0	0	0	0	56	51	45	51								
50	0	0	0	0	56	51	48	51								
HARLEM RIVER MILE 6																
1	0	0	0	0	4	4	9	4								
3	0	0	0	0	14	17	13	17								
5	0	0	0	0	24	23	23	23								
7	0	0	0	0	33	29	28	29								
10	0	0	0	0	39	35	36	35								
15	0	0	0	0	43	44	45	44								
20	0	0	0	0	45	48	51	48								
25	0	0	0	0	45	50	50	50								
30	0	0	1	0	53	50	52	50								
35	0	0	0	0	49	50	49	50								
40	0	0	0	0	52	50	50	50								
45	0	0	0	0	56	51	45	51								
50	0	0	0	0	56	51	48	51								

Table 6

Plant Effluent Concentrations in Parts per Billion

Owl's Head and Passaic Valley Treatment Plants, Low Freshwater Discharge

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.	Effl. Conc.	Cor.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
	STATION 8A								LOWER BAY				STATION 9A			
1	39	39	1	1	0	0	2	2	1	1	62	0	1	43	62	
3	72	80	46	46	52	52	22	22	32	40	160	135	33	40	110	135
5	116	92	67	75	52	64	38	38	76	74	237	185	66	74	187	185
7	169	104	100	100	61	74	58	58	82	95	183	210	80	95	280	210
10	90	118	110	115	91	87	78	78	119	105	299	240	113	105	203	240
15	163	140	136	130	122	104	102	102	132	140	287	280	128	140	278	280
20	148	160	144	144	153	120	122	120	160	155	318	310	144	155	298	310
25	148	180	151	160	166	135	136	130	181	170	339	330	166	170	254	330
30	226	200	183	175	156	150	140	145	185	185	360	360	166	185	351	360
35	226	210	190	185	175	165	156	160	203	190	370	375	175	190	317	375
40	228	230	229	218	181	181	171	180	197	200	370	390	181	200	339	390
45	208	240	220	240	175	190	178	200	200	205	391	400	178	205	403	400
50	166	250	254	265	200	200	212	220	213	210	358	400	157	210	359	400

LOWER BAY (Cont'd)
STATION 10A

1	0	0	1	1	2	2	1	1
3	1	3	3	3	43	43	39	39
5	5	6	6	7	69	68	55	60
7	9	9	12	12	26	80	28	74
10	16	16	20	21	97	88	110	83
15	28	28	40	41	100	98	93	93
20	40	41	67	63	113	110	99	104
25	53	53	80	83	107	120	114	114
30	69	66	102	99	135	130	123	130
35	78	78	119	115	153	142	140	142
40	88	88	136	130	160	160	157	160
45	97	102	146	150	172	172	178	180
50	119	116	166	173	197	190	209	200

LOWER BAY (Cont'd)
STATION 12

2	0	0	0	0	0	0	0	0
4	9	9	23	23	1	9	10	23
6	25	28	53	50	11	28	48	50
8	48	50	67	78	27	50	68	78
11	76	76	108	106	56	76	125	120
16	100	100	135	132	94	100	175	170
21	119	120	149	150	113	120	209	200
26	141	130	169	165	128	130	224	220
31	141	140	169	175	141	140	245	240
36	150	150	175	183	150	150	254	250
41	160	160	186	190	160	160	276	260
46	160	172	168	190	160	172	244	260
49	160	178	157	190	160	178	254	260

LOWER BAY (Cont'd)

	STATION L7								STATION L10							
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
8	1	0	0	0	1	0	2	0	0	0	1	0	0	0	0	0
11	3	1	0	2	1	0	3	0	0	2	3	0	0	0	0	0
16	5	5	5	8	2	3	7	8	9	9	23	23	1	1	3	3
21	10	13	10	21	9	8	18	21	29	29	50	52	16	16	40	40
26	24	26	42	42	22	19	54	42	53	53	95	92	16	16	40	40
31	46	45	71	66	32	32	60	66	75	75	136	145	20	25	50	62
36	78	66	101	98	50	50	91	98	97	92	164	170	37	33	78	76
41	85	88	108	128	65	68	123	128	113	110	164	190	47	40	82	88
46	100	108	121	152	62	84	123	152	122	120	202	210	44	48	92	100
49	113	115	109	165	107	94	182	165	125	130	202	220	48	52	103	106

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION L12								STATION L14								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
6	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
8	0	0	1	1	0	0	1	1	0	0	2	2	0	0	2	2
11	1	1	3	3	1	1	4	3	20	1	44	5	1	1	3	5
16	0	4	11	10	3	4	7	10	12	7	31	27	5	7	11	27
21	11	10	23	24	8	10	16	24	17	18	39	38	17	18	36	38
26	44	21	74	45	24	21	53	45	33	34	63	67	54	34	81	67
31	59	36	95	75	33	36	56	75	57	57	98	102	58	57	102	102
36	100	56	157	110	43	56	71	110	82	82	147	145	88	82	140	145
41	103	80	157	150	94	80	157	150	107	107	185	180	118	107	177	180
46	100	100	157	185	83	100	144	185	116	126	195	208	97	126	157	208
49	85	110	136	200	107	110	171	200	110	134	177	215	135	134	201	215
LOWER BAY (Cont'd)																
STATION L17								STATION L19								
2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
4	1	0	1	2	0	0	1	2	0	0	2	2	1	1	0	0
6	6	7	12	10	5	7	10	10	0	0	3	4	2	2	0	2
8	22	16	45	23	13	16	27	23	2	2	5	6	4	4	0	3
11	32	29	49	52	24	29	46	52	4	4	11	12	9	8	5	6
16	61	52	91	92	56	52	91	92	3	11	32	27	17	17	13	14
21	72	75	122	120	70	75	115	120	15	23	37	48	23	32	28	27
26	88	93	140	140	82	93	133	140	18	37	82	75	47	51	52	44
31	107	105	157	155	97	105	146	155	52	55	123	110	75	72	76	60
36	110	115	170	170	103	115	164	170	77	77	140	140	91	90	82	84
41	125	120	188	185	122	120	177	185	91	91	153	165	100	105	93	100
46	141	128	205	190	125	128	191	190	122	110	177	190	119	120	99	110
49	119	131	184	200	110	131	174	200	141	120	198	200	119	125	106	112
LOWER BAY (Cont'd)																
STATION L20								STATION L21								
2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4	2	2	4	4	1	2	0	0	0	0	2	0	0	0	0	0
6	4	4	8	9	0	4	0	0	0	0	2	2	0	0	0	0
8	10	9	17	17	5	9	3	3	1	1	4	5	3	1	0	1
11	18	17	33	32	15	17	5	10	6	6	12	13	6	6	4	4
16	30	32	58	54	31	32	34	34	16	19	32	32	19	19	14	15
21	45	45	71	70	44	47	49	49	30	29	58	46	32	29	34	34
26	56	56	84	85	64	62	59	62	43	39	56	60	40	39	44	45
31	62	66	98	100	91	75	75	72	49	49	74	74	49	49	52	57
36	74	74	115	115	91	90	85	84	59	80	87	90	60	60	56	70
41	82	82	133	130	103	108	93	93	65	74	98	108	66	74	62	82
46	91	90	139	145	122	122	92	104	88	87	122	122	85	87	54	95
49	91	94	110	150	144	135	98	110	88	96	136	136	94	96	64	104
LOWER BAY (Cont'd)																
STATION L23								STATION L26								
2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	1	2	0	0	0	0	0	0	1	0	4	0	0	0
6	1	1	3	4	1	1	0	1	1	2	3	3	6	2	0	0
8	4	4	9	10	4	4	0	3	4	6	8	8	9	6	0	1
11	9	6	18	24	10	10	6	8	9	13	17	19	14	13	4	4
16	10	9	55	53	24	24	23	22	22	24	42	40	26	24	13	13
21	10	12	80	72	36	36	35	35	34	37	63	63	40	37	27	25
26	15	15	79	87	51	50	49	49	47	50	78	83	51	50	37	36
31	19	19	97	100	60	60	62	58	63	63	102	102	62	63	49	47
36	23	23	111	111	-	68	68	65	75	75	122	120	69	75	58	57
41	19	27	119	122	72	74	71	71	85	85	136	138	82	85	61	65
46	24	32	133	133	78	80	77	77	88	92	144	146	91	92	68	73
49	18	35	133	136	98	83	81	79	91	94	146	150	135	94	91	76

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RARITAN CHANNEL																
MILE 24								MILE 30								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	1	0	1	0	0	0	0	3	0	0	2	3
8	0	0	0	0	0	0	0	0	4	3	8	8	0	0	3	8
11	0	0	0	0	0	0	0	0	9	16	15	2	2	6	15	
16	0	0	0	1	0	0	0	1	18	23	29	34	8	7	15	34
21	5	5	8	7	0	5	1	7	57	44	77	58	16	17	39	58
26	11	11	14	17	6	11	10	17	62	69	87	87	27	30	71	87
31	26	22	41	32	22	22	59	32	97	94	125	110	29	45	61	110
36	26	34	44	47	24	34	63	47	116	115	149	125	66	61	137	125
41	40	45	65	63	29	45	69	63	113	120	142	155	72	76	147	155
46	47	55	70	65	56	55	112	65	135	130	151	172	66	80	137	172
49	62	60	70	70	62	60	123	70	122	132	142	180	128	100	216	180
RARITAN CHANNEL (Cont'd)																
MILE 35								MILE 40								
2	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	33	37	53	45	2	3	8	45	1	1	1	1	0	1	1	1
6	54	57	59	65	20	6	51	70	2	5	2	10	5	4	10	10
8	75	71	76	78	11	11	26	85	14	12	28	24	18	12	39	30
11	94	84	111	93	28	27	71	103	35	28	71	54	26	32	51	68
16	97	102	125	112	57	57	109	128	54	54	87	92	70	70	115	118
21	113	118	138	120	78	80	140	158	72	72	119	118	100	91	160	142
26	138	130	148	145	110	97	177	170	94	86	150	138	110	110	170	165
31	141	141	158	160	113	113	191	188	110	100	166	155	122	125	188	181
36	160	152	168	170	141	128	226	206	107	112	167	175	138	140	208	198
41	163	163	182	180	141	141	230	221	128	125	190	190	150	150	225	208
46	169	170	182	190	132	151	219	235	135	140	205	210	132	160	208	220
49	169	172	186	195	160	160	239	245	144	145	215	215	150	170	218	222
JAMAICA BAY																
STATION J0								STATION J1								
2	1	1	0	0	1	1	0	0	18	1	0	0	16	0	0	0
4	4	3	0	1	8	8	0	1	13	6	2	2	11	0	0	0
6	5	6	0	3	14	13	1	3	13	3	5	7	10	4	0	0
8	10	10	0	5	16	18	4	5	14	19	7	13	10	8	2	2
11	24	16	9	10	26	26	12	10	54	29	38	22	14	16	7	7
16	26	27	23	23	40	40	22	22	34	46	38	38	26	27	19	17
21	38	38	43	35	47	53	31	35	66	62	65	53	37	38	22	27
26	50	50	58	48	58	66	49	48	79	78	65	68	42	50	38	38
31	63	60	62	58	78	78	57	58	94	90	78	82	56	60	46	46
36	72	70	72	68	78	88	58	68	103	102	96	93	60	70	56	54
41	76	77	79	76	97	97	68	76	85	110	94	102	75	78	61	60
46	85	83	79	80	103	100	78	80	110	115	99	108	85	83	61	64
49	88	85	76	82	103	103	78	82	110	115	106	110	85	85	65	66
JAMAICA BAY (Cont'd)																
STATION J2								STATION J3								
2	7	1	0	0	1	0	0	0	4	0	0	0	0	0	0	0
4	3	8	0	4	6	0	0	0	4	4	0	0	3	0	0	0
6	18	3	7	9	8	2	0	0	6	6	0	1	4	0	0	0
8	21	18	14	13	4	6	0	1	11	10	3	4	4	2	0	0
11	29	27	14	19	10	10	2	4	12	14	6	9	5	5	0	2
16	39	39	31	31	19	19	11	11	26	23	17	17	10	10	3	4
21	46	53	43	43	33	28	19	19	30	32	27	26	17	14	9	10
26	54	66	49	54	33	37	28	28	40	41	39	35	21	22	14	17
31	63	79	69	64	45	47	40	37	50	50	49	42	27	30	20	24
36	91	90	68	74	54	55	52	45	57	60	65	50	37	39	36	33
41	97	97	82	82	66	65	52	52	71	67	58	58	47	47	43	43
46	97	104	78	86	72	72	61	60	71	74	54	63	58	55	55	52
49	107	108	89	88	78	75	58	63	77	77	61	65	60	60	57	58

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Effl.	Head Conc.	Passaic Effl.	Valley Conc.	Owl's Effl.	Head Conc.	Passaic Effl.	Valley Conc.	Owl's Effl.	Head Conc.	Passaic Effl.	Valley Conc.	Owl's Effl.	Head Conc.	Passaic Effl.	Valley Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
JAMAICA BAY (Cont'd)								KILL VAN KULL								
STATION 11								MILE 3								
2	2	0	0	0	3	0	0	0	39	39	85	85	1	1	10	85
4	5	0	0	0	4	0	0	0	62	74	91	126	11	13	72	126
6	2	2	0	0	5	2	0	0	82	98	147	147	21	22	79	147
8	6	3	0	1	7	3	0	1	107	110	167	152	34	32	124	152
11	3	6	0	2	3	6	0	2	116	118	159	159	49	49	142	159
16	10	9	2	3	7	9	1	3	141	122	155	172	71	71	193	172
21	11	13	4	6	14	13	4	6	138	130	194	185	88	93	201	185
26	17	17	9	10	17	17	9	10	128	138	195	200	107	107	210	200
31	23	23	15	16	24	23	17	16	144	144	230	215	116	112	256	215
36	32	30	26	24	29	30	23	24	156	150	207	230	122	118	278	230
41	36	37	32	33	35	37	28	33	138	159	194	250	125	122	288	250
46	44	45	38	42	48	45	45	42	160	165	229	270	128	130	288	270
49	50	52	46	48	49	52	48	48	169	170	265	280	132	132	265	280
MILE 6								ARTHUR KILL				MILE 9				
2	0	0	0	0	0	0	5	10	0	0	0	0	0	0	5	3
4	0	0	11	17	6	6	38	38	1	0	0	0	4	4	18	15
6	4	4	25	30	15	17	66	67	0	0	1	9	9	9	37	34
8	9	9	42	42	25	28	86	90	0	0	3	3	17	17	50	60
11	16	17	71	54	36	40	106	112	1	0	5	5	29	29	72	98
16	21	25	61	70	58	54	198	145	2	2	0	9	40	43	146	138
21	35	33	85	84	73	66	215	178	5	5	5	14	53	52	166	170
26	45	40	103	100	91	78	253	205	9	9	14	20	66	62	198	190
31	45	46	113	113	97	90	236	236	14	14	26	28	73	70	222	215
36	57	54	127	130	107	102	266	260	20	20	39	37	78	80	236	240
41	62	62	145	145	110	110	288	288	28	28	55	49	88	88	251	260
46	63	70	145	158	113	125	278	310	35	35	62	62	97	94	253	275
49	73	73	151	165	119	130	288	325	42	42	70	70	100	100	264	285
MILE 12								ARTHUR KILL (Cont'd)				MILE 15				
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
6	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
8	1	0	3	0	0	0	1	3	0	0	0	0	0	0	0	0
11	3	0	10	0	0	3	1	9	0	0	0	0	0	0	1	0
16	3	0	0	1	7	7	29	30	0	0	0	5	1	0	5	5
21	3	3	2	4	14	13	50	48	5	5	6	12	3	3	12	12
26	7	7	11	12	19	18	64	64	14	14	17	25	6	6	21	25
31	14	14	26	25	19	24	80	75	26	26	42	41	12	11	35	41
36	23	23	37	36	24	29	88	88	39	39	65	57	19	18	55	57
41	30	32	53	48	33	35	88	100	52	54	73	73	24	26	61	73
46	42	42	59	63	40	43	106	112	59	84	73	83	33	35	78	83
49	46	46	75	73	45	48	121	120	64	68	80	86	43	43	96	86
ARTHUR KILL (Cont'd)								NEWARK BAY								
MILE 18								MILE 2								
2	0	0	0	0	0	0	0	0	11	11	75	75	0	0	0	1
4	0	0	0	0	0	0	0	0	26	30	100	128	0	0	3	6
6	0	0	0	0	0	0	1	0	47	47	160	160	2	2	13	14
8	0	0	0	0	0	0	1	0	60	62	180	180	5	6	28	28
11	0	0	0	0	0	0	1	0	75	79	211	205	13	14	59	56
16	0	0	0	0	0	0	1	0	97	100	214	220	29	29	104	95
21	0	2	7	8	2	2	6	8	110	110	246	230	45	43	138	138
26	1	8	27	22	7	8	16	22	116	115	256	242	58	58	166	170
31	32	19	52	37	17	19	42	37	128	190	288	258	65	71	194	198
36	36	33	49	54	27	33	54	54	135	175	277	270	85	85	222	220
41	57	48	73	72	39	48	71	72	128	131	256	282	91	93	239	239
46	65	61	77	90	52	61	102	90	138	140	266	300	100	100	250	250
49	70	68	83	100	58	68	116	100	138	141	298	305	100	105	253	260

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water				
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	
Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
NEWARK BAY																	
MILE 4																	
2	0	0	7	10	0	0	0	0	-	-	-	-	-	-	-	-	-
4	9	11	55	45	0	0	2	2	1	1	7	7	0	0	0	0	0
6	19	20	75	80	0	0	5	7	8	8	25	23	0	0	0	0	0
8	28	29	100	110	2	2	17	18	9	10	42	42	-	0	-	-	1
11	44	42	138	140	6	6	29	37	19	18	61	61	1	1	3	3	3
16	63	63	191	180	17	17	69	65	34	34	103	100	-	5	-	-	12
21	82	82	208	210	27	27	82	93	50	50	141	141	9	9	28	24	24
26	97	97	235	220	40	40	113	118	66	64	173	173	-	14	-	-	35
31	103	110	247	240	49	49	138	138	78	78	197	200	21	19	63	48	48
36	116	118	256	256	57	57	155	155	94	90	217	225	-	26	-	-	60
41	119	120	288	275	67	69	177	177	100	100	235	242	30	33	67	73	73
46	128	125	278	290	72	74	190	190	107	107	235	250	-	39	-	-	83
49	128	128	288	305	77	77	197	200	110	110	241	250	44	44	78	88	88

HACKENSACK RIVER (Cont'd)

Cycle	MILE 6				MILE 10				MILE 15				MILE 20				
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	
Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	0	0	1	1	-	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	5	5	0	0	0	0	0	0	1	0	0	0	0	0	0
8	2	2	12	14	-	0	-	0	0	0	1	0	-	0	-	0	0
11	6	7	30	30	0	0	2	2	2	2	3	2	0	0	0	0	0
16	17	17	67	56	-	1	-	9	2	2	8	10	-	0	-	0	0
21	29	26	86	84	4	3	15	17	5	5	18	18	1	1	0	0	0
26	39	37	113	113	-	6	-	26	9	9	32	30	-	3	-	1	1
31	48	48	142	140	13	9	42	36	15	15	51	43	6	6	0	0	0
36	59	60	162	165	-	12	-	47	20	19	57	58	-	9	-	3	3
41	66	70	180	188	8	16	70	58	25	25	72	72	14	13	3	5	5
46	78	80	201	201	-	19	-	70	34	32	92	90	-	18	-	6	6
49	85	85	208	210	11	22	64	76	36	36	103	103	20	20	8	8	8

HACKENSACK RIVER (Cont'd)

Cycle	MILE 15				MILE 20			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	
2	-	-	-	-	-	-	-	-
4	0	0	0	0	0	0	0	0
6	0	0	1	0	0	0	1	0
8	0	0	1	0	0	0	1	0
11	0	0	1	0	0	0	1	0
16	0	0	2	2	-	0	-	0
21	0	0	3	3	0	0	1	0
26	1	1	4	5	-	0	-	1
31	1	2	6	7	1	1	2	2
36	3	3	11	11	-	1	-	3
41	4	4	15	15	2	2	5	5
46	7	6	21	21	-	3	-	7
49	8	8	25	25	4	4	8	9

PASSAIC RIVER

Cycle	MILE 3				MILE 6				MILE 9			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	
4	0	0	1	1	-	-	-	-	-	-	-	-
6	1	1	10	13	0	0	1	1	1	1	1	1
8	3	3	15	22	-	0	-	1	1	1	1	3
11	6	7	32	37	0	0	3	3	3	3	3	8
16	16	17	71	62	-	4	-	4	4	4	4	19
21	29	29	100	90	8	8	29	29	29	29	29	32
26	35	40	113	120	-	12	-	12	12	12	12	45
31	51	51	145	145	17	17	62	62	62	62	62	58
36	61	63	166	170	-	23	-	23	23	23	23	71
41	69	73	187	190	27	29	86	86	86	86	86	82
46	82	80	204	210	-	34	-	34	34	34	34	92
49	82	82	211	215	38	38	92	92	92	92	92	97

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
PASSAIC RIVER (Cont'd)																
MILE 6								MILE 10								
4	0	0	1	1	-	0	-	0	0	0	3	0	-	0	3	0
6	0	0	3	3	0	0	2	0	0	0	3	0	0	0	3	0
8	0	0	4	4	-	0	-	0	0	0	3	0	-	0	-	0
11	0	0	5	7	0	0	3	0	0	0	3	1	0	0	3	0
16	2	2	11	15	-	0	-	2	0	0	3	3	-	0	-	0
21	6	6	27	27	1	1	5	5	0	0	5	5	0	0	3	0
26	11	11	42	40	-	2	-	9	1	1	7	7	-	0	-	1
31	14	15	55	54	-	4	14	13	1	2	9	10	1	0	5	2
36	19	20	77	67	-	6	-	18	3	3	15	15	-	0	-	3
41	25	26	79	81	7	8	21	23	5	5	19	19	1	1	5	4
46	31	31	88	94	-	10	-	29	7	7	27	27	-	2	-	6
49	36	34	103	100	12	12	32	32	7	8	30	31	2	2	7	8

PASSAIC RIVER (Cont'd)

MILE 15																
4	0	0	3	0	-	0	-	0	0	0	3	0	-	0	-	0
6	0	0	3	0	0	0	3	0	0	0	3	0	-	0	-	0
8	0	0	3	0	-	0	-	0	0	0	3	0	-	0	-	0
11	0	0	3	0	0	0	4	0	0	0	3	1	0	0	3	0
16	1	0	8	0	-	0	-	0	0	0	3	3	-	0	-	0
21	0	0	3	0	0	0	4	0	0	0	3	3	-	0	-	0
26	1	0	4	1	-	0	-	0	0	0	3	3	-	0	-	0
31	0	0	5	2	1	0	4	0	0	0	3	3	-	0	-	0
36	1	1	4	3	-	0	-	0	0	0	3	3	-	0	-	0
41	1	1	4	4	1	0	4	0	0	0	3	3	-	0	-	0
46	2	2	8	6	-	0	-	0	0	0	3	3	-	0	-	0
49	1	2	8	7	1	0	3	0	0	0	3	3	-	0	-	0

UPPER BAY

STATION 9																
1	16	16	68	92	16	7	176	92								
3	49	46	149	137	28	23	197	137								
5	80	80	201	162	40	45	78	162								
7	100	103	225	180	49	70	132	180								
10	132	125	170	204	107	98	182	204								
15	147	147	223	235	156	125	233	235								
20	166	166	297	265	125	141	256	265								
25	169	178	276	285	163	155	-	285								
30	178	187	286	307	153	165	372	307								
35	194	194	295	323	178	172	210	323								
40	156	197	222	335	175	178	307	335								
45	197	200	402	340	169	180	340	340								
50	194	200	316	345	181	182	403	345								

UPPER BAY (Cont'd)

	STATION 11								STATION 13							
	1	3	5	7	10	15	20	25	1	3	5	7	10	15	20	25
1	26	26	36	36	0	0	15	15	3	3	29	29	44	44	30	30
3	59	60	55	136	22	18	122	120	33	25	96	110	79	84	54	56
5	78	86	172	163	33	36	124	158	62	76	152	145	110	110	70	72
7	107	103	171	180	51	52	187	180	103	100	167	167	116	143	-	83
10	119	120	188	198	71	73	208	208	128	120	213	188	153	166	72	96
15	147	138	219	217	91	93	257	240	138	143	159	212	191	180	81	113
20	156	150	239	226	113	110	267	270	147	162	223	230	235	193	133	128
25	153	160	250	237	128	125	299	295	175	178	253	242	129	200	149	143
30	166	169	233	248	135	136	330	306	181	190	275	257	206	207	156	158
35	181	172	200	260	141	147	330	325	185	198	275	273	216	210	176	178
40	150	172	265	270	150	155	351	348	194	204	284	290	148	210	148	197
45	172	172	264	280	156	162	372	369	210	210	315	305	148	210	234	217
50	178	172	296	290	169	167	393	390	206	210	327	320	187	210	221	240

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 13A								STATION 13B								
1	3	3	7	4	41	9	41	41	10	7	33	14	64	7	11	
3	32	19	88	88	66	122	137	91	71	83	108	92	153	138	68	
5	59	77	134	146	191	146	88	107	78	120	108	116	97	168	128	
7	88	93	183	168	97	158	396	116	110	143	152	131	222	138	115	
10	110	106	199	184	141	168	180	124	191	170	209	152	197	213	123	
15	135	119	212	201	172	172	221	136	194	187	220	180	245	246	182	
20	138	125	191	217	175	174	264	147	206	192	167	208	284	272	216	
25	210	131	208	230	175	176	125	159	172	195	189	232	264	295	199	
30	119	137	267	246	191	178	306	171	203	200	167	254	371	310	211	
35	139	142	298	262	203	179	192	187	141	205	184	276	303	325	183	
40	139	148	287	280	172	180	146	201	197	210	295	292	168	330	158	
45	148	154	287	300	185	180	210	219	219	215	294	308	264	336	249	
50	168	160	308	320	175	181	114	238	225	220	315	320	158	340	179	
UPPER BAY (Cont'd)																
STATION 14A								STATION 15A								
1	158	10	0	0	72	5	0	0	30	11	59	50	0	0	0	
3	94	130	22	20	8	6	3	5	34	34	74	98	7	6	5	
5	160	157	53	58	12	7	9	7	84	64	205	130	16	14	13	
7	188	170	71	80	9	7	8	8	97	95	140	150	24	24	27	
10	187	184	99	97	11	7	10	9	119	125	160	157	39	40	40	
15	187	195	114	112	10	8	11	11	144	135	127	166	48	54	68	
20	197	195	116	118	11	9	11	12	144	141	170	175	57	57	55	
25	197	195	123	124	9	10	12	13	132	147	212	185	61	60	62	
30	197	195	130	129	10	11	12	14	135	153	245	196	62	62	80	
35	139	195	130	134	12	12	15	16	172	159	189	208	67	66	102	
40	197	195	141	140	54	13	66	18	181	166	146	219	69	70	95	
45	119	195	149	145	15	14	19	19	153	172	201	231	72	73	108	
50	139	195	151	150	16	16	26	22	138	179	298	243	73	76	108	
UPPER BAY (Cont'd)																
STATION 16								STATION 17								
1	47	47	43	43	18	18	0	0	128	125	3	3	21	15	1	
3	116	116	88	84	24	27	29	23	185	160	53	46	19	19	3	
5	75	158	205	116	32	33	35	42	172	180	92	83	19	21	8	
7	181	185	136	135	38	38	63	56	194	196	105	112	24	22	9	
10	197	192	145	144	47	48	63	69	203	217	105	135	17	23	11	
15	226	200	155	152	64	65	95	77	255	242	163	145	40	24	22	
20	197	205	167	160	91	78	157	86	294	260	157	155	24	26	23	
25	110	210	102	170	82	90	111	96	313	270	171	167	30	27	22	
30	226	217	219	181	113	103	213	108	264	280	156	180	30	29	26	
35	226	223	241	192	119	113	74	122	274	290	191	193	30	32	31	
40	226	230	187	204	128	123	106	136	245	300	214	206	22	34	28	
45	235	237	272	216	113	133	192	152	332	310	223	221	37	36	43	
50	177	242	189	229	113	141	106	170	264	320	192	238	31	38	41	
UPPER BAY (Cont'd)																
STATION 18								STATION 19								
1	12	12	64	64	6	12	45	13	739	320	0	0	72	57	0	
3	80	44	162	165	40	44	56	52	410	400	66	66	88	100	11	
5	100	78	214	200	69	78	84	91	361	420	97	100	113	125	37	
7	119	110	267	218	78	110	129	130	536	430	131	117	144	136	53	
10	216	136	186	228	122	136	186	185	623	440	166	136	172	140	64	
15	158	155	222	242	138	155	194	180	361	460	217	162	150	149	68	
20	158	162	276	260	186	162	193	190	545	480	185	184	169	159	90	
25	168	170	244	278	175	170	199	202	-	500	-	200	172	170	96	
30	158	176	297	296	188	176	217	216	545	520	210	215	178	180	103	
35	206	182	306	315	194	182	230	230	458	540	223	228	238	190	121	
40	168	190	650	338	153	180	186	242	603	560	222	238	129	202	127	
45	187	198	424	360	175	198	264	260	497	585	248	243	158	215	136	
50	187	205	328	383	181	205	243	275	632	610	230	247	162	230	118	

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 20								STATION 22								
1	15	22	75	68	2	2	2	19	19	47	47	3	3	6	6	
3	80	70	140	145	19	19	50	37	75	78	147	145	37	39	41	40
5	116	116	202	196	31	35	49	59	103	115	203	193	49	57	60	67
7	150	150	233	226	43	49	74	74	153	146	233	220	66	67	95	90
10	141	177	448	240	61	62	91	90	166	177	190	230	107	78	85	107
15	213	188	262	253	75	74	104	110	203	203	231	239	97	92	129	113
20	197	198	402	270	88	84	140	127	210	216	273	248	103	103	100	119
25	231	209	250	287	91	90	135	142	222	220	208	257	110	110	124	124
30	234	220	272	302	97	95	160	153	241	220	250	265	116	117	142	131
35	206	233	306	320	97	100	153	164	206	220	274	274	122	123	138	138
40	187	250	317	340	110	105	184	175	235	220	282	286	122	125	142	145
45	158	264	500	360	110	110	202	188	216	220	305	298	128	127	159	151
50	177	280	339	380	110	115	177	200	187	220	307	310	122	127	159	159
HUDSON RIVER																
MILE -15				MILE -12												
1	6	2	0	0	0	3	0	0	0	0	0	0	18	18	0	0
3	6	3	0	0	11	9	2	2	9	3	12	110	106	52	40	
5	6	6	0	0	15	16	12	10	23	22	27	24	119	117	77	80
7	10	10	0	0	24	23	19	20	18	27	15	29	107	122	107	116
10	15	15	8	7	29	29	35	31	50	30	55	32	172	127	156	147
15	18	25	19	25	33	33	36	37	36	35	31	38	150	136	182	161
20	33	35	39	42	40	39	47	44	40	43	38	45	156	147	175	172
25	46	44	61	55	56	46	62	51	49	50	46	54	153	159	164	182
30	57	55	59	66	60	52	59	59	71	60	79	64	197	170	205	194
35	65	64	80	77	71	61	69	68	62	71	80	76	231	182	214	207
40	72	72	94	90	71	72	79	79	94	85	96	90	194	194	216	220
45	76	77	108	107	80	82	86	92	94	102	93	108	194	210	227	235
50	77	80	108	124	103	96	103	107	107	120	110	127	200	226	255	250
HUDSON RIVER (Cont'd)																
MILE -9				MILE 2												
1	0	0	3	2	4	4	76	76	0	0	5	4	0	0	0	0
3	3	5	9	8	50	50	244	255	25	20	76	76	4	4	6	6
5	9	12	13	17	103	105	257	300	49	47	111	115	10	13	15	18
7	15	18	20	26	113	122	363	330	70	74	127	140	19	21	30	36
10	28	26	42	38	150	140	351	360	97	100	186	163	34	33	63	62
15	34	38	52	55	156	158	393	370	113	111	150	176	49	49	86	84
20	45	50	74	68	178	170	424	380	116	117	193	188	57	58	92	91
25	60	52	80	78	191	180	391	395	119	123	332	202	62	62	103	100
30	73	72	94	92	222	192	401	410	128	129	107	217	65	65	113	108
35	85	81	115	105	222	205	422	420	144	135	235	232	69	68	121	117
40	91	90	125	122	216	220	433	432	132	141	235	250	72	71	127	127
45	97	101	135	140	216	235	508	448	175	148	233	265	74	74	134	138
50	107	113	143	160	238	255	400	460	144	156	288	283	76	77	137	150
HUDSON RIVER (Cont'd)																
MILE 4				MILE 6												
1	4	4	78	5	0	0	0	0	4	4	1	1	0	0	0	0
3	11	13	17	18	1	0	1	2	13	13	16	18	0	0	0	0
5	19	23	47	40	5	5	8	8	18	24	15	27	3	3	0	0
7	24	33	56	64	10	12	14	17	33	33	36	36	8	7	3	3
10	52	47	100	97	21	21	35	36	42	42	52	44	12	14	6	7
15	65	68	122	118	34	34	61	58	63	56	64	55	24	24	16	17
20	85	82	135	126	40	42	70	63	60	63	50	61	29	29	20	23
25	88	85	149	135	46	46	62	69	72	68	60	68	34	33	27	27
30	88	88	142	144	50	49	72	76	72	72	74	75	35	35	33	32
35	94	92	152	155	53	52	86	82	85	78	92	82	40	37	40	35
40	94	97	148	165	58	55	93	90	85	84	92	91	42	41	37	38
45	100	100	198	177	59	59	100	100	88	90	99	102	44	43	40	41
50	103	104	187	190	62	62	107	110	91	97	102	111	44	48	46	46

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 8								MILE 10								
1	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
3	12	10	7	7	0	0	0	0	11	10	7	6	0	0	0	0
5	22	22	17	17	1	0	0	0	19	18	11	13	0	0	0	0
7	34	33	27	27	5	5	0	0	26	25	21	21	2	2	0	0
10	34	44	37	37	8	10	2	2	32	35	30	30	4	5	0	0
15	53	54	49	47	17	16	9	9	47	47	50	42	10	10	4	4
20	59	58	57	52	22	21	15	14	51	51	55	45	14	14	7	9
25	66	62	63	56	23	23	15	16	56	54	37	48	18	18	12	13
30	72	66	56	59	27	25	19	19	60	57	51	51	20	19	11	16
35	72	70	63	63	29	28	25	22	63	61	65	54	21	21	20	18
40	72	75	56	67	31	31	20	25	64	64	65	58	23	22	20	20
45	78	81	74	71	33	34	28	29	65	68	65	62	24	24	22	22
50	78	87	74	77	36	38	33	33	71	72	45	66	26	26	21	24

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 12								MILE 14								
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	7	4	4	4	0	0	0	0	3	3	7	6	0	0	0	0
5	14	14	10	14	0	0	0	0	7	7	13	12	0	0	0	0
7	23	20	22	22	0	0	0	0	11	11	20	20	1	0	1	0
10	30	29	31	32	2	2	0	0	17	17	33	34	1	0	1	0
15	40	40	45	45	6	7	2	2	27	27	50	49	4	4	7	7
20	50	48	56	56	11	11	7	7	35	34	65	54	7	7	13	13
25	50	54	60	64	14	14	9	11	39	38	55	59	10	10	17	17
30	57	58	69	68	16	16	12	13	47	41	66	65	12	12	21	21
35	60	62	74	72	19	18	15	15	43	43	69	72	13	13	23	25
40	63	64	74	74	20	20	19	17	47	47	77	79	16	15	29	29
45	66	66	75	75	21	21	18	18	51	50	86	86	16	18	32	34
50	69	67	60	76	22	22	19	19	53	53	97	95	19	20	37	39

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 16								MILE 18								
1	0	0	2	1	0	0	0	0	0	2	0	0	0	0	0	0
3	0	0	3	3	1	0	0	0	0	2	0	0	0	0	0	0
5	2	2	6	6	0	0	0	0	0	3	4	0	0	0	0	0
7	4	4	10	10	0	0	1	1	2	2	6	6	0	0	1	1
10	9	9	17	19	0	0	2	2	4	6	8	10	0	0	0	0
15	17	17	34	33	2	2	5	5	11	11	22	18	2	2	5	5
20	22	22	42	42	5	5	10	10	13	13	22	22	3	3	7	7
25	26	25	48	47	9	8	16	15	15	14	26	26	5	5	10	10
30	32	27	57	52	8	9	17	17	16	16	31	31	7	7	14	13
35	30	30	60	58	11	11	21	20	22	18	44	36	9	9	20	20
40	33	33	63	65	14	12	24	23	21	21	44	42	9	9	20	20
45	36	36	69	72	14	14	26	27	22	23	47	50	11	11	20	23
50	40	40	82	80	16	16	31	31	25	26	50	58	12	13	24	28

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 20								MILE 24								
1	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	3	3	0	0	0	0	0	1	0	0	0	0	0	0
5	0	0	4	4	0	0	1	0	0	1	0	0	0	0	0	0
7	1	1	5	5	0	0	1	1	0	0	1	1	0	0	0	0
10	2	2	6	8	0	0	2	2	1	1	2	2	0	0	0	0
15	6	5	14	13	1	1	4	4	3	3	4	5	0	0	0	0
20	8	9	17	18	2	2	5	7	6	6	9	9	0	0	1	1
25	12	12	24	23	4	4	9	10	11	8	14	12	2	2	3	3
30	14	14	24	27	8	6	17	14	11	10	19	15	3	3	4	4
35	17	16	33	31	8	8	19	16	11	12	18	18	4	4	7	7
40	18	18	37	36	9	9	18	18	12	14	20	20	5	6	12	8
45	19	19	41	40	8	10	19	20	18	16	28	25	7	8	11	11
50	19	20	41	44	10	10	20	22	16	18	22	28	8	11	13	14

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 28								MILE 32								
1	-	0	-	0	-	-	-	-	-	0	0	0	0	-	-	-
3	0	0	2	0	-	-	-	-	0	0	0	0	-	-	-	-
5	0	0	2	0	-	-	-	-	0	0	0	0	-	-	-	-
7	0	0	2	0	-	-	-	-	0	0	0	0	-	-	-	-
10	0	0	0	1	-	-	-	-	0	0	1	0	-	-	-	-
15	1	1	2	2	-	-	-	-	0	0	1	1	-	-	-	-
20	2	2	3	3	-	-	-	-	1	0	2	2	-	-	-	-
25	2	3	4	5	-	-	-	-	1	1	3	3	-	-	-	-
30	4	4	9	7	-	-	-	-	2	2	4	4	-	-	-	-
35	8	8	15	9	-	-	-	-	2	3	5	5	-	-	-	-
40	8	8	18	12	-	-	-	-	3	4	5	7	-	-	-	-
45	8	10	15	18	-	-	-	-	11	5	13	9	-	-	-	-
50	12	13	19	20	-	-	-	-	8	7	11	12	-	-	-	-

Cycle	MILE 3				MILE 5				MILE 5							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
1	82	82	1	1	8	5	3	3	107	90	1	1	1	0	2	2
3	82	100	26	26	9	7	3	5	110	112	17	24	9	0	3	2
5	113	113	43	48	18	8	8	6	119	126	37	38	4	0	3	3
7	125	121	67	62	16	9	6	7	138	135	61	48	5	0	4	3
10	141	131	55	75	5	11	5	8	153	140	57	58	6	0	5	4
15	141	141	94	88	11	14	9	11	150	145	75	72	4	1	4	4
20	158	150	104	98	21	17	19	13	144	147	91	84	2	2	5	5
25	160	154	104	108	10	20	8	15	160	149	90	95	2	2	4	6
30	156	158	111	111	16	24	13	18	153	150	107	107	2	3	5	7
35	160	160	125	120	24	27	20	21	144	152	119	119	4	4	6	8
40	156	163	129	129	20	31	26	24	144	156	119	127	4	5	8	8
45	160	168	140	137	32	34	39	27	150	158	129	134	8	7	10	9
50	144	170	141	143	19	38	31	30	156	160	140	140	8	8	14	10

Cycle	MILE 7				MILE 9				MILE 9							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
1	53	45	0	1	0	0	0	0	13	13	0	0	1	0	0	0
3	53	61	8	8	0	0	0	0	20	25	2	3	0	0	0	0
5	56	70	16	16	0	0	0	0	25	30	9	9	0	0	0	0
7	88	78	30	25	0	0	0	0	36	33	14	15	0	0	0	0
10	78	88	36	36	0	0	0	0	38	38	18	20	0	0	0	0
15	94	100	48	43	0	0	0	0	45	44	23	26	0	0	0	0
20	128	112	57	50	1	1	0	0	56	50	33	32	0	0	0	0
25	91	122	51	53	1	2	0	0	43	54	28	37	0	0	0	0
30	141	130	58	60	2	2	0	0	58	58	43	42	0	0	0	0
35	122	140	58	64	3	3	0	0	64	62	46	46	1	1	0	0
40	122	142	87	68	3	4	0	0	58	64	51	50	2	2	0	0
45	153	148	75	70	5	5	1	0	61	66	55	54	4	4	0	0
50	141	150	66	72	7	7	3	0	66	68	56	58	6	6	1	0

Cycle	MILE 11				MILE 13				MILE 13							
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
EAST RIVER																
1	2	2	2	2	-	-	-	-	0	0	2	1	-	0	-	-
3	8	8	6	6	0	0	0	0	0	0	3	2	0	0	3	0
5	11	9	10	10	0	0	0	0	1	1	3	2	0	0	3	0
7	14	10	14	14	0	0	0	0	2	1	4	3	0	0	3	0
10	11	12	14	17	0	0	0	0	2	2	5	3	0	0	3	0
15	17	15	22	22	0	0	0	0	2	2	5	4	0	0	3	0
20	23	17	32	27	0	0	0	0	3	3	6	5	0	0	3	0
25	13	20	17	31	0	0	0	0	3	4	6	7	0	0	3	0
30	22	23	32	36	0	0	0	0	3	4	7	8	0	0	4	0
35	26	25	39	41	0	0	0	0	4	5	8	9	1	0	5	0
40	22	27	35	41	0	0	0	0	6	6	10	10	2	0	7	0
45	29	29	55	52	0	0	0	0	8	7	14	12	4	0	10	0
50	29	31	51	56	0	0	0	0	8	8	16	13	6	0	14	0

Table 6 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
EAST RIVER (Cont'd)																
MILE 15								MILE 17								
1	0	0	2	0	-	0	0	0	0	0	2	0	-	-	-	-
3	0	0	3	0	0	0	2	0	0	0	3	0	0	0	2	0
5	0	0	3	0	0	0	3	0	0	0	3	0	0	0	3	0
7	0	0	3	0	0	0	4	0	0	0	3	0	0	0	3	0
10	0	0	3	0	0	0	3	0	0	0	3	0	0	0	3	0
15	0	0	3	0	0	0	3	0	0	0	3	0	0	0	4	0
20	0	0	3	0	0	0	3	0	0	0	3	0	0	0	3	0
25	0	0	3	0	0	0	4	0	0	0	3	0	0	0	3	0
30	0	0	4	0	0	0	4	0	1	0	4	0	0	0	4	0
35	1	0	5	0	1	0	5	0	1	0	5	0	1	0	5	0
40	3	0	7	0	3	0	7	0	3	0	7	0	2	0	8	0
45	4	0	10	0	4	0	10	0	4	0	10	0	3	0	11	0
50	6	0	14	0	6	0	15	0	6	0	14	0	8	0	18	0

Cycle	EAST RIVER (Cont'd)								HEAD BAY							
	MILE 20												MILE 13			
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
1	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
3	0	0	0	0	-	-	-	-	0	0	0	0	-	-	-	-
5	0	0	1	0	-	-	-	-	0	0	0	0	-	-	-	-
7	0	0	1	0	-	-	-	-	0	0	1	0	-	-	-	-
10	0	0	1	0	-	-	-	-	0	0	1	0	-	-	-	-
15	0	0	0	0	-	-	-	-	1	0	1	0	-	-	-	-
20	0	0	0	0	-	-	-	-	1	0	1	0	-	-	-	-
25	0	0	0	0	-	-	-	-	2	0	1	0	-	-	-	-
30	1	0	0	0	-	-	-	-	2	-	1	0	-	-	-	-
35	2	0	1	0	-	-	-	-	3	0	3	0	-	-	-	-
40	4	0	5	0	-	-	-	-	6	0	8	0	-	-	-	-
45	6	0	10	0	-	-	-	-	8	0	18	0	-	-	-	-
50	8	0	13	0	-	-	-	-	11	0	18	0	-	-	-	-

Cycle	RIKERS ISLAND CHANNEL															
	MILE 12								MILE 13							
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
1	1	0	1	0	-	-	-	-	0	0	2	0	-	-	-	-
3	4	4	3	3	0	0	2	0	1	0	3	0	0	0	2	0
5	6	6	7	7	0	0	3	0	1	1	3	0	0	0	3	0
7	13	7	14	9	0	0	3	0	3	2	4	1	0	0	3	0
10	11	9	9	11	0	0	3	0	1	2	3	2	0	0	3	0
15	13	11	13	14	0	0	4	0	3	3	5	3	0	0	2	0
20	13	13	18	18	1	0	5	0	3	4	5	4	0	0	3	0
25	8	15	6	21	0	0	3	1	1	4	4	5	0	0	3	0
30	15	18	18	25	1	0	4	2	3	5	6	6	1	0	4	1
35	21	20	29	29	1	1	5	3	6	6	10	7	1	1	5	2
40	20	21	28	33	2	2	6	5	4	7	9	8	2	2	6	4
45	24	24	35	38	4	4	10	7	6	7	14	10	3	4	2	6
50	33	26	48	42	6	6	14	10	10	8	18	11	6	6	13	10

Cycle	FLUSHING BAY								HARLEM RIVER							
	MILE 15												MILE 3			
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
1	0	0	2	0	-	-	-	-	0	0	0	0	-	-	-	-
3	0	0	3	0	0	0	2	0	3	1	0	3	3	0	3	0
5	0	0	3	0	0	0	3	0	4	4	0	7	6	0	6	1
7	0	0	3	0	0	0	3	0	6	6	2	9	9	1	10	2
10	1	0	3	0	1	0	3	0	9	10	8	11	8	3	12	4
15	1	0	3	0	1	0	4	0	14	14	14	15	10	6	11	8
20	1	0	4	0	1	0	4	0	16	16	19	19	13	7	14	10
25	1	1	4	1	1	1	4	1	20	19	23	24	9	9	11	13
30	2	2	5	2	1	2	4	2	22	22	29	29	11	11	14	15
35	2	3	6	3	2	2	5	3	24	24	36	34	14	13	19	19
40	4	4	7	4	3	3	6	4	26	26	40	40	14	15	23	23
45	5	5	10	6	4	4	9	6	26	28	44	44	17	18	27	26
50	7	7	14	8	5	5	11	8	29	29	48	50	20	20	32	31

Table 6 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HARLEM RIVER (Cont'd)																
MILE 8																
1	0	0	0	0	-	0	-	0								
3	0	0	0	0	9	9	3	3								
5	0	0	0	0	16	16	13	15								
7	1	1	0	0	17	20	22	22								
10	3	3	0	1	25	25	28	27								
15	7	5	6	6	31	30	36	35								
20	10	11	11	11	39	35	45	42								
25	14	14	15	15	36	40	44	49								
30	16	16	19	19	41	43	53	55								
35	18	18	26	26	47	47	61	62								
40	19	19	31	30	46	50	62	68								
45	21	21	33	35	51	53	78	73								
50	22	22	47	42	56	55	76	78								

Table 5

Plant Effluent Concentrations in Parts per Billion

Jamaica Bay and Newtown Creek Treatment Plants

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY																
STATION L2												STATION L7				
4	-	0	-	17	-	0	-	5	-	0	-	0	-	0	-	0
6	0	0	49	52	0	0	18	16	0	0	0	0	0	0	0	0
8	0	0	73	87	0	0	25	33	0	0	1	1	0	0	0	0
11	1	1	123	123	0	0	55	62	0	0	10	10	0	0	1	1
16	3	3	158	156	-	2	-	96	0	0	18	29	-	0	-	13
21	6	6	202	183	4	4	123	118	0	0	60	58	0	0	36	31
26	9	8	166	207	-	6	-	136	1	0	93	92	-	0	-	55
31	10	10	197	227	6	7	130	151	1	1	107	125	1	1	69	81
36	11	12	219	244	-	9	-	166	2	2	150	152	-	2	-	105
41	13	14	251	260	13	11	207	179	3	3	164	180	3	3	126	122
46	14	15	272	271	-	12	-	188	5	4	214	200	-	4	-	137
49	16	15	315	278	12	13	189	192	5	5	234	211	4	5	123	142
LOWER BAY (Cont'd)																
STATION L10												STATION L12				
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
8	7	0	17	1	-	0	-	1	0	0	1	1	-	0	-	1
11	0	0	3	5	0	0	2	3	0	0	3	4	0	0	2	4
16	0	0	22	21	-	0	-	7	0	0	7	17	-	0	-	17
21	0	0	66	50	0	0	14	15	0	0	66	39	0	0	39	39
26	1	1	87	85	-	0	-	27	2	0	137	70	-	0	-	70
31	2	2	130	125	8	0	41	39	2	1	91	108	9	1	91	108
36	7	3	159	159	-	0	-	51	2	3	112	150	-	3	-	150
41	5	5	176	186	1	1	55	60	5	5	187	187	2	5	223	187
46	7	7	212	212	+	2	-	67	10	8	243	210	-	8	-	210
49	6	8	194	223	2	2	80	71	7	10	180	220	10	10	218	220
LOWER BAY (Cont'd)																
STATION L14												STATION L17				
4	0	0	1	0	0	0	3	0	0	0	0	0	0	0	1	1
6	0	0	3	0	0	0	3	0	0	0	2	2	0	0	8	9
8	0	0	3	1	-	0	-	1	0	0	10	10	-	0	-	24
11	0	0	4	4	0	0	3	3	0	0	13	31	0	0	62	60
16	0	0	18	15	-	0	-	10	1	0	87	78	-	0	-	130
21	0	0	4	34	0	0	23	23	2	1	105	105	3	1	162	162
26	1	1	66	63	-	0	-	42	2	3	105	125	-	3	-	190
31	2	2	98	101	0	1	66	68	4	5	130	146	0	5	205	210
36	3	4	112	142	-	2	-	100	7	7	166	167	-	7	-	225
41	7	6	87	180	4	4	137	132	8	9	187	187	12	9	236	240
46	10	9	236	210	-	6	-	158	10	12	204	206	-	12	-	250
49	10	11	218	222	7	7	173	170	14	14	254	218	14	14	250	255
LOWER BAY (Cont'd)																
STATION L19												STATION L20				
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	1	0	-	0	-	0	0	0	2	0	-	0	-	0
8	0	0	1	2	-	0	-	2	0	0	1	3	-	0	-	3
11	0	0	1	10	0	0	4	10	0	0	14	13	0	0	2	13
16	0	0	32	36	-	0	-	36	0	0	32	34	-	0	-	34
21	1	0	76	59	0	0	26	59	3	2	85	58	1	2	62	58
26	1	2	87	84	-	2	-	84	3	3	87	83	-	3	-	83
31	3	3	112	108	1	3	73	108	5	5	123	110	0	5	51	110
36	4	4	130	130	-	4	-	130	5	7	126	137	-	7	-	137
41	6	6	144	150	6	6	123	150	13	10	155	162	8	10	144	162
46	7	8	158	164	-	8	-	164	8	12	180	184	-	12	-	184
49	9	9	173	170	9	9	144	170	13	13	193	195	10	13	146	195

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
	STATION L21								LOWER BAY (Cont'd)				STATION L23			
4	0	0	0	0	-	0	-	0	0	0	0	0	-	0	-	0
6	0	0	1	1	-	0	-	1	0	0	0	0	-	0	-	0
8	0	0	2	2	-	0	-	2	0	0	3	3	-	0	-	3
11	0	0	3	4	0	0	3	4	0	0	12	11	0	0	7	11
16	0	0	9	11	-	0	-	11	0	0	26	27	-	0	-	27
21	0	0	26	24	0	0	25	24	1	1	49	46	1	1	36	46
26	1	1	39	40	-	1	-	40	3	3	60	66	-	3	-	66
31	3	3	75	59	2	3	76	59	4	5	92	88	2	5	80	88
36	4	4	76	80	-	4	-	80	8	7	112	112	-	7	-	112
41	6	6	105	101	6	6	84	101	9	9	126	134	8	9	134	134
46	8	8	123	122	-	8	-	122	12	12	154	155	-	12	-	155
49	9	9	137	134	8	9	101	134	14	14	172	168	12	14	143	168

LOWER BAY (Cont'd)																
STATION L26																
Cycle	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
4	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0
6	0	0	6	2	-	0	-	2	0	0	6	6	0	0	6	6
8	0	0	4	6	-	0	-	6	0	0	11	13	0	0	23	13
11	0	0	11	13	0	0	23	13	0	0	20	25	-	1	-	25
16	0	0	20	25	-	1	-	25	5	5	36	37	5	5	66	37
21	2	2	36	37	5	5	66	37	5	5	57	51	-	15	-	51
26	3	3	57	51	-	15	-	51	27	27	48	65	29	27	79	65
31	5	5	48	65	29	27	79	65	7	7	66	80	-	43	-	80
36	8	7	66	80	-	43	-	80	60	58	82	93	60	58	84	93
41	10	10	82	93	60	58	84	93	-	68	104	104	-	68	-	104
46	13	13	104	104	-	68	-	104	60	72	96	110	60	72	96	110
49	15	15	118	110	60	72	96	110								

LOWER BAY (Cont'd)																
STATION 8A																
Cycle	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	4	12	0	0	2	10	0	0	31	37	1	0	26	28
5	0	0	31	37	1	0	26	28	0	0	60	60	0	0	36	45
7	1	0	60	60	0	0	36	45	1	0	94	84	1	0	76	61
10	1	1	94	84	1	0	76	61	4	4	105	111	2	2	76	80
15	4	4	105	111	2	2	76	80	6	7	126	135	5	5	98	98
20	6	7	126	135	5	5	98	98	11	10	179	158	8	8	162	115
25	11	10	179	158	8	8	162	115	11	11	172	181	11	11	161	132
30	13	13	172	181	11	11	161	132	14	14	189	202	14	14	154	150
35	16	17	189	202	14	14	154	150	17	17	232	223	17	17	157	166
40	21	21	232	223	17	17	157	166	20	20	239	243	18	20	175	182
45	22	24	239	243	18	20	175	182	22	22	269	261	22	22	197	197
50	27	27	269	261	22	22	197	197								

LOWER BAY (Cont'd)																
STATION 9A								STATION 10A								
Cycle	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
3	0	0	62	86	0	0	94	86	0	0	4	4	0	0	5	5
5	1	0	101	143	0	0	133	143	0	0	4	7	0	0	26	19
7	2	0	184	184	1	0	194	184	0	0	10	11	0	0	65	40
10	2	1	198	212	1	0	212	212	0	0	16	21	0	0	66	77
15	3	3	266	240	1	1	240	240	1	2	53	41	2	2	116	114
20	5	5	273	252	2	2	252	252	3	4	66	62	4	4	133	133
25	8	7	230	260	3	2	252	260	6	6	80	85	7	6	155	150
30	9	9	252	268	3	3	273	268	10	8	115	110	10	8	172	166
35	12	11	272	276	3	4	295	276	11	11	129	136	16	11	161	180
40	9	13	316	284	4	5	252	284	14	14	154	160	14	14	181	191
45	15	15	304	293	5	5	263	293	18	18	172	182	16	18	207	202
50	15	16	358	302	6	6	295	302	21	22	204	200	26	22	201	209

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
JAMAICA BAY																
STATION J0								STATION J1								
2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
4	0	0	0	0	3	3	1	1	0	0	5	5	4	4	1	0
6	0	0	0	1	15	15	8	12	1	1	14	14	25	28	1	1
8	0	0	4	5	26	32	22	24	11	9	24	24	65	65	7	6
11	0	0	12	12	30	61	52	40	30	30	36	35	132	132	14	14
16	1	1	24	24	144	112	55	55	75	72	43	46	245	250	29	29
21	3	3	32	36	197	170	63	68	16	98	68	57	526	390	20	46
26	8	5	50	50	206	230	81	81	12	121	61	66	536	550	50	62
31	6	8	69	64	342	290	88	95	153	142	68	77	75	720	72	76
36	16	11	84	78	333	350	106	108	21	164	82	86	75	895	90	86
41	13	15	72	92	226	400	140	124	125	186	88	96	128	1050	110	96
46	15	18	80	103	419	440	134	136	194	208	102	105	235	1210	118	105
49	17	20	80	110	448	460	144	144	216	216	101	111	340	1300	116	111
JAMAICA BAY (Cont'd)																
STATION J2								STATION J3								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	1	4	3	35	35	0	0	3	3	0	0	155	65	0	0
6	9	12	11	10	81	81	0	1	26	26	0	1	208	220	0	0
8	26	27	16	19	69	144	5	3	64	64	5	5	333	390	0	0
11	47	57	34	30	254	240	5	6	135	135	7	8	635	635	0	0
16	122	103	38	42	439	420	14	15	263	252	18	13	950	880	0	0
21	163	153	48	50	584	605	31	28	396	375	18	19	1140	1090	0	0
26	206	202	59	57	622	780	35	42	491	500	29	25	1140	1280	0	0
31	254	245	63	64	700	940	45	56	680	620	21	30	1680	1490	0	0
36	264	285	74	70	182	1080	96	68	680	720	32	36	1590	1670	0	0
41	284	318	73	76	235	1210	111	76	770	815	37	40	1640	1850	0	0
46	312	338	85	80	290	1300	122	80	860	880	44	44	2040	2040	0	0
49	342	345	74	82	340	1310	131	82	910	900	27	45	2140	2140	0	0
JAMAICA BAY (Cont'd)																
STATION J4								STATION J5								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	2	1	1	1	1	1	0	0	10	8	8	9	1	0
6	0	0	3	6	20	25	3	6	3	3	24	24	46	49	0	0
8	0	0	8	12	45	58	11	13	6	6	38	38	114	114	0	1
11	1	1	20	20	107	107	23	23	10	12	53	51	231	240	2	2
16	2	2	30	28	232	202	37	35	25	22	64	64	475	395	3	4
21	4	4	45	37	264	300	66	47	28	30	84	75	506	525	19	6
26	10	6	61	47	400	390	60	58	34	38	74	84	635	650	30	9
31	6	9	51	58	497	475	62	72	48	47	96	92	950	800	7	13
36	11	12	68	70	473	550	81	86	72	56	108	100	910	950	20	17
41	14	15	90	83	484	610	102	102	62	66	95	105	1040	1100	28	21
46	18	18	75	96	465	650	121	117	83	77	122	110	1270	1270	23	25
49	19	20	86	105	691	670	123	127	70	83	97	112	1360	1360	15	28
JAMAICA BAY (Cont'd)																
STATION J6								STATION J7								
2	0	0	1	0	-	0	-	0	0	0	0	0	-	0	-	0
4	1	1	2	2	13	13	0	0	15	17	0	0	7	17	0	0
6	12	13	8	11	54	62	0	0	62	62	0	0	43	62	0	0
8	28	31	18	18	88	140	1	0	137	132	0	1	109	132	3	0
11	65	69	23	26	318	285	0	1	239	265	2	3	271	265	0	0
16	132	132	40	35	381	460	8	7	459	500	6	9	538	500	0	0
21	200	200	56	43	569	620	15	10	725	740	4	18	860	740	0	0
26	224	267	51	50	910	780	11	12	587	990	32	29	1090	990	0	0
31	459	330	50	58	1180	960	0	14	691	1240	40	41	1270	1240	0	0
36	499	390	55	65	1180	1160	10	16	130	1470	84	52	1450	1470	0	0
41	467	445	68	72	1230	1380	21	18	290	1680	58	62	1590	1680	0	0
46	461	485	82	78	1500	1600	19	20	290	1820	83	72	1820	1820	0	0
49	459	505	82	82	1680	1730	0	21	400	1900	67	76	1910	1900	0	0

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
JAMAICA BAY (Cont'd)																
STATION J8								STATION J9								
2	0	0	2	0	17	29	0	0	0	0	1	0	8	10	0	0
4	27	47	10	5	247	145	0	0	6	6	1	1	88	78	0	0
6	106	112	9	9	287	340	0	0	22	18	3	3	173	180	0	0
8	193	185	9	12	522	600	0	0	46	39	10	7	287	305	0	0
11	271	290	18	15	1000	1000	0	0	109	90	15	17	412	455	0	0
16	522	480	25	18	1410	1410	0	0	177	202	36	36	680	620	0	4
21	770	670	26	21	1730	1700	0	0	279	285	48	48	820	765	12	13
26	820	860	14	23	1860	1900	0	0	373	355	54	58	910	910	21	19
31	950	1040	18	25	2090	2090	0	0	435	420	65	67	1000	1040	16	26
36	1090	1200	25	27	2180	2220	0	0	491	490	76	76	1100	1170	32	33
41	1350	1340	26	29	2270	2350	0	0	538	550	85	84	1270	1300	41	40
46	1410	1410	27	30	2410	2420	0	0	635	610	94	90	1410	1400	45	48
49	1410	1450	37	31	2500	2480	0	0	635	650	91	94	1500	1470	55	54
JAMAICA BAY (Cont'd)																
STATION J10								STATION J12								
2	3	5	1	0	247	280	0	0	13	17	0	0	-	590	-	0
4	33	26	0	0	680	700	0	0	24	66	2	0	1090	1090	0	0
6	80	63	1	1	910	910	0	0	185	155	0	0	1270	1360	0	0
8	124	120	4	3	1040	1050	0	0	255	265	0	0	1360	1550	0	0
11	208	220	10	8	1230	1230	0	0	420	420	0	2	1950	1780	0	0
16	357	350	20	23	1860	1500	0	0	577	600	5	6	2180	2060	0	0
21	467	450	37	36	1910	1720	0	0	770	735	21	10	2180	2300	0	0
26	590	550	48	44	1910	1920	0	0	820	860	31	16	2500	2500	0	0
31	635	650	44	51	2270	2130	0	0	950	980	25	24	2860	2640	0	0
36	725	750	58	57	2550	2310	0	0	1090	1100	25	32	2860	2780	0	0
41	860	850	65	63	2450	2500	0	0	1180	1210	42	42	2770	2880	0	0
46	950	950	64	68	2500	2620	0	0	1320	1310	50	53	2950	2940	0	0
49	1000	1000	73	71	2500	2700	0	0	1360	1380	55	60	2950	2950	0	0
JAMAICA BAY (Cont'd)																
STATION J13								STATION J14								
2	49	180	1	0	231	180	0	0	1	0	1	0	1	0	1	0
4	65	420	2	0	-	390	-	0	5	21	1	0	11	8	1	0
6	590	690	0	0	569	560	0	0	5	98	3	0	15	33	2	0
8	1230	920	0	0	635	700	0	0	208	208	0	0	44	81	2	0
11	1000	1150	0	0	635	845	0	0	279	395	0	0	168	205	4	0
16	1270	1450	0	0	860	1075	0	0	770	700	0	0	483	450	0	0
21	1770	1690	0	0	1320	1290	0	0	1090	1000	0	0	860	705	0	0
26	1910	1910	0	0	1500	1500	0	0	1320	1300	0	0	950	960	0	0
31	2500	2130	0	0	1950	1710	0	0	1510	1560	0	0	1180	1200	0	0
36	2360	2360	0	0	2050	1930	0	0	1820	1800	0	0	1360	1410	0	0
41	2590	2510	0	0	2180	2130	0	0	1910	1960	0	0	1590	1600	0	0
46	2590	2680	0	0	2090	2300	0	0	1990	2080	1	0	1680	1720	0	0
49	2640	2750	2	0	2360	2410	0	0	2090	2100	3	0	1800	1800	0	0
JAMAICA BAY (Cont'd)																
STATION J15								STATION J16								
2	1	0	1	0	-	0	0	0	37	32	0	0	83	90	1	0
4	5	3	1	0	10	3	0	0	59	69	1	0	287	265	0	0
6	4	15	3	0	52	15	0	0	93	113	0	0	491	491	0	0
8	8	36	2	0	18	36	1	0	161	161	2	2	725	725	0	0
11	46	82	1	0	59	82	0	0	295	247	5	5	950	950	0	0
16	83	200	1	0	111	200	0	0	412	400	13	13	1320	1190	0	0
21	404	375	0	0	224	375	0	0	546	550	30	22	1450	1390	0	0
26	635	590	0	0	451	590	0	0	680	680	35	31	1540	1580	0	0
31	770	800	0	0	820	800	0	0	770	790	30	40	1680	1760	0	0
36	1000	1000	0	0	820	1000	0	0	820	900	42	48	1730	1900	0	0
41	1180	1180	6	0	1090	1180	0	0	1040	1005	49	54	2050	2050	0	0
46	1410	1360	0	0	1270	1360	0	0	1090	1110	61	61	2130	2130	1	0
49	1590	1460	7	0	1360	1460	0	0	1140	1170	59	65	2130	2210	5	0

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
RARITAN CHANNEL																
MILE 24								MILE 30								
2	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
4	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
6	0	0	1	0	0	0	1	0	0	0	1	9	0	0	1	0
8	0	0	1	0	0	0	1	0	0	0	20	19	0	0	1	1
11	0	0	2	2	0	0	0	0	0	35	33	0	0	3	5	5
16	0	0	6	10	0	0	-	10	0	0	29	59	-	0	-	20
21	0	0	26	26	0	0	30	26	2	0	134	88	1	0	108	47
26	1	0	61	50	-	9	-	50	1	1	31	120	-	1	-	78
31	1	1	67	83	1	1	80	83	2	2	91	152	1	2	66	123
36	1	2	108	117	-	2	-	117	3	4	101	185	-	4	-	153
41	1	3	66	149	4	3	148	149	7	7	194	217	7	7	205	190
46	4	4	177	173	-	4	-	173	10	9	243	242	-	9	-	210
49	5	5	169	182	5	5	158	182	11	11	261	258	8	11	202	220
RARITAN CHANNEL (Cont'd)																
MILE 35								MILE 40								
2	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
4	-	0	-	0	-	0	-	0	0	1	1	0	0	1	1	1
6	0	0	80	82	0	0	1	0	0	0	14	14	0	0	22	14
8	1	0	108	108	0	0	4	5	0	0	26	33	-	0	-	33
11	2	1	169	132	0	0	45	47	0	0	73	73	0	0	87	53
16	3	3	184	167	-	2	-	120	1	2	116	116	-	2	-	75
21	4	5	198	200	3	3	162	150	3	4	130	145	4	4	180	97
26	8	8	209	228	-	4	-	173	6	6	190	171	-	6	-	120
31	12	10	240	267	4	5	180	191	9	8	212	197	3	8	140	145
36	13	12	272	283	-	7	-	203	10	10	229	221	-	10	-	172
41	13	14	304	310	7	8	212	212	12	12	244	244	12	12	208	202
46	15	15	336	333	-	9	-	220	14	14	266	266	-	14	-	230
49	16	16	336	347	10	10	225	227	15	15	251	280	15	15	240	250
KILL VAN KULL																
MILE 3								MILE 6								
2	0	*	148	143	0	*	51	56	0	0	3	4	0	0	1	5
4	0	0	173	187	0	0	148	107	0	0	18	22	0	0	25	28
6	0	0	230	212	0	0	144	144	0	0	44	42	1	0	65	63
8	0	0	241	233	0	0	158	166	1	0	55	60	1	0	94	102
11	0	0	252	260	0	0	187	188	1	0	105	87	2	0	141	142
16	1	1	263	293	0	0	198	220	1	0	126	126	1	0	198	183
21	1	1	273	320	1	1	220	247	2	0	151	161	3	1	248	215
26	1	1	284	342	1	1	188	270	2	0	184	189	4	1	230	242
31	2	2	316	360	1	1	284	290	2	0	198	206	4	2	252	267
36	2	2	380	370	2	2	327	308	3	1	219	222	4	2	273	288
41	3	3	402	380	2	2	316	320	4	2	244	234	4	3	295	305
46	3	3	370	380	3	3	359	330	4	2	237	242	5	4	316	320
49	3	3	359	380	2	2	295	332	4	3	248	248	6	4	327	327
ARTHUR KILL (Cont'd)																
MILE 9								MILE 12								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	1	4	0	0	6	6	0	0	1	0	0	0	1	0
6	0	0	12	7	0	0	52	63	0	0	1	4	1	0	5	4
8	0	0	13	9	1	0	98	102	0	0	12	11	0	0	16	17
11	0	0	11	13	2	0	130	130	0	0	13	16	0	0	31	31
16	0	0	22	24	2	0	187	163	0	0	7	25	0	0	48	55
21	0	0	36	39	3	0	234	190	0	0	17	36	1	0	79	77
26	0	0	61	60	3	0	209	212	0	0	48	50	1	0	98	98
31	1	0	76	83	3	1	220	236	1	1	65	68	1	0	123	120
36	1	0	94	103	3	1	252	252	2	2	94	90	2	1	137	142
41	2	0	123	123	4	1	263	273	3	3	123	118	2	2	158	162
46	3	1	144	145	5	3	284	284	3	4	148	150	3	3	184	184
49	3	1	158	158	5	3	295	295	5	5	166	173	3	3	194	197

* Data too erratic to define curve

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
ARTHUR KILL (Cont'd)																
MILE 15								MILE 18								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	
6	0	0	1	0	0	0	2	0	0	0	2	0	0	0	2	
8	0	0	1	0	0	0	4	0	0	0	2	0	0	0	3	
11	0	0	1	1	0	0	5	1	0	0	1	1	0	0	1	
16	0	0	13	14	0	0	13	8	0	0	11	8	0	0	6	
21	0	0	48	48	0	0	26	26	0	0	32	30	0	0	26	
26	1	1	80	80	0	0	48	48	1	1	66	68	0	0	66	
31	2	2	112	108	1	0	66	67	2	2	105	98	1	1	91	
36	3	3	144	135	1	1	87	87	3	3	119	125	2	2	123	
41	4	4	158	163	2	2	112	112	4	4	155	152	3	3	151	
46	6	6	187	193	3	3	137	137	6	6	184	180	5	5	176	
49	7	7	202	210	3	4	155	155	6	7	198	198	6	6	198	
NEWMARK BAY																
MILE 2								MILE 4								
2	0	0	18	26	-	0	-	0	0	0	3	3	-	0	-	
4	0	0	73	73	7	0	3	3	1	0	22	28	1	0	0	
6	1	0	130	120	9	0	13	13	2	0	69	61	1	0	8	
8	2	9	177	157	1	0	29	32	1	0	80	96	1	0	13	
11	3	0	219	190	1	0	72	72	2	0	133	135	9	0	35	
16	3	1	220	227	3	0	119	125	2	0	205	173	1	0	66	
21	4	2	241	260	7	0	169	156	4	1	198	206	2	0	112	
26	5	2	284	288	2	0	228	184	5	2	220	235	2	0	169	
31	6	3	295	313	3	0	188	210	4	3	263	263	2	0	184	
36	6	4	316	336	3	1	209	232	5	4	295	292	2	0	212	
41	6	5	348	355	3	1	252	252	5	4	316	315	3	1	230	
46	7	5	370	370	4	2	273	273	8	5	337	337	3	1	255	
49	6	5	370	375	4	2	284	284	5	5	337	350	3	1	266	
HACKENSACK RIVER																
MILE 3								MILE 6								
2	-	-	-	0	-	-	-	0	-	-	0	-	-	-	0	
4	0	-	4	6	-	-	-	0	0	-	1	1	-	-	0	
6	0	-	20	21	2	-	2	2	0	-	5	6	0	-	0	
8	2	-	44	44	-	-	-	3	0	-	13	13	-	-	1	
11	4	-	69	77	2	-	6	7	0	-	30	27	0	-	3	
16	7	-	116	110	-	-	-	21	1	-	59	59	-	-	9	
21	12	-	165	140	4	-	43	43	3	-	98	98	1	-	18	
26	15	-	165	167	-	-	-	59	3	-	148	134	-	-	30	
31	3	-	188	195	20	-	75	73	2	-	166	166	11	-	44	
36	18	-	229	223	-	-	-	86	8	-	180	191	-	-	58	
41	3	-	252	252	23	-	93	98	3	-	205	213	11	-	68	
46	4	-	273	280	-	-	-	110	3	-	228	230	-	-	78	
49	4	-	284	297	12	-	114	116	7	-	240	240	1	-	84	
HACKENSACK RIVER (Cont'd)																
MILE 10								MILE 15								
2	0	-	-	9	-	-	-	0	-	-	0	-	-	-	0	
4	0	-	1	0	-	-	-	0	1	-	2	0	-	-	0	
6	0	-	2	0	1	-	2	0	1	-	2	0	2	-	0	
8	1	-	2	0	-	-	-	0	1	-	2	0	-	-	0	
11	0	-	3	3	1	-	2	0	1	-	1	1	0	-	0	
16	0	-	8	9	-	-	-	3	1	-	2	2	-	-	0	
21	0	-	20	21	1	-	7	7	8	-	3	3	1	-	1	
26	1	-	41	37	-	-	-	14	0	-	5	5	-	-	2	
31	1	-	58	57	7	-	17	23	1	-	8	8	1	-	4	
36	6	-	69	78	-	-	-	34	3	-	10	13	-	-	6	
41	1	-	76	96	4	-	48	47	0	-	22	20	10	-	10	
46	1	-	101	109	0	-	-	57	1	-	30	31	-	-	16	
49	4	-	119	112	9	-	62	62	1	-	39	39	0	-	21	

* Data too erratic to define curve

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
PASSAIC RIVER																
MILE 3												MILE 6				
4	0	*	3	3	-	*	-	0	0	*	1	0	-	*	-	0
6	0		7	8	0		1	0	0		2	0	0		1	0
8	0		10	14	-		-	2	0		1	1	-		-	0
11	0		28	27	0		3	4	0		3	3	0		1	0
16	0		70	57	-		-	13	0		10	10	-		-	1
21	1		94	94	1		30	26	0		22	21	0		4	4
26	2		137	134	-		-	43	1		53	37	-		-	8
31	23		157	170	7		63	62	4		60	56	4		13	14
36	2		194	194	-		-	80	1		73	76	-		-	23
41	19		207	210	9		91	93	3		94	96	3		32	33
46	27		227	220	-		-	104	8		112	114	-		-	43
49	22		243	226	12		108	109	4		134	126	2		50	49

PASSAIC RIVER (Cont'd)																
MILE 10												MILE 15				
4	0	*	1	0	-	*	-	0	0	*	3	*	-	*	-	*
6	0		1	0	0		2	0	1		2		1		1	
8	0		2	0	-		-	0	1		3		-		-	-
11	0		3	1	0		2	0	1		4		1		2	-
16	0		3	3	-		-	0	1		3		-		-	-
21	0		3	5	0		2	1	2		2		1		2	-
26	1		11	8	-		-	2	6		3		-		-	-
31	2		9	11	2		3	3	1		2		1		2	-
36	0		19	17	-		-	5	1		7		-		-	-
41	1		23	24	1		7	7	9		4		8		6	-
46	2		31	33	-		-	11	1		4		-		-	-
49	1		40	39	2		14	14	0		5		3		6	-

UPPER BAY																
STATION 5												STATION 11				
1	0	0	55	68	0	0	34	68	0	0	62	70	0	0	51	52
3	2	0	156	137	0	0	76	137	1	0	162	162	0	0	62	93
5	2	0	156	170	1	0	155	170	2	0	134	202	1	0	105	123
7	2	0	209	194	2	0	194	194	3	0	220	230	2	0	141	153
10	3	1	230	220	3	0	177	220	3	1	263	260	2	0	191	191
15	3	2	209	260	3	1	240	260	4	1	316	305	2	0	244	237
20	5	3	370	290	3	1	305	290	5	2	370	340	3	1	263	270
25	7	4	305	318	4	2	327	318	5	3	380	367	3	1	284	297
30	9	6	316	340	5	3	337	340	4	3	337	390	4	2	316	318
35	11	8	336	360	5	3	402	360	5	4	391	410	4	2	348	337
40	13	11	336	375	6	4	348	375	6	4	412	420	5	3	348	348
45	17	13	347	386	6	5	380	386	6	5	412	428	6	4	359	359
50	11	15	390	390	7	5	412	390	7	5	434	430	6	4	370	365

UPPER BAY (Cont'd)																
STATION 13												STATION 13A				
1	0	0	0	0	0	0	18	22	0	0	1	0	0	0	0	0
3	0	0	6	23	0	0	77	71	0	0	10	26	0	0	96	107
5	0	0	42	38	1	0	144	105	0	0	53	47	1	0	144	140
7	0	0	45	47	-	0	-	133	0	0	62	61	-	0	-	168
10	1	0	61	59	2	0	202	145	1	0	66	76	2	0	202	181
15	2	1	73	77	3	0	156	173	3	1	96	96	-	0	-	210
20	7	3	155	96	3	1	177	197	7	4	190	116	3	1	241	230
25	9	7	162	115	4	2	209	218	9	7	190	135	4	1	263	250
30	12	10	176	137	4	3	273	238	12	10	208	153	4	2	198	260
35	15	14	155	157	5	5	273	255	14	13	155	171	4	3	220	270
40	20	17	165	180	8	7	240	270	19	17	187	189	4	3	273	273
45	22	21	197	203	13	9	229	280	21	20	208	205	5	4	230	273
50	27	25	240	225	11	10	294	289	27	24	219	219	6	4	273	273

* Data too erratic to define curve

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 13B								STATION 14A								
1	0	0	0	0	0	1	1	0	0	57	64	0	0	25	40	
3	0	0	13	11	0	0	69	69	1	0	130	140	0	0	84	104
5	0	0	21	26	1	0	80	90	2	0	187	184	1	0	162	154
7	0	0	48	44	-	0	-	105	2	0	220	212	2	0	187	183
10	1	0	80	72	1	0	123	123	3	1	241	238	1	0	194	207
15	3	1	101	95	2	0	198	147	3	2	263	267	2	0	234	230
20	7	2	112	110	3	1	188	168	4	2	305	282	3	1	269	238
25	8	5	123	123	4	2	188	186	5	3	337	292	3	2	252	243
30	12	9	161	136	7	4	134	202	4	3	284	303	3	2	177	248
35	16	14	189	147	10	6	133	217	5	3	316	316	3	2	188	257
40	22	20	218	158	13	9	144	230	4	3	295	328	3	2	241	263
45	27	24	243	164	11	11	187	239	5	3	337	340	4	2	230	269
50	29	27	251	170	14	13	176	245	6	3	370	350	4	2	252	275

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 15A								STATION 16								
1	-	0	-	33	-	0	-	11	0	0	38	100	0	0	11	11
3	0	0	73	88	0	0	31	37	1	0	166	166	0	0	55	50
5	0	0	133	133	0	0	66	63	2	0	102	195	1	0	101	91
7	0	0	187	163	0	0	87	88	2	0	220	217	1	0	155	132
10	0	0	208	190	0	0	116	111	3	1	230	247	1	0	169	170
15	0	0	266	227	0	0	141	138	4	2	273	288	2	0	208	200
20	0	0	252	257	0	0	155	160	5	2	359	320	3	0	220	222
25	0	0	273	282	1	0	166	178	6	3	380	345	3	1	230	240
30	1	1	156	303	1	1	191	192	6	4	337	370	3	1	209	254
35	1	1	198	322	1	1	209	205	7	5	380	385	3	1	241	263
40	1	2	220	338	1	1	216	216	7	7	380	400	3	2	230	270
45	2	2	230	348	1	1	223	223	9	8	391	407	4	2	252	270
50	3	3	263	353	1	2	223	230	10	8	411	410	4	2	273	270

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 17								STATION 18								
1	-	0	-	113	2	0	158	105	0	0	1	1	0	0	18	50
3	1	0	158	170	2	0	194	131	0	0	39	47	0	0	116	128
5	2	0	194	197	3	0	198	150	0	0	109	86	1	0	194	160
7	2	0	156	220	3	0	188	165	1	0	112	116	2	0	209	182
10	3	1	241	248	2	0	166	183	2	0	134	137	3	0	209	210
15	4	2	305	285	3	1	209	212	3	1	216	168	3	0	230	243
20	5	3	359	315	3	1	240	232	6	2	263	194	3	1	305	272
25	6	3	391	340	3	2	252	252	9	5	198	218	4	2	327	297
30	5	4	284	360	3	2	188	266	13	8	187	240	4	2	263	316
35	7	4	380	372	3	2	263	280	13	11	219	262	4	3	305	332
40	6	5	348	383	4	2	305	390	14	15	272	282	5	3	337	344
45	7	5	370	388	3	2	166	295	17	18	315	298	6	4	348	352
50	7	5	380	390	4	2	241	298	21	20	347	310	6	4	348	357

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
1	0	0	73	100	0	0	132	100	0	0	9	10	0	0	11	10
3	2	0	226	200	2	0	177	220	0	0	105	120	0	0	98	110
5	3	1	220	250	3	1	198	295	1	0	166	158	2	0	173	140
7	3	1	284	284	4	1	370	340	2	0	214	183	3	0	166	158
10	4	2	305	317	5	2	380	380	3	1	258	211	3	1	188	184
15	5	3	370	357	6	3	434	425	4	2	252	252	3	1	230	218
20	5	3	412	380	6	3	487	450	6	3	284	284	4	2	305	246
25	6	4	412	400	6	4	444	460	8	4	295	312	4	2	284	272
30	6	4	370	408	6	4	466	470	10	6	304	337	4	3	273	294
35	7	5	412	414	7	5	477	480	9	7	359	359	5	3	295	313
40	8	5	391	420	7	5	477	490	10	9	369	372	5	4	316	330
45	9	6	412	430	7	6	498	498	10	10	379	387	6	4	348	343
50	9	6	434	440	8	6	551	506	10	10	422	395	6	4	370	352

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
	UPPER BAY (Cont'd)								HUDSON RIVER							
	STATION 22								Mile -15							
1	0	0	0	29	0	0	13	64	0	0	2	0	0	0	0	0
3	0	0	56	70	0	0	130	130	0	0	3	1	0	0	3	7
5	1	0	76	94	1	0	153	160	0	0	3	3	0	0	32	30
7	2	0	119	110	2	0	184	178	0	0	5	6	0	0	47	50
10	2	1	130	130	2	0	208	200	0	0	11	13	0	0	69	69
15	4	2	148	160	3	1	230	233	0	0	29	30	3	3	80	90
20	6	4	273	186	3	1	305	260	2	2	49	49	6	6	91	110
25	11	6	165	211	4	2	316	285	4	4	59	70	9	9	101	130
30	13	10	219	236	4	2	327	305	6	6	109	92	16	13	179	153
35	15	14	262	260	4	3	316	325	8	8	126	115	16	17	193	173
40	18	18	283	280	3	3	252	340	11	11	140	137	19	21	204	193
45	22	20	294	300	5	4	348	350	13	13	154	154	24	25	206	213
50	23	21	315	315	6	4	337	355	16	16	161	170	28	29	193	230

	HUDSON RIVER (Cont'd)								MILE -9							
	MILE -12												MILE -9			
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	2	2	0	0	32	65	0	0	3	6	0	0	73	73
5	0	0	1	5	0	0	98	96	0	0	16	13	0	0	137	134
7	0	0	8	9	0	0	141	112	0	0	20	19	0	0	198	172
10	0	0	16	16	0	0	134	134	0	1	25	30	1	1	226	206
15	1	3	26	30	1	1	116	160	3	3	53	50	1	2	248	240
20	9	5	75	46	2	2	241	185	4	5	62	71	3	2	273	263
25	8	8	84	65	4	3	219	206	16	8	93	95	3	3	273	282
30	11	12	86	86	5	5	230	225	12	13	122	120	4	4	263	296
35	13	16	97	106	6	6	255	241	19	18	139	145	4	4	295	304
40	30	21	121	128	8	8	269	255	25	25	172	168	4	5	284	306
45	21	27	154	146	9	10	198	266	18	33	179	188	5	5	295	309
50	33	33	157	165	11	11	219	275	44	44	206	206	4	5	316	311

	HUDSON RIVER (Cont'd)								MILE 4							
	MILE 2												MILE 4			
1	0	0	11	11	0	0	2	11	0	0	6	9	0	0	1	3
3	0	0	66	88	0	0	38	88	0	0	54	49	0	0	23	27
5	1	1	144	123	0	0	76	123	0	0	101	86	0	0	60	55
7	1	1	166	145	0	0	116	145	1	1	112	116	0	0	84	84
10	2	2	202	167	1	1	162	167	1	2	151	142	0	0	112	110
15	2	2	177	195	1	1	205	195	2	2	198	170	1	1	133	135
20	3	2	284	218	2	2	219	218	3	2	220	192	1	1	169	153
25	3	3	252	234	2	2	234	234	3	3	220	210	1	2	184	167
30	3	3	230	250	2	2	226	250	2	3	209	228	1	2	177	180
35	3	3	252	260	2	2	234	260	3	3	209	240	2	2	184	189
40	3	3	241	270	2	2	234	270	3	4	230	250	2	2	187	197
45	3	3	252	272	3	2	244	272	4	4	252	260	2	2	194	200
50	4	3	316	274	3	2	262	274	4	4	273	262	2	2	202	202

	HUDSON RIVER (Cont'd)								MILE 8							
	MILE 6												MILE 8			
1	0	0	8	8	0	0	1	7	0	0	10	10	0	0	3	3
3	0	0	52	41	0	0	26	29	0	0	62	62	0	0	16	18
5	0	0	76	79	0	0	56	56	0	0	105	100	0	0	38	38
7	1	1	126	115	0	0	87	79	0	0	151	125	0	0	65	58
10	1	1	148	148	0	0	98	98	1	1	166	145	0	0	76	78
15	2	2	187	177	0	0	116	118	2	2	187	170	0	0	98	98
20	3	2	226	200	1	1	141	134	2	2	223	188	1	1	119	113
25	3	3	220	220	1	1	155	148	2	2	198	202	1	1	137	126
30	3	3	220	237	2	2	166	160	2	2	198	214	1	1	134	138
35	3	3	263	250	2	2	173	171	3	3	209	222	1	1	144	149
40	3	3	230	260	1	2	176	178	3	3	220	227	1	1	158	158
45	3	4	241	267	2	2	184	184	3	3	241	230	1	1	166	166
50	4	4	263	270	2	2	187	187	3	3	220	230	1	1	169	170

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
HUDSON RIVER (Cont'd)																
MILE 10								MILE 12								
1	0	0	7	8	0	0	2	2	0	0	4	7	0	0	0	0
3	0	0	32	31	0	0	13	13	0	0	38	38	0	0	4	4
5	0	0	65	56	0	0	25	26	0	0	69	66	0	0	15	13
7	0	0	91	79	0	0	41	41	0	0	87	87	0	0	22	22
10	0	0	105	100	0	0	62	56	0	0	116	106	0	0	35	35
15	0	0	119	120	0	0	68	70	0	0	133	130	0	0	54	44
20	0	0	151	135	0	0	83	80	0	0	151	151	0	0	65	52
25	0	0	137	147	0	0	59	88	0	0	158	167	0	0	44	60
30	0	0	144	157	0	0	80	95	0	0	169	182	0	0	56	67
35	1	1	158	165	0	0	101	101	1	1	184	197	0	0	66	73
40	1	1	158	172	1	0	105	105	1	1	194	208	0	0	72	80
45	1	1	169	176	1	0	112	109	1	1	212	218	0	0	87	85
50	1	1	194	179	0	0	112	112	1	1	229	223	0	0	87	89
HUDSON RIVER (Cont'd)																
MILE 14								MILE 16								
1	0	0	12	12	0	0	0	0	0	0	4	4	0	0	0	0
3	0	0	39	39	0	0	2	3	0	0	17	17	0	0	1	1
5	0	0	69	63	0	0	8	11	0	0	31	32	0	0	5	5
7	0	0	73	68	0	0	20	20	0	0	47	47	0	0	13	12
10	0	0	91	93	0	0	22	29	0	0	63	62	0	0	23	24
15	0	0	112	112	0	0	44	38	0	0	85	75	0	0	35	37
20	1	0	130	127	0	0	57	45	0	0	87	85	0	0	52	45
25	0	0	158	141	0	0	52	52	0	0	76	93	0	0	58	52
30	0	0	126	152	0	0	51	59	0	0	87	100	0	0	40	57
35	0	0	144	163	0	0	66	66	0	0	108	106	0	0	45	62
40	0	0	151	172	0	0	73	71	0	0	108	110	0	0	61	67
45	1	1	194	180	0	0	83	76	0	0	108	112	0	0	66	71
50	1	1	176	184	1	0	80	80	0	0	112	113	0	0	81	73
HUDSON RIVER (Cont'd)																
MILE 18								MILE 20								
1	0	0	0	0	-	0	-	0	0	0	0	-	0	-	0	0
3	0	0	6	9	-	0	-	0	0	0	3	3	-	0	-	0
5	0	0	20	18	-	0	-	0	0	0	7	7	-	0	-	0
7	0	0	23	24	-	0	-	0	0	0	13	13	-	0	-	0
10	0	0	38	34	-	0	-	0	0	0	22	24	-	0	-	0
15	0	0	49	50	-	0	-	0	0	0	38	37	-	0	-	0
20	0	0	67	60	-	0	-	0	0	0	26	45	-	0	-	0
25	0	0	74	67	-	0	-	4	0	0	48	52	-	0	-	6
30	0	0	79	72	0	0	18	17	0	0	53	59	0	0	23	20
35	0	0	81	76	0	0	26	26	0	0	75	66	-	0	-	26
40	0	0	76	80	0	0	39	34	0	0	72	72	0	0	31	31
45	0	0	66	81	0	0	34	39	0	0	81	76	0	0	35	35
50	0	0	73	82	0	0	38	41	0	0	74	81	0	0	38	38
HUDSON RIVER (Cont'd)																
MILE 24								MILE 28								
1	0	0	0	0	-	0	-	0	0	0	0	-	0	-	0	0
3	0	0	0	1	-	0	-	0	0	0	1	1	-	0	-	0
5	0	0	3	5	-	0	-	0	0	0	2	3	-	0	-	0
7	0	0	12	8	-	0	-	0	0	0	4	5	-	0	-	0
10	0	0	12	12	-	0	-	0	0	0	8	8	-	0	-	0
15	0	0	20	19	-	0	-	0	0	0	11	13	-	0	-	0
20	0	0	40	27	-	0	-	0	0	0	17	19	-	0	-	0
25	0	0	43	34	-	0	-	0	0	0	22	25	-	0	-	0
30	0	0	39	40	-	0	-	0	0	0	39	31	-	0	-	0
35	0	0	36	46	-	0	-	0	0	0	41	37	-	0	-	0
40	0	0	36	51	-	0	-	0	0	0	44	42	-	0	-	0
45	0	0	47	54	-	0	-	0	0	0	43	46	-	0	-	0
50	0	0	58	55	-	0	-	0	0	0	47	49	-	0	-	0

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
HUDSON RIVER (Cont'd)																
MILE 2								EAST RIVER								
1	0	0	0	0	-	0	-	0	1	0	180	70	0	0	66	70
3	0	0	0	0	-	0	-	0	2	1	134	103	1	0	155	155
5	0	0	0	0	-	0	-	0	3	1	209	120	2	0	198	195
7	0	0	1	0	-	0	-	0	6	1	134	132	3	0	220	220
10	0	0	0	1	-	0	-	0	9	2	209	136	3	0	230	250
15	0	0	13	2	-	0	-	0	3	3	166	166	3	1	295	283
20	0	0	4	4	-	0	-	0	6	4	198	179	4	2	327	312
25	0	0	6	6	-	0	-	0	6	5	177	189	4	3	348	330
30	0	0	10	9	-	0	-	0	9	7	177	198	4	3	295	347
35	0	0	10	12	-	0	-	0	7	9	188	202	5	3	337	358
40	0	0	12	14	-	0	-	0	11	11	208	205	5	3	337	360
45	0	0	16	16	-	0	-	0	8	12	134	207	6	4	348	360
50	0	0	14	17	-	0	-	0	27	13	187	208	6	4	359	360
EAST RIVER (Cont'd)																
MILE 3					MILE 4											
1	2	0	177	130	0	0	94	83	0	*	107	155	3	*	305	300
3	3	1	230	200	1	0	176	142	2		220	212	3		305	360
5	3	1	220	230	2	0	177	186	2		241	238	5		509	390
7	13	1	284	250	3	0	220	227	3		198	258	7		391	408
10	4	2	273	273	3	0	241	260	3		273	276	8		477	412
15	4	2	327	292	3	1	284	298	3		348	292	4		305	417
20	4	4	220	300	4	2	327	320	4		305	308	5		455	422
25	15	5	358	303	4	2	359	338	8		637	312	13		422	427
30	9	7	230	306	4	3	305	350	4		284	315	9		391	438
35	7	9	273	308	4	3	348	358	10		-	318	9		455	445
40	14	10	326	308	6	4	337	362	6		305	320	18		497	452
45	15	12	326	308	6	4	348	362	5		316	322	13		326	460
50	15	13	304	308	7	5	359	362	10		327	324	22		411	464
EAST RIVER (Cont'd)																
MILE 5					MILE 6											
1	0	0	101	120	0	0	14	13	3	0	209	140	0	0	7	6
3	2	1	209	174	0	0	17	15	2	1	188	185	0	0	7	8
5	2	1	188	200	0	0	18	17	2	1	198	210	0	0	9	9
7	3	1	209	222	1	0	14	19	3	1	230	228	0	0	10	10
10	3	1	252	248	1	0	19	21	3	1	316	250	0	0	9	11
15	4	2	305	282	2	0	-	23	3	2	284	280	0	0	10	12
20	4	2	348	308	0	1	21	24	3	2	316	302	0	0	12	12
25	5	2	444	330	4	2	26	25	3	2	305	320	0	0	13	12
30	4	3	295	346	3	2	17	25	4	3	316	330	0	0	12	13
35	5	3	370	360	3	3	35	26	4	3	337	333	0	0	18	13
40	5	4	316	366	6	4	31	26	5	3	423	335	0	0	23	13
45	5	4	327	370	6	4	36	26	5	3	327	335	0	0	26	13
50	6	4	337	370	4	4	48	27	5	4	337	335	1	0	34	13
EAST RIVER (Cont'd)																
MILE 7					MILE 8											
1	3	0	241	220	0	0	5	5	3	0	273	240	0	0	6	6
3	3	1	263	280	0	0	6	6	3	1	241	292	0	0	6	7
5	3	1	305	310	0	0	6	7	3	1	327	327	0	0	6	8
7	3	1	327	333	0	0	8	8	4	1	327	350	0	0	8	9
10	4	1	348	357	0	0	8	8	4	1	327	375	0	0	8	9
15	4	2	337	380	0	0	9	9	4	2	412	400	0	0	12	10
20	5	2	402	395	0	0	10	10	4	2	423	412	0	0	10	11
25	4	2	380	402	0	0	10	10	5	2	434	418	0	0	10	11
30	5	2	402	410	0	0	11	10	4	2	380	422	0	0	12	11
35	5	3	434	417	0	0	16	10	5	3	412	426	0	0	17	11
40	5	3	444	422	0	0	21	11	5	3	444	430	0	0	21	11
45	6	3	423	430	0	0	27	11	5	3	412	432	0	0	27	12
50	5	3	380	440	0	0	38	11	5	3	412	434	1	0	39	12

* Data too erratic to define curve

Table 5 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
EAST RIVER (Cont'd)																
MILE 9								MILE 10								
1	3	0	284	240	0	0	8	7	3	0	305	200	0	0	3	5
3	3	1	273	293	0	0	6	9	3	0	273	244	0	0	6	6
5	4	1	380	324	0	0	7	10	4	0	359	275	0	0	5	7
7	4	1	327	347	0	0	11	10	3	0	273	295	0	0	7	8
10	4	1	337	370	0	0	11	10	3	1	284	318	0	0	12	9
15	4	2	370	390	0	0	9	11	3	1	316	346	0	0	9	10
20	4	2	402	400	0	0	10	11	3	2	337	360	0	0	6	11
25	4	2	423	400	0	0	11	11	4	2	402	370	0	0	16	11
30	4	2	380	400	0	0	12	11	4	2	359	370	0	0	19	12
35	5	3	402	400	0	0	20	11	4	2	370	370	0	0	14	12
40	6	3	434	400	0	0	18	11	5	3	402	370	0	0	21	13
45	5	3	391	400	0	0	22	11	5	3	348	370	0	0	25	13
50	5	3	370	400	1	0	36	12	5	3	348	370	1	0	30	13
EAST RIVER (Cont'd)																
MILE 11								MILE 12								
1	3	0	295	200	0	0	12	0	3	0	284	102	0	0	0	0
3	2	0	230	244	0	0	0	1	2	0	145	125	0	0	1	0
5	3	0	359	268	0	0	1	1	2	0	177	140	0	0	1	1
7	3	0	273	282	0	0	1	1	1	0	155	155	0	0	2	1
10	3	0	295	292	0	0	1	2	1	0	126	170	0	0	1	2
15	3	0	305	298	0	0	2	2	1	0	109	195	0	0	1	2
20	3	1	305	303	0	0	2	2	2	0	177	214	0	0	2	2
25	3	1	327	306	0	0	3	2	3	1	316	230	0	0	3	2
30	3	2	295	309	0	0	5	2	3	1	263	244	0	0	5	2
35	3	2	327	312	1	0	9	2	3	1	209	254	0	0	7	2
40	4	2	370	316	0	0	13	2	4	2	327	260	0	0	13	2
45	4	2	273	320	0	0	20	2	4	2	241	264	0	0	20	2
50	4	2	273	322	1	0	26	2	4	2	252	266	0	0	27	2
EAST RIVER (Cont'd)																
MILE 13								MILE 15								
1	0	0	76	47	0	0	0	0	-	0	-	0	-	0	-	0
3	0	0	39	58	0	0	1	0	0	0	1	1	0	0	0	0
5	0	0	69	66	0	0	1	0	0	0	3	3	0	0	1	0
7	1	0	103	73	0	0	1	0	0	0	5	5	0	0	0	0
10	0	0	66	82	0	0	1	0	0	0	8	6	0	0	1	0
15	1	0	94	97	0	0	1	0	0	0	4	8	0	0	1	0
20	0	0	48	109	0	0	2	0	0	0	4	10	0	0	1	0
25	1	0	144	120	0	0	2	0	0	0	11	11	0	0	2	0
30	1	0	66	131	0	0	4	0	0	0	8	12	0	0	5	0
35	1	0	137	140	0	0	7	0	0	0	20	13	0	0	8	0
40	2	0	162	148	0	0	14	0	0	0	20	13	0	0	14	0
45	2	0	137	155	0	0	20	0	1	0	25	13	0	0	20	0
50	3	0	159	159	9	9	26	0	1	0	34	13	0	0	27	0
EAST RIVER (Cont'd)																
MILE 17								MILE 20								
1	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
10	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
15	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
20	0	0	1	1	0	0	1	0	0	0	1	0	0	0	0	0
25	0	0	3	2	0	0	3	0	0	0	1	0	0	0	0	0
30	0	0	5	3	0	0	5	0	0	0	3	0	0	0	0	0
35	0	0	8	4	0	0	9	0	0	0	5	0	0	0	0	0
40	0	0	14	5	0	0	16	0	0	0	8	0	0	0	0	0
45	0	0	21	7	0	0	21	0	0	0	14	0	0	0	0	0
50	0	0	27	8	0	0	28	0	0	0	15	0	0	0	0	0

Table 5 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.		Jamaica Bay		Newtown Cr.	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
EAST RIVER (Cont'd)								RIKERS ISLAND CHANNEL								
HEADBAY								MILE 12								
1	-	0	-	0	-	0	-	0	1	0	295	102	0	0	4	4
3	0	0	0	0	-	0	-	0	0	0	116	130	0	0	6	5
5	0	0	0	0	-	0	-	0	0	0	220	146	0	0	3	6
7	0	0	0	0	-	0	-	0	1	0	209	160	0	0	6	6
10	0	0	1	0	-	0	-	0	0	0	188	176	0	0	6	7
15	0	0	0	0	-	0	-	0	0	0	209	198	0	0	24	8
20	0	0	1	0	-	0	-	0	0	0	134	216	0	0	10	8
25	0	0	3	0	-	0	-	0	0	0	145	230	0	0	22	9
30	0	0	5	0	-	0	-	0	1	0	252	239	0	0	8	9
35	0	0	8	0	-	0	-	0	1	0	273	248	0	0	22	9
40	0	0	12	0	-	0	-	0	2	0	316	250	0	0	16	10
45	0	0	17	0	-	0	-	0	1	0	209	250	0	0	19	10
50	0	0	21	0	-	0	-	0	2	0	209	250	0	0	28	10
RIKERS ISLAND CHANNEL (Cont'd)								FLUSHING BAY								
MILE 13								MILE 15								
1	0	0	76	33	0	0	1	1	-	0	-	6	-	0	-	6
3	0	0	130	42	1	0	2	1	0	0	7	8	0	0	10	8
5	0	0	35	47	0	0	2	2	0	0	9	9	0	0	10	9
7	0	0	51	52	0	0	1	2	0	0	14	10	0	0	14	10
10	0	0	38	58	0	0	8	2	0	0	12	11	0	0	19	11
15	0	0	76	66	0	0	1	2	0	0	12	13	0	0	20	13
20	0	0	20	73	0	0	3	3	0	0	15	13	0	0	19	14
25	0	0	80	79	0	0	2	3	0	0	13	14	0	0	14	14
30	0	0	14	84	0	0	3	3	0	0	12	15	0	0	15	15
35	0	0	126	88	0	0	10	3	0	0	18	15	0	0	26	15
40	0	0	25	91	0	0	9	3	0	0	22	15	0	0	28	15
45	0	0	84	93	0	0	14	3	0	0	24	15	0	0	26	15
50	1	0	58	94	0	0	27	3	0	0	29	15	0	0	31	15
HARLEM RIVER								MILE 6								
1	0	0	69	100	0	0	67	71	0	0	5	4	2	*	87	148
3	1	0	123	123	1	0	91	87	0	0	15	13	3		230	227
5	1	0	137	137	0	0	76	98	0	0	18	23	3		252	260
7	1	0	148	148	0	0	105	105	0	0	27	33	3		295	278
10	1	0	130	157	1	0	112	114	0	0	49	42	3		241	290
15	1	0	148	169	1	0	119	126	0	0	51	54	3		273	293
20	1	0	180	175	1	0	130	132	0	0	69	65	3		316	296
25	1	0	180	178	1	0	137	137	0	0	87	74	3		316	299
30	1	0	166	180	0	0	87	139	0	0	80	83	3		241	302
35	1	0	184	182	2	0	141	140	0	0	91	91	4		316	306
40	2	0	184	184	2	0	134	141	0	0	98	99	4		316	310
45	2	0	176	186	2	0	134	142	0	0	105	106	4		284	314
50	2	0	187	187	2	0	155	143	0	0	109	112	5		359	318

* Data too erratic to define curve

Table 9

Owl's Head and Passaic Valley Treatment Plant Effluent

Concentrations in Parts per Billion

No Dikes in Model, Median Freshwater Discharge

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY																
STATION 1								STATION 2								
1	0	0	3	2	0	6	6	0	0	2	2	0	0	1	2	
3	5	7	3	25	13	14	36	37	2	6	10	19	10	10	19	19
5	30	29	71	80	51	44	92	80	21	16	54	44	37	25	51	44
7	34	43	57	101	63	60	114	101	23	31	53	70	43	43	70	70
10	73	59	130	122	61	77	92	122	71	54	120	103	46	63	50	95
15	83	82	152	148	93	98	147	148	90	83	151	142	94	89	126	126
20	111	101	176	172	123	117	185	172	84	105	148	170	111	111	150	148
25	119	119	189	192	134	134	192	192	127	121	189	190	130	128	167	167
30	104	129	172	209	157	148	201	209	134	134	202	206	146	148	181	188
35	96	141	154	226	177	164	236	226	142	144	213	223	154	160	198	206
40	157	154	237	245	184	180	254	245	181	157	233	240	169	173	223	223
45	177	189	254	265	192	197	263	265	173	171	247	258	192	187	249	242
50	188	186	294	266	204	214	278	288	184	184	279	275	200	200	275	260
LOWER BAY (Cont'd)																
STATION 3					STATION 4											
1	0	0	2	1	0	0	1	1	0	0	1	1	0	1	4	4
3	3	4	10	17	9	9	15	17	7	7	16	16	13	16	19	29
5	21	15	53	53	28	26	38	40	18	19	48	41	47	41	75	67
7	28	30	60	75	55	52	85	64	44	35	61	63	77	63	131	102
10	51	51	103	100	76	71	109	90	53	59	82	89	98	86	147	134
15	57	76	114	134	94	97	126	124	91	91	126	123	119	114	164	164
20	104	96	190	183	108	117	140	153	101	115	151	151	119	136	171	186
25	123	115	203	190	185	135	237	178	142	134	184	174	150	150	201	201
30	134	130	216	213	150	150	173	200	154	150	209	196	157	164	191	216
35	148	145	228	234	165	162	209	219	165	165	223	215	177	178	222	230
40	154	158	237	255	169	173	223	238	173	178	229	233	184	189	236	239
45	169	177	273	273	181	182	244	254	188	190	247	251	207	200	232	247
50	166	166	297	297	196	190	278	272	200	200	271	268	215	210	253	253
LOWER BAY (Cont'd)																
STATION 5					STATION 6											
1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1
3	3	5	11	8	10	12	16	16	3	4	12	12	11	11	14	12
5	15	14	29	22	32	30	39	39	14	11	29	31	28	19	29	31
7	18	28	34	45	57	51	89	65	25	26	49	55	37	31	44	50
10	57	56	92	87	64	73	96	96	57	57	89	89	50	53	74	74
15	81	88	130	132	96	96	122	122	84	95	134	130	90	88	108	108
20	108	111	154	162	113	113	147	147	111	121	164	162	104	108	134	134
25	154	131	222	187	142	131	167	166	150	144	198	188	134	127	156	156
30	161	151	222	208	150	148	180	183	161	161	205	210	146	143	174	160
35	177	168	229	229	157	163	195	200	181	172	229	229	157	157	191	202
40	177	184	225	240	173	177	211	217	181	183	229	243	173	170	222	220
45	184	198	250	254	196	191	235	235	188	192	250	258	188	185	244	240
50	200	215	271	278	211	208	250	250	204	200	271	271	204	198	260	260
LOWER BAY (Cont'd)																
STATION 7					STATION 8											
1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
3	4	5	12	8	9	9	18	17	0	0	1	1	0	0	1	1
5	13	13	22	23	29	29	34	35	1	2	4	7	2	2	4	6
7	22	28	43	47	51	46	77	53	7	9	20	22	7	7	17	17
10	58	56	92	90	61	68	74	77	38	36	68	58	20	25	44	44
15	87	91	141	135	93	92	112	112	64	75	110	110	64	64	121	98
20	119	118	171	167	106	112	137	145	96	103	140	145	81	85	131	131
25	148	138	199	193	134	130	174	170	134	124	178	173	107	103	158	158
30	142	157	196	214	146	146	192	192	142	142	196	196	111	119	175	175
35	177	172	229	230	161	180	209	210	157	157	212	212	123	131	186	193
40	184	184	243	243	177	173	222	228	169	169	209	230	142	142	199	208
45	192	195	256	256	184	187	240	242	181	181	240	242	157	155	223	223
50	204	206	278	265	200	198	267	257	192	190	253	253	177	167	243	240

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 9								STATION 10								
1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
3	1	1	4	4	0	0	1	1	0	1	3	4	1	0	0	0
5	4	6	15	20	3	3	5	4	3	4	14	14	1	1	0	1
7	19	19	47	47	4	5	7	10	13	13	38	50	4	4	4	4
10	47	47	92	92	15	15	22	27	45	46	100	100	10	13	16	17
15	80	80	144	137	51	46	64	64	76	76	152	142	37	37	52	51
20	107	103	175	170	78	78	78	82	100	98	172	172	43	57	65	65
25	127	122	192	197	115	100	97	96	115	116	189	196	78	73	85	73
30	138	138	211	220	104	118	84	104	127	131	211	214	76	87	59	79
35	150	150	229	238	115	131	104	113	146	144	231	231	93	100	69	82
40	161	163	229	253	150	141	117	119	161	156	239	247	115	112	82	85
45	173	173	257	267	150	150	113	124	165	165	251	260	123	123	103	86
50	188	183	281	278	161	158	152	127	173	173	272	270	134	132	85	86
LOWER BAY (Cont'd)																
STATION 11								STATION 12								
1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	1	0
3	0	0	3	3	0	0	2	2	0	1	2	12	1	0	1	1
5	4	4	15	15	3	2	3	6	4	6	59	35	1	1	2	5
7	15	17	41	39	5	6	16	21	18	18	62	67	3	7	13	16
10	51	51	106	87	27	27	70	66	54	50	114	120	23	23	60	60
15	84	85	149	146	51	53	96	96	93	93	165	165	47	44	93	91
20	119	110	175	178	71	72	123	120	115	119	182	182	61	61	114	114
25	127	130	193	204	96	88	140	140	130	140	196	196	78	75	134	133
30	146	146	220	224	96	100	158	158	146	153	210	214	87	89	149	147
35	161	161	234	239	104	111	162	170	165	163	230	230	96	102	154	156
40	177	173	229	251	123	121	175	183	177	171	225	243	107	114	162	166
45	184	182	261	261	127	129	193	193	187	177	254	258	127	127	179	176
50	196	192	278	268	138	137	206	203	184	184	272	270	127	114	189	185
LOWER BAY (Cont'd)																
STATION 13								STATION 14								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3	1	1	2	7	0	1	1	5	1	1	10	10	2	2	7	7
5	19	19	75	75	5	5	18	18	15	17	71	69	10	10	26	26
7	38	38	90	103	16	16	44	48	54	52	128	116	24	23	58	52
10	88	69	158	138	45	45	118	113	78	78	163	157	41	40	83	89
15	104	104	190	180	55	71	132	156	96	110	183	194	73	73	138	138
20	119	130	203	212	93	91	190	190	138	134	234	223	98	104	155	164
25	157	152	215	232	130	110	231	212	154	152	230	243	138	127	194	184
30	169	169	237	249	130	125	238	230	169	169	251	258	130	146	202	204
35	181	181	258	260	119	139	214	239	184	180	268	265	150	158	227	222
40	192	192	244	270	157	152	251	247	192	190	267	270	173	168	236	237
45	188	200	261	275	165	163	280	252	184	198	272	272	177	176	254	252
50	204	207	281	281	177	175	221	255	204	204	276	274	181	180	272	267
LOWER BAY (Cont'd)																
STATION 15								STATION 16								
1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1
3	2	2	11	11	4	4	7	7	4	5	58	41	8	8	12	13
5	28	25	84	84	15	15	17	18	24	24	66	91	45	33	48	41
7	48	48	118	118	38	29	35	34	64	63	146	143	45	50	50	53
10	87	75	191	149	50	54	54	54	96	89	208	178	66	68	72	65
15	100	107	204	190	96	92	88	83	111	120	193	211	93	93	76	82
20	138	132	245	226	107	115	94	98	146	142	279	231	104	114	87	96
25	146	148	238	240	138	135	106	111	157	157	214	248	134	134	106	106
30	107	162	176	253	150	150	116	121	165	170	224	260	150	148	116	116
35	173	173	261	261	165	163	134	128	181	179	247	272	161	162	123	125
40	181	181	261	266	177	175	125	134	188	184	266	280	173	177	133	133
45	184	187	255	268	181	185	133	140	188	188	266	286	192	192	142	139
50	196	193	287	270	192	192	146	146	196	190	287	290	204	204	142	145

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 17								STATION 18								
1	0	0	0	0	0	0	6	6	0	0	3	3	2	3	85	85
3	6	4	68	36	23	23	54	55	5	10	32	35	43	38	182	146
5	25	28	58	103	49	49	83	76	35	33	86	86	91	86	184	180
7	76	76	148	144	70	68	109	109	55	55	99	112	104	104	248	210
10	113	98	200	172	86	92	127	137	77	77	131	142	127	127	279	243
15	100	124	190	206	123	123	175	172	111	106	203	180	161	153	277	280
20	138	143	249	228	134	144	192	199	123	126	214	210	169	173	319	295
25	154	134	255	240	154	163	208	217	138	146	228	232	181	187	297	303
30	142	164	217	251	184	178	233	230	161	161	233	247	196	196	318	310
35	173	173	247	259	200	192	242	238	192	175	257	257	207	200	285	314
40	184	176	268	262	204	204	244	244	169	187	266	266	204	201	318	318
45	177	178	240	264	223	213	243	248	196	196	264	270	196	202	285	320
50	188	180	268	265	223	221	254	252	211	208	277	273	200	202	318	322
LOWER BAY (Cont'd)																
STATION 19								STATION 20								
1	0	0	3	3	3	3	114	114	0	0	2	2	2	2	85	85
3	3	3	20	20	44	44	156	152	18	18	66	66	43	41	201	190
5	25	23	71	79	96	96	216	180	53	53	87	111	94	86	248	240
7	57	57	131	131	104	110	312	210	78	75	163	140	107	105	312	267
10	96	85	204	160	130	130	288	240	100	100	208	180	130	124	374	298
15	123	119	246	194	161	153	309	282	115	133	214	225	165	149	320	320
20	138	143	203	219	169	171	331	311	138	157	224	258	165	169	331	340
25	165	160	256	236	177	183	330	330	188	176	383	280	177	180	308	355
30	165	174	181	247	215	190	338	338	184	190	244	292	196	190	339	362
35	204	184	254	254	200	195	296	340	234	202	305	300	200	196	296	366
40	177	192	222	258	196	198	339	342	215	210	381	300	196	198	339	370
45	192	198	221	260	192	200	285	344	223	220	295	300	192	200	371	371
50	207	200	254	260	200	200	318	345	227	227	306	300	192	202	350	372
LOWER BAY (Cont'd)																
STATION 21								STATION 22								
1	0	0	1	1	3	2	177	177	1	1	4	4	4	4	178	178
3	12	12	63	60	45	45	229	229	13	13	51	54	43	43	251	247
5	45	42	101	107	97	80	270	267	38	38	132	110	91	76	290	283
7	77	70	145	139	104	104	312	296	71	59	148	146	100	100	334	310
10	100	95	208	178	134	126	460	312	76	82	181	179	130	119	449	340
15	123	128	223	227	165	150	309	328	106	106	208	220	154	143	320	370
20	142	152	252	262	169	169	331	336	119	124	239	239	161	165	341	385
25	188	173	351	286	173	181	330	342	157	139	309	250	169	178	395	395
30	192	188	318	302	188	192	361	348	134	150	214	260	184	184	469	400
35	219	200	306	312	200	188	318	354	165	165	235	268	196	188	339	405
40	184	210	297	320	188	200	340	358	177	177	308	275	188	190	405	408
45	207	217	275	322	192	202	382	360	184	187	254	280	188	190	436	410
50	227	222	284	323	204	203	296	362	200	197	285	285	188	190	361	410
LOWER BAY (Cont'd)																
STATION 23								STATION 24								
1	0	0	6	6	4	4	189	189	3	3	70	70	2	3	95	92
3	17	16	59	59	38	38	240	270	27	27	80	110	41	41	125	117
5	33	38	92	104	88	76	377	325	68	68	142	137	93	83	180	128
7	64	64	130	134	96	96	376	365	90	88	208	161	88	101	145	132
10	91	86	179	170	127	122	483	400	119	113	253	190	130	124	152	132
15	123	116	220	215	157	152	362	415	134	144	203	230	161	150	106	132
20	127	138	238	248	169	170	373	425	169	169	234	255	173	170	126	132
25	157	157	330	272	173	181	436	436	181	185	276	272	173	182	137	132
30	177	168	350	290	192	191	479	440	207	200	307	285	184	189	169	132
35	177	177	265	300	207	197	360	442	211	211	252	290	200	195	115	132
40	181	186	329	310	200	200	446	444	215	217	317	295	188	198	148	132
45	184	192	254	314	204	204	446	446	223	223	295	298	192	200	136	132
50	200	197	284	318	196	206	382	448	227	227	263	300	192	200	104	132

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 25								STATION 26								
1	3	3	48	48	0	3	8	5	2	2	14	14	1	1	8	8
3	28	28	69	73	24	28	41	41	30	30	79	79	41	41	118	115
5	57	57	92	98	57	57	81	82	81	84	99	105	83	73	152	131
7	97	85	233	122	104	79	87	79	87	90	195	130	104	90	198	147
10	134	113	288	153	92	102	97	97	127	120	284	160	123	115	211	167
15	154	148	191	193	119	131	107	124	146	156	128	198	134	144	149	191
20	181	174	181	223	142	151	160	142	154	160	159	222	181	164	237	208
25	173	195	201	246	154	185	144	155	181	198	201	240	177	179	235	220
30	207	207	307	262	177	177	151	183	207	207	296	252	181	189	188	228
35	223	220	220	275	192	182	171	189	223	216	210	260	200	193	203	233
40	219	227	274	286	188	188	158	173	207	218	254	265	192	197	239	236
45	227	232	295	295	192	192	164	175	219	219	264	270	192	199	203	238
50	238	238	283	300	204	196	150	178	227	220	284	270	200	200	157	240
LOWER BAY (Cont'd)																
STATION 27								STATION 28								
1	1	1	8	8	1	1	19	19	3	1	44	44	1	1	15	15
3	21	21	53	53	35	35	88	68	24	24	59	85	35	35	60	60
5	41	52	83	109	78	66	64	96	58	58	132	112	74	74	66	82
7	107	80	208	150	93	93	147	119	70	64	145	138	100	92	151	100
10	130	116	224	180	123	111	181	135	110	113	243	172	107	118	97	123
15	154	154	170	212	154	139	144	150	127	148	119	219	154	148	195	148
20	189	182	202	237	157	157	166	155	200	175	254	250	157	187	169	187
25	215	200	253	253	181	175	137	158	211	192	295	273	185	182	177	171
30	227	213	360	269	184	184	143	181	192	205	329	290	184	192	181	171
35	211	222	199	278	204	195	149	184	211	213	253	288	200	198	164	172
40	219	229	284	280	196	200	189	187	242	220	337	300	200	200	203	173
45	231	231	262	281	198	202	171	170	223	223	253	302	207	202	164	174
50	211	233	263	282	204	204	142	173	219	223	284	302	204	203	175	175
LOWER BAY (Cont'd)																
STATION 29								STATION 30								
1	3	3	33	33	0	3	9	9	3	3	66	53	0	3	0	0
3	31	31	79	79	40	40	88	86	25	22	62	81	24	22	46	48
5	47	58	83	110	86	86	138	110	38	45	68	102	60	45	91	84
7	76	78	134	136	104	104	233	130	74	70	134	120	90	70	126	105
10	96	101	165	168	127	122	118	158	96	96	147	147	96	96	122	122
15	148	130	188	209	146	146	160	185	100	125	119	177	189	125	277	127
20	157	152	331	240	165	167	202	208	138	148	235	204	142	148	128	131
25	169	169	288	282	181	181	233	222	165	185	256	227	154	185	108	134
30	188	183	340	280	200	189	200	230	181	178	297	244	181	178	118	137
35	204	195	243	292	219	196	199	232	200	190	284	260	177	190	115	139
40	207	203	350	301	207	203	232	234	200	197	296	274	184	197	158	140
45	211	210	274	308	211	210	199	236	204	204	275	288	219	204	187	140
50	211	215	264	311	215	215	199	238	211	208	274	298	223	208	156	140
LOWER BAY (Cont'd)																
STATION 31								STATION 32								
1	4	4	48	48	0	0	0	0	4	3	67	87	0	0	0	0
3	37	39	143	125	6	5	18	18	28	28	76	104	1	1	12	12
5	66	66	149	168	24	24	36	39	74	70	143	129	11	11	43	41
7	83	83	199	196	55	55	77	65	96	89	269	150	53	53	85	81
10	113	103	250	212	71	77	84	84	123	110	279	179	73	78	109	111
15	104	120	109	229	142	106	92	92	123	136	183	213	150	110	198	146
20	146	150	214	240	130	127	85	99	142	156	214	240	127	136	181	172
25	169	186	266	245	150	148	95	104	165	172	266	260	169	154	177	191
30	184	180	244	250	161	181	95	108	181	181	255	275	169	166	191	207
35	192	192	254	254	189	171	127	112	188	190	276	288	181	181	208	217
40	200	200	296	258	181	181	105	118	192	196	296	296	192	192	196	223
45	207	205	243	260	192	190	136	119	200	200	284	302	200	198	225	228
50	215	210	283	260	204	197	157	120	204	204	286	308	204	204	242	232

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 33								STATION 34								
1	1	1	3	3	0	0	0	0	0	0	1	1	3	3	0	1
3	17	17	62	62	0	0	1	1	4	4	3	3	44	44	21	21
5	73	62	166	160	8	14	43	43	5	12	5	8	97	78	63	63
7	77	92	209	206	48	42	83	84	24	24	25	17	127	98	102	88
10	127	118	285	230	48	67	72	88	33	40	33	37	127	127	102	117
15	-	134	253	253	138	94	186	118	71	61	70	70	173	155	160	155
20	150	147	285	265	111	116	153	140	77	78	81	90	177	181	189	180
25	161	161	285	277	130	132	149	158	91	94	104	109	184	196	217	200
30	169	174	253	284	150	145	173	173	107	107	126	128	200	210	220	215
35	181	181	274	290	154	158	162	162	154	123	166	146	181	220	181	225
40	177	189	274	292	165	189	173	189	142	137	178	165	188	228	228	232
45	184	193	295	294	181	178	200	193	154	180	187	185	258	232	245	240
50	204	197	307	295	188	165	200	197	154	163	195	205	238	236	257	246
LOWER BAY (Cont'd)																
STATION 35								STATION 36								
1	0	0	0	0	2	2	0	2	0	0	0	0	1	1	0	0
3	3	3	2	2	38	38	34	14	1	1	1	1	30	30	9	9
5	15	10	10	10	47	58	21	33	8	6	5	5	51	44	29	29
7	25	19	25	18	74	74	80	56	14	14	14	11	64	56	54	47
10	24	32	23	33	60	92	54	87	20	28	22	27	45	70	42	66
15	51	55	64	63	103	117	90	117	51	51	63	63	64	90	86	91
20	70	78	77	90	173	137	186	137	74	76	84	88	127	109	136	114
25	103	96	119	113	173	153	206	153	94	96	108	110	130	125	142	135
30	115	111	139	132	146	168	157	168	123	115	136	130	138	138	152	152
35	123	123	153	150	192	180	203	180	138	131	156	150	150	152	166	170
40	130	135	170	168	154	190	180	190	134	146	167	169	150	166	177	187
45	142	145	181	184	168	200	204	200	161	181	191	189	207	181	188	203
50	154	154	198	198	219	208	245	208	169	173	205	209	196	196	221	221
LOWER BAY (Cont'd)																
STATION 37								STATION 38								
1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
3	5	5	3	3	25	25	12	12	34	34	22	22	20	19	7	4
5	54	54	35	35	60	38	35	27	66	55	42	44	25	29	11	11
7	30	66	24	52	60	48	50	40	74	72	78	63	14	38	11	21
10	96	61	81	72	44	62	48	57	104	94	76	85	40	49	39	40
15	67	103	65	97	81	81	83	83	92	122	81	113	61	64	84	72
20	110	120	123	120	97	97	104	104	134	140	148	137	83	78	84	91
25	154	138	167	139	107	111	121	121	154	154	166	154	91	91	97	109
30	161	150	185	156	138	124	144	140	169	169	166	169	111	105	121	125
35	142	162	157	173	146	135	162	157	177	162	166	162	123	117	139	141
40	161	174	185	189	146	146	177	177	181	192	186	192	134	130	160	156
45	188	185	202	202	154	157	166	193	207	202	207	202	146	143	174	171
50	200	195	226	219	161	169	207	210	204	210	207	210	157	155	183	186
LOWER BAY (Cont'd)																
STATION 39								STATION 40								
1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
3	38	38	25	25	22	2	7	1	13	12	8	12	2	1	1	1
5	40	51	20	43	7	9	4	4	48	35	35	35	5	3	3	3
7	46	63	47	55	10	18	7	11	48	48	42	50	8	9	7	9
10	63	77	80	71	20	39	21	31	68	64	91	68	21	25	21	25
15	86	99	66	92	74	75	77	70	65	84	53	91	67	53	64	84
20	127	117	125	112	74	92	70	92	107	103	112	110	73	75	77	87
25	130	133	135	128	123	109	114	114	115	118	125	125	96	93	108	108
30	157	149	162	144	127	122	132	130	138	133	142	141	111	110	125	128
35	150	162	148	158	130	133	142	144	142	146	149	153	123	128	150	146
40	157	175	162	173	150	142	162	158	157	157	169	165	142	142	167	166
45	188	188	182	186	146	149	170	170	173	170	186	177	150	154	163	181
50	207	200	207	200	154	154	177	180	164	182	190	188	157	162	195	195

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.

STATION 41								LOWER BAY (Cont'd)								STATION 42							
1	0	0	0	0	1	0	0	0	13	13	0	0	1	0	0	0							
3	45	45	28	28	3	3	2	3	38	38	21	20	7	7	2	2							
5	93	68	61	56	13	11	10	11	68	59	43	43	16	18	11	10							
7	55	84	56	72	23	23	20	20	87	74	81	61	23	26	20	22							
10	115	106	89	93	32	44	33	40	98	93	80	83	38	43	37	38							
15	123	133	107	122	68	66	79	76	50	118	46	111	70	70	81	76							
20	169	155	183	147	76	84	84	98	142	137	149	135	86	86	102	102							
25	150	173	169	169	97	100	119	119	123	154	150	154	100	100	112	123							
30	184	186	194	189	115	115	132	138	154	168	159	172	111	114	136	140							
35	168	198	188	209	127	129	154	154	184	180	186	186	127	127	154	156							
40	192	210	232	227	142	142	168	170	200	190	249	200	138	138	170	170							
45	196	218	193	245	157	155	187	187	223	199	231	212	150	148	187	184							
50	304	225	266	263	169	167	203	203	207	207	224	224	157	157	198	196							

STATION 43								LOWER BAY (Cont'd)								STATION 44							
1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0							
3	31	31	16	15	4	4	2	2	30	30	18	18	3	3	2	2							
5	50	45	24	31	13	10	9	7	74	48	55	47	9	7	6	6							
7	50	56	50	48	20	20	17	16	45	62	40	63	23	15	19	17							
10	55	70	55	64	37	38	38	38	93	78	88	81	34	34	37	40							
15	91	91	82	89	68	63	82	74	77	102	77	107	71	61	84	74							
20	130	108	148	111	84	84	98	100	130	122	149	130	78	81	95	98							
25	84	122	98	130	97	100	112	121	104	140	133	150	100	97	119	119							
30	138	138	149	148	119	114	132	140	154	154	177	172	107	113	137	137							
35	130	150	148	161	127	127	150	157	130	172	156	192	127	127	157	155							
40	165	183	187	177	142	140	170	172	177	189	215	212	138	140	178	173							
45	177	175	194	192	150	150	187	187	234	203	240	234	150	152	191	188							
50	192	187	207	207	161	160	201	201	223	220	255	255	161	164	201	201							

STATION 45								LOWER BAY (Cont'd)								STATION 46							
1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0							
3	9	9	4	4	16	11	5	4	10	10	5	3	33	23	11	3							
5	35	21	19	19	27	19	13	12	18	22	10	12	38	38	16	12							
7	45	33	44	33	21	29	18	15	38	36	35	28	44	49	35	28							
10	45	46	50	47	27	45	26	20	93	58	87	53	47	63	43	53							
15	53	63	61	67	73	73	14	26	65	83	53	83	100	83	80	83							
20	91	81	94	86	78	89	19	32	104	104	104	104	106	99	101	104							
25	77	99	87	105	119	105	33	37	138	123	142	123	119	115	118	123							
30	127	120	132	124	123	118	39	41	142	139	145	139	134	126	138	139							
35	123	140	139	144	130	130	43	45	146	153	149	153	134	139	152	153							
40	130	160	149	164	142	142	50	49	150	169	159	169	154	150	177	169							
45	184	182	186	186	154	152	54	54	184	182	182	182	146	160	178	182							
50	227	202	223	210	165	162	59	59	200	195	203	195	177	170	190	195							

STATION 47								LOWER BAY (Cont'd)								STATION 48							
1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0							
3	11	6	4	4	35	35	16	16	0	0	1	1	37	37	27	27							
5	15	17	7	12	53	53	20	30	13	13	7	7	70	60	49	49							
7	26	33	23	25	58	86	47	47	37	37	35	35	67	73	59	66							
10	80	57	68	50	110	82	89	70	67	54	65	58	168	91	77	84							
15	64	85	58	77	107	107	94	98	64	75	75	84	138	111	120	110							
20	81	106	77	100	115	124	107	120	73	93	77	107	123	126	136	130							
25	134	126	142	120	142	139	152	138	108	108	122	125	127	138	146	148							
30	134	141	138	138	150	150	151	152	115	123	136	143	150	150	151	163							
35	138	155	149	153	138	160	160	166	146	138	160	158	154	162	188	176							
40	142	169	160	189	157	169	176	178	123	150	157	173	161	174	177	188							
45	188	180	194	185	223	177	198	188	173	162	197	188	204	188	199	200							
50	196	190	207	200	181	181	194	198	177	174	214	200	204	200	225	210							

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (Cont'd)																
STATION 49								STATION 50								
1	0	0	1	0	4	1	1	1	0	0	0	0	18	18	0	0
3	0	1	1	1	27	27	19	19	0	1	1	1	51	42	42	37
5	20	13	13	13	78	62	51	51	8	7	6	7	45	66	24	64
7	43	41	42	41	86	82	70	70	18	14	19	14	61	82	59	82
10	34	59	33	59	88	98	79	92	23	27	26	30	93	104	80	104
15	84	84	77	84	154	120	119	121	57	57	68	67	154	132	110	133
20	91	100	97	103	127	139	128	145	61	79	71	96	192	162	210	156
25	127	112	143	119	138	153	145	161	110	97	125	119	192	169	228	173
30	123	123	143	134	161	165	162	175	111	111	139	139	169	180	183	189
35	115	130	139	148	204	177	207	187	111	122	146	152	215	188	216	200
40	154	137	173	159	173	188	200	194	119	132	157	164	154	193	183	209
45	138	142	170	170	184	198	200	200	146	140	178	175	200	198	213	213
50	146	146	181	181	211	205	230	207	146	146	192	182	184	201	218	218
LOWER BAY (Cont'd)																
STATION 51								STATION 52								
1	0	0	1	0	150	65	0	0	0	1	111	52	0	0	0	
3	0	1	2	2	100	96	39	39	0	1	2	3	77	100	33	28
5	19	7	7	7	123	120	58	76	2	4	2	6	92	129	59	60
7	13	16	12	14	142	138	106	97	8	9	8	11	215	152	113	92
10	25	33	28	32	-	160	-	124	18	18	23	23	119	182	121	127
15	48	54	64	64	154	190	126	157	43	38	55	47	154	220	137	170
20	60	71	82	87	188	210	222	182	61	61	71	71	292	250	212	200
25	90	85	108	108	207	224	231	200	76	81	84	96	337	270	237	220
30	100	97	119	125	246	235	229	216	100	100	122	118	314	283	216	236
35	107	107	133	140	254	240	225	228	115	115	139	139	234	293	220	248
40	119	119	146	154	150	243	180	237	123	126	153	158	291	300	298	254
45	134	130	167	167	265	246	236	244	134	136	170	170	337	303	248	259
50	142	140	181	181	238	250	251	250	146	146	184	180	257	306	283	262
LOWER BAY (Cont'd)																
STATION 53								STATION 54								
1	0	0	0	0	13	13	0	0	0	0	0	4	2	0	0	
3	0	0	1	1	44	48	28	28	1	0	1	1	47	47	44	44
5	2	2	2	2	87	73	63	63	2	3	2	5	91	76	68	79
7	7	8	8	11	134	92	106	84	8	9	7	11	107	96	119	105
10	18	18	17	25	107	117	101	115	18	18	18	22	-	121	-	130
15	43	37	57	47	127	147	121	149	41	38	51	47	165	152	169	166
20	63	57	71	71	138	173	149	180	60	57	74	74	181	176	218	190
25	73	76	84	94	188	193	236	210	80	76	84	94	200	191	246	205
30	98	95	122	118	215	208	234	232	96	96	108	114	207	202	231	215
35	111	111	143	140	269	224	246	246	107	113	129	132	177	209	179	221
40	127	125	161	160	204	236	263	256	119	129	146	150	161	212	187	227
45	138	138	174	177	254	247	260	262	142	144	163	166	231	214	215	228
50	146	146	184	186	254	254	273	270	157	155	183	183	204	216	225	229
LOWER BAY (Cont'd)																
STATION 55								STATION 56								
1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
3	0	0	1	1	40	35	38	11	1	1	2	2	30	30	23	11
5	2	2	2	3	68	68	47	23	3	3	4	5	55	47	18	32
7	8	6	8	8	100	89	27	32	8	8	6	10	61	61	45	49
10	16	16	17	19	127	112	30	41	19	19	20	25	76	76	54	72
15	44	44	55	38	150	144	40	52	45	41	61	55	123	98	107	104
20	61	63	60	58	165	165	60	59	60	60	79	76	119	117	118	125
25	73	80	73	80	184	178	72	62	76	78	84	94	130	135	135	145
30	96	96	101	101	184	184	66	64	101	96	112	112	154	152	151	160
35	110	110	121	123	154	189	63	66	111	111	128	128	169	167	173	173
40	119	123	139	144	150	192	53	67	123	126	143	144	173	181	190	186
45	138	138	163	161	246	192	67	68	138	140	160	160	196	194	196	198
50	154	152	176	176	192	192	62	68	150	150	173	176	207	208	210	210

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 57								STATION 58								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	1	2	1	3	3	2	2	3	3	2	2	5	5	3	2
5	3	3	3	3	18	12	8	7	50	6	26	6	20	20	14	11
7	6	7	6	6	22	22	18	14	11	11	9	12	29	29	19	23
10	20	19	21	21	31	34	28	32	27	24	28	29	44	44	44	44
15	48	48	64	60	-	53	-	63	51	51	57	60	67	65	83	73
20	83	68	79	85	73	73	81	85	70	74	87	84	83	83	95	95
25	81	84	95	105	92	92	101	105	86	93	102	105	104	98	106	115
30	100	100	119	123	119	106	136	123	111	111	122	125	115	112	128	133
35	111	114	139	139	107	119	122	139	165	128	169	146	130	126	149	149
40	130	127	152	152	130	132	152	152	165	146	183	166	146	141	163	166
45	142	142	170	187	146	144	170	187	161	162	187	187	154	156	180	180
50	154	154	180	180	154	154	183	180	161	180	191	209	165	165	195	195

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION L7								STATION L10								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
8	0	0	1	1	0	0	1	0	4	4	15	15	0	0	0	0
11	1	1	2	2	0	0	0	1	27	23	60	40	1	1	5	5
16	3	3	7	7	1	1	2	2	47	35	78	60	7	7	17	13
21	9	8	21	17	2	2	5	4	33	45	49	75	12	10	23	19
26	16	15	31	29	3	4	7	9	35	53	64	86	12	13	20	25
31	22	23	40	45	5	7	14	15	51	59	84	95	-	16	-	32
36	29	34	57	63	12	13	26	26	53	64	98	104	17	20	32	38
41	37	46	74	85	21	22	43	41	60	70	105	110	25	24	50	44
46	66	61	114	109	38	35	60	60	77	74	126	115	27	28	50	52
49	66	70	117	126	45	45	71	71	94	76	146	119	35	31	56	56

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION L12								STATION L14								
2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	2	2	8	8	0	0	1	0
8	3	3	11	14	3	2	11	7	26	12	50	36	2	2	3	7
11	47	25	78	49	6	13	35	35	54	31	91	62	15	14	33	33
16	57	57	91	91	47	45	87	85	31	56	85	93	61	51	81	78
21	53	71	64	107	73	64	123	104	44	76	64	118	51	66	70	107
26	66	62	144	119	70	78	109	116	127	94	184	141	104	94	139	131
31	57	90	91	131	55	90	85	131	123	110	188	162	104	110	153	150
36	90	95	139	140	66	102	137	141	104	123	161	162	115	123	163	167
41	66	99	105	149	97	110	147	152	104	135	161	202	142	135	191	182
46	104	100	157	156	138	118	188	164	150	145	218	222	150	145	197	197
49	150	100	211	161	146	122	202	171	165	150	233	233	157	150	204	202

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION L17								STATION L19								
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	1	2	2	1	1	2	2	0	0	0	0	0	0	0	0
6	4	4	6	7	7	4	12	7	0	0	0	0	0	0	1	0
8	9	10	15	19	18	10	28	19	1	0	2	3	0	0	2	2
11	32	27	50	50	34	27	56	50	12	6	15	15	7	6	13	9
16	71	70	95	91	57	70	84	91	33	36	49	63	15	36	24	46
21	96	96	119	123	91	96	125	123	87	60	122	110	63	80	102	100
26	115	117	150	148	114	117	152	148	107	104	145	145	107	104	129	129
31	127	136	189	172	127	136	174	172	119	121	163	170	130	121	149	152
36	154	149	201	190	150	149	208	190	138	138	183	190	138	138	167	170
41	169	162	212	209	157	162	208	209	154	154	200	208	154	154	180	185
46	173	172	222	227	189	172	229	227	165	167	218	221	165	167	195	196
49	164	177	236	236	177	177	242	236	173	173	232	230	173	173	204	204

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (Cont'd)																
STATION L20								STATION L21								
2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
4	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1	0
8	10	5	12	10	5	5	11	10	3	2	3	3	2	2	2	3
8	12	15	15	25	11	15	18	25	9	9	11	12	8	9	9	12
11	33	33	50	50	34	33	53	50	26	28	33	33	28	26	36	33
18	60	80	77	77	45	60	74	77	48	48	70	63	48	48	74	83
21	84	82	97	103	73	82	88	103	60	85	70	85	64	65	74	85
28	107	100	138	125	108	100	129	125	84	84	97	104	81	84	95	110
31	123	119	152	145	123	119	150	145	101	101	121	122	111	101	143	132
36	138	135	169	185	138	135	167	185	123	118	145	140	127	118	161	152
41	154	150	182	183	157	150	180	183	130	135	162	158	150	135	176	173
48	181	165	190	192	157	165	187	192	154	155	186	175	150	155	180	190
49	169	175	204	214	173	175	200	214	157	170	186	185	157	170	198	208
LOWER BAY (Cont'd)																
STATION L23								STATION JA								
2	0	0	0	0	0	0	2	0	115	115	23	23	242	115	24	23
4	2	1	1	3	12	1	7	3	165	142	52	52	107	142	63	52
8	7	2	8	8	3	2	3	8	154	165	87	87	188	185	83	87
8	15	6	17	17	10	6	12	17	258	185	111	111	475	185	100	111
11	34	27	45	42	25	27	31	42	211	210	145	142	199	210	160	142
18	55	55	66	72	54	55	78	72	234	242	162	180	475	242	164	180
21	77	77	83	96	77	77	95	96	245	265	183	208	257	265	221	208
28	101	101	121	118	98	118	104	118	268	280	246	230	234	280	243	230
31	127	118	152	135	119	129	143	155	280	290	239	239	280	290	282	239
38	123	129	145	155	134	142	163	155	280	295	235	248	280	295	218	248
41	142	142	189	170	154	157	180	170	222	298	252	256	280	298	251	258
48	154	157	188	190	181	157	191	190	257	300	264	264	291	300	228	264
49	189	189	200	206	161	169	187	206	314	300	259	265	452	300	295	285
JAMAICA BAY																
STATION J1								RARITAN CHANNEL								
MILE 25																
2	11	11	5	5	0	0	0	0	0	0	0	0	0	0	1	0
4	38	26	21	14	1	1	1	1	0	0	0	0	0	0	1	0
6	31	39	21	28	5	4	3	3	0	0	0	0	0	0	1	0
8	37	49	37	44	11	8	6	8	0	0	2	1	0	0	1	1
11	58	62	67	67	17	17	14	15	1	1	3	3	0	1	2	3
16	93	81	87	87	38	38	37	37	3	4	7	10	1	4	4	10
21	96	97	97	107	53	53	57	53	9	9	22	23	10	9	24	23
28	115	115	124	124	65	68	60	68	20	19	47	42	19	19	40	42
31	154	129	166	141	77	80	76	80	37	32	82	56	33	32	68	56
36	150	143	155	157	88	92	87	92	43	49	75	94	47	49	88	94
41	157	157	177	172	104	104	107	104	58	67	92	112	68	67	114	112
46	169	172	187	188	111	115	117	115	81	82	130	114	81	82	134	114
49	189	181	191	199	119	121	127	121	90	69	144	115	90	88	144	115
RARITAN CHANNEL (Cont'd)																
MILE 30								MILE 35								
2	1	0	1	0	0	0	1	0	8	6	17	16	0	0	2	2
4	0	0	1	1	0	0	1	1	30	29	43	47	2	3	10	10
8	4	1	13	20	0	0	2	2	63	51	87	86	10	10	26	28
8	24	24	70	67	1	1	5	6	74	78	113	112	29	20	69	44
11	57	55	117	99	9	11	24	24	103	103	140	140	40	43	68	68
18	70	78	134	135	43	44	76	75	127	131	161	180	56	58	89	100
21	101	98	172	161	66	65	114	112	138	155	199	207	81	78	123	123
28	127	115	218	182	88	84	152	141	187	173	223	225	83	92	127	135
31	111	130	130	198	96	105	182	186	181	188	243	238	123	108	175	182
38	134	145	151	210	115	120	182	192	196	190	246	246	138	125	192	178
41	169	158	203	217	130	135	199	210	196	200	244	250	148	142	188	190
48	169	182	235	225	146	146	217	230	211	210	243	255	138	160	181	210
49	184	180	258	230	161	155	237	242	281	220	272	255	181	180	205	215

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
RARITAN CHANNEL (Cont'd)																
MILE 40																
2	0	0	0	0	0	0	1	0								
4	2	2	2	3	3	6	12	12								
6	5	5	10	37	23	24	38	38								
8	13	13	21	22	53	46	83	84								
11	27	31	47	47	70	62	91	94								
16	64	64	92	89	98	96	128	123								
21	104	86	154	130	111	115	150	148								
26	104	107	154	154	134	134	167	170								
31	123	123	171	173	146	148	185	191								
36	134	139	192	192	169	160	222	210								
41	154	154	209	211	181	173	229	231								
46	165	168	230	230	184	183	240	250								
49	173	177	229	241	188	190	233	260								
KILL VAN KULL																
MILE 3																
1	31	31	70	40	1	0	4	4	23	23	63	63	11	11	89	89
3	53	53	74	90	3	5	35	35	55	55	88	106	34	34	72	125
5	86	72	120	125	5	17	54	64	108	87	151	129	87	58	134	150
7	90	90	140	152	31	31	90	90	107	110	169	145	98	85	262	168
10	114	120	189	168	47	47	118	125	127	136	225	165	115	115	189	189
15	150	143	173	170	76	75	170	170	169	169	187	185	104	130	225	197
20	150	150	141	180	97	95	208	190	161	180	180	190	146	148	217	200
25	148	158	196	190	108	108	194	200	173	185	202	192	130	160	233	201
30	161	163	212	200	119	119	203	208	192	190	180	194	177	170	250	204
35	177	168	165	210	127	127	211	215	207	195	148	195	192	172	175	205
40	161	172	134	218	142	135	234	230	207	200	169	200	173	173	169	207
45	188	178	186	230	142	145	220	232	223	200	200	200	200	175	169	208
50	173	183	140	240	146	158	234	240	196	200	169	200	165	176	150	210
UPPER BAY (Cont'd)																
STATION 11								STATION 13								
1	31	31	56	56	1	1	35	56	8	10	23	20	55	55	7	7
3	60	68	89	80	18	18	75	80	-	62	-	62	107	98	23	34
5	157	93	94	102	37	40	100	102	111	105	103	97	173	130	47	51
7	100	112	144	126	80	63	168	126	134	132	149	121	242	154	64	64
10	123	140	189	155	74	85	166	155	154	155	173	155	142	187	64	82
15	169	161	137	190	130	108	224	190	173	170	197	198	211	208	96	105
20	181	174	176	215	119	119	247	215	169	190	219	215	181	212	183	122
25	161	178	205	230	123	129	250	230	188	202	256	228	231	216	192	131
30	173	180	215	240	138	138	260	240	188	215	181	235	242	220	106	138
35	188	183	176	250	142	145	227	250	207	220	201	240	219	225	121	140
40	165	188	162	250	-	148	-	250	227	227	296	243	184	227	-	-
45	200	190	167	250	146	152	224	250	242	229	253	244	258	230	122	142
50	173	190	125	250	157	158	234	250	242	230	220	245	181	230	123	142
UPPER BAY (Cont'd)																
STATION 13A					STATION 13B											
1	8	8	18	18	35	35	10	10	35	35	30	30	184	184	5	5
3	-	28	-	50	78	70	27	27	-	96	-	96	238	218	23	23
5	92	54	89	82	96	86	69	52	150	128	130	130	265	240	62	62
7	80	76	59	106	104	104	58	80	142	153	178	160	273	258	71	76
10	115	102	125	126	123	123	86	108	161	189	201	198	254	275	82	95
15	138	136	145	150	154	148	84	142	219	230	220	250	261	282	131	125
20	154	160	159	170	161	161	223	171	258	278	243	280	298	290	148	148
25	169	172	198	180	157	172	268	190	242	281	306	300	184	300	176	169
30	181	190	179	190	188	184	119	208	269	290	358	302	300	308	170	180
35	188	202	186	197	192	186	190	219	304	298	303	310	337	310	150	188
40	188	209	194	199	184	188	245	229	326	302	324	312	326	315	233	190
45	211	212	198	200	192	189	296	234	326	303	345	315	314	315	158	192
50	231	216	201	200	165	188	-	-	257	302	284	315	314	315	201	191

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		

UPPER BAY (Cont'd)

STATION 14A								
2	64	64	22	22	7	7	16	16
4	115	95	55	55	24	17	31	27
6	127	118	78	70	20	24	20	34
8	100	138	86	82	22	29	25	42
11	181	160	96	96	57	36	91	47
16	215	192	108	112	40	45	48	59
21	231	213	129	130	62	52	81	68
26	304	230	140	143	76	58	88	75
31	196	238	145	149	82	63	98	82
36	254	242	153	154	53	68	56	86
41	192	248	166	160	56	73	66	88
46	192	250	156	162	44	75	47	94
49	227	250	169	164	95	79	108	96

UPPER BAY (Cont'd)

STATION 15A								
1	10	8	134	90	2	1	0	1
3	-	28	-	110	4	7	11	7
5	53	50	146	124	13	17	19	17
7	71	67	195	138	28	28	32	28
10	83	83	155	151	37	38	39	38
15	88	100	120	171	51	51	55	51
20	101	112	158	184	58	61	61	61
25	107	124	180	190	63	66	68	66
30	134	130	239	199	66	70	61	70
35	150	138	154	200	70	73	73	73
40	142	141	197	202	77	74	80	74
45	146	146	155	204	77	74	76	74
50	127	150	118	201	71	73	60	73

UPPER BAY (Cont'd)

STATION 16								STATION 17								
2	38	40	57	57	4	3	19	10	142	122	33	30	12	12	11	11
4	104	95	96	96	14	14	31	29	134	152	56	56	23	18	11	11
6	100	120	111	115	30	30	65	48	92	179	90	81	23	23	16	16
8	111	140	156	130	40	40	90	64	326	202	104	100	24	26	21	20
11	184	166	139	150	50	52	81	80	383	230	126	124	30	31	26	25
16	169	197	196	175	64	66	91	100	245	269	162	156	35	36	30	31
21	227	223	151	190	80	77	104	114	280	290	181	180	44	40	37	35
26	200	234	193	197	96	84	136	122	234	305	151	200	169	42	84	37
31	261	240	222	200	78	90	115	129	257	312	207	216	50	45	41	39
36	258	248	169	209	86	93	115	130	303	317	219	228	47	45	37	39
41	261	250	211	210	98	98	121	132	257	320	236	236	40	45	37	40
46	219	250	255	212	103	96	121	133	257	319	250	250	34	45	25	40
49	261	250	191	214	97	97	132	133	291	315	248	246	37	45	33	40

UPPER BAY (Cont'd)

STATION 18								
1	8	10	67	67	1	3	45	36
3	58	58	84	112	29	30	72	75
5	93	88	134	146	67	63	114	103
7	100	112	173	170	77	77	138	118
10	123	138	186	183	81	96	127	130
15	177	168	151	193	111	120	121	131
20	181	186	183	200	142	138	152	133
25	184	200	241	208	150	148	151	135
30	204	210	214	210	138	156	192	139
35	223	213	199	210	165	160	127	140
40	215	214	231	212	146	160	163	142
45	234	224	227	214	154	160	112	145
50	223	228	196	215	161	160	127	148

Table 9 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
2	717	840	13	13	73	73	7	7	34	34	89	89	8	8	57	57
4	510	890	42	42	107	94	28	28	83	78	178	145	34	30	82	78
8	380	700	95	70	88	109	48	46	115	104	231	182	54	50	98	94
8	809	710	98	90	138	124	75	58	127	125	210	210	81	85	123	107
11	809	720	105	112	119	142	84	74	150	152	248	250	78	77	178	123
18	590	735	154	138	157	160	84	93	188	186	247	290	100	98	146	146
21	705	790	142	182	189	178	101	104	227	212	278	314	104	105	153	180
28	751	770	150	185	188	190	115	115	207	230	319	325	108	115	125	189
31	832	780	161	200	188	192	115	120	227	245	349	335	127	121	245	172
38	475	800	207	210	198	198	107	121	254	255	274	340	123	123	152	175
41	521	810	233	222	192	200	121	123	238	260	306	345	123	125	184	177
48	337	820	235	230	154	203	98	124	281	268	347	350	123	128	170	178
49	328	830	243	239	285	205	129	125	277	278	338	350	119	128	142	178

UPPER BAY (Cont'd)								
STATION 22								
1	25	25	23	23	2	2	8	8
3	83	83	82	80	20	20	28	28
5	138	115	77	77	53	48	54	43
7	123	140	104	98	58	53	87	54
10	181	170	128	118	74	88	84	88
15	215	210	120	143	97	80	85	80
20	223	234	148	183	127	87	88	88
25	231	255	194	175	104	88	89	89
30	265	285	181	182	115	89	89	89
35	277	277	171	189	127	90	82	90
40	258	280	190	190	123	90	93	90
45	300	285	218	190	134	90	74	90
50	281	287	187	188	127	90	75	90

HUDSON RIVER																
MILE -15								MILE -12								
2	1	1	1	1	13	10	2	2	1	1	1	1	73	73	77	73
4	3	8	5	6	22	28	13	15	11	11	9	9	100	110	94	138
6	12	15	13	15	51	48	34	34	27	27	25	25	138	130	170	170
8	29	25	25	25	61	81	56	53	45	45	50	45	204	148	217	180
11	43	38	39	39	87	78	76	78	68	68	78	68	211	185	234	200
16	50	50	60	60	111	100	107	107	88	88	81	88	238	200	202	220
21	63	84	89	78	107	118	133	130	98	98	112	106	300	225	199	240
26	73	78	88	94	119	132	150	150	92	112	112	122	245	255	223	260
31	91	91	108	110	142	145	170	170	104	122	122	138	360	280	259	287
36	108	108	128	127	154	156	195	195	138	134	152	152	314	300	240	279
41	123	120	148	148	181	185	219	218	142	142	174	185	211	320	278	285
48	130	136	183	183	173	173	236	236	148	148	184	180	234	340	275	295
49	142	150	181	181	177	180	247	247	154	152	195	185	257	355	305	298

HUDSON RIVER (Cont'd)								
MILE -9								
2	17	17	2	2	89	69	47	47
4	32	36	14	14	138	105	81	88
6	53	46	32	21	150	130	223	118
8	57	55	47	27	181	148	145	138
11	60	69	52	33	177	180	179	167
18	80	83	16	43	219	212	202	202
21	154	100	31	48	236	230	229	232
26	115	115	40	52	223	250	221	260
31	127	125	44	54	261	260	243	280
36	142	140	48	56	284	270	274	300
41	142	150	54	58	234	275	296	318
46	185	180	58	58	281	278	382	330
49	169	170	83	58	292	280	398	340

Table 9 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.		
HUDSON RIVER (Cont'd)																
MILE 8																
1	2	2	8	8	0	0	0	0								
3	-	11	-	24	1	1	1	1								
5	20	21	40	40	3	3	4	3								
7	28	28	53	63	8	7	8	7								
10	35	35	88	88	12	13	13	13								
15	44	48	74	74	18	19	21	19								
20	58	58	78	78	24	24	23	24								
25	64	62	78	83	28	28	29	27								
30	68	67	89	86	29	31	25	30								
35	73	73	88	88	35	34	30	32								
40	78	78	95	89	37	36	31	33								
45	77	79	84	90	38	38	35	35								
50	78	82	77	90	41	40	37	38								

MILE 3				EAST RIVER				MILE 9								
2	3	3	1	1	-	0	-	0	1	1	1	1	-	0	-	0
4	111	80	24	14	5	3	3	3	37	30	17	18	0	1	0	0
8	100	100	40	28	7	8	8	5	40	40	27	27	1	1	0	1
8	142	114	50	42	18	9	9	7	53	47	33	42	2	2	0	1
11	138	130	60	54	13	13	8	8	51	55	43	46	2	2	1	1
16	142	151	57	84	13	18	8	10	85	85	54	52	4	2	3	1
21	188	189	77	89	18	18	9	11	77	72	59	53	2	3	0	1
28	188	179	87	74	19	19	14	11	73	77	49	54	1	3	0	1
31	192	188	84	78	20	20	11	12	80	80	53	54	1	3	0	2
36	207	190	80	77	13	20	8	12	88	83	50	54	2	4	0	2
41	181	190	73	77	29	20	21	12	88	83	55	55	7	4	3	2
46	150	190	55	77	15	20	9	12	80	84	48	55	4	4	1	2
49	142	190	83	78	19	20	11	12	73	84	50	55	2	4	0	2

HEAD BAY							
2	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0
36	0	0	1	1	0	0	0
41	1	1	2	2	1	1	1
46	2	2	3	3	2	2	2
49	3	3	4	4	3	2	2

MILE 3				MARLEN RIVER				MILE 6								
2	1	0	0	0	3	3	0	0	0	0	0	6	4	1	1	
4	3	1	1	1	10	8	3	3	1	1	1	1	20	14	8	8
8	5	3	4	3	15	13	7	7	2	2	1	2	31	24	15	14
8	8	8	8	8	15	17	10	10	3	3	4	4	34	34	22	19
11	9	11	11	11	18	20	12	12	8	8	10	9	38	43	24	24
16	15	17	18	17	23	23	18	14	10	10	15	15	53	52	28	28
21	19	21	22	21	25	25	17	18	15	14	20	19	68	57	33	31
26	23	24	24	24	28	27	18	17	17	17	21	22	60	60	34	33
31	24	28	28	28	27	28	18	18	18	19	23	25	60	63	38	35
36	27	27	29	27	25	28	14	18	23	21	27	27	63	85	33	36
41	29	28	30	28	25	28	15	18	25	24	30	29	63	86	33	38
46	32	28	28	28	31	28	15	19	28	28	25	30	71	86	33	36
49	30	28	28	28	28	28	17	19	25	28	28	31	81	66	37	35

Table 10

Owl's Head and Passaic Valley Treatment Plant Effluent
Concentrations in Parts per Billion
 Coney Island and Staten Island Dikes Installed

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
	LOWER BAY															
	STATION 1								STATION 2							
1	0	0	2	2	0	0	0	0	0	0	2	2	0	0	0	0
3	0	0	4	5	0	0	0	0	0	3	3	21	0	2	0	3
5	2	2	10	10	0	0	1	1	20	8	58	58	5	5	12	10
7	4	8	17	19	4	4	11	8	28	12	83	68	25	8	45	16
10	28	24	58	31	39	17	57	24	21	19	62	88	12	14	25	25
15	41	39	79	54	49	27	68	39	86	38	188	120	25	24	47	47
20	61	50	117	80	30	40	40	52	107	60	215	150	76	37	91	76
25	63	60	121	110	30	52	40	64	84	80	184	178	81	52	102	102
30	54	74	106	140	53	63	71	80	79	100	180	205	97	68	133	130
35	86	88	163	170	76	72	98	98	140	120	239	225	112	84	153	153
40	72	104	138	205	78	80	113	115	135	135	228	240	99	101	133	180
45	68	120	131	230	83	84	113	136	86	150	92	250	99	120	112	190
50	144	140	263	260	111	85	161	160	158	158	238	250	139	140	170	200
	LOWER BAY (Cont'd)															
	STATION 3								STATION 4							
1	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0
3	0	0	4	7	0	0	0	4	0	0	3	0	0	0	4	0
5	6	6	21	21	5	12	10	12	0	2	3	10	0	2	5	10
7	27	14	86	48	25	25	63	33	15	16	51	38	53	16	55	38
10	20	29	41	74	24	37	61	60	23	43	63	80	61	43	56	80
15	56	54	92	115	66	59	103	92	76	73	141	137	65	73	128	137
20	107	82	165	150	84	76	116	115	111	98	193	182	90	98	158	182
25	93	110	158	180	86	86	123	125	111	111	214	210	113	111	211	210
30	121	120	207	205	96	96	137	135	116	121	232	230	120	121	239	230
35	130	130	220	225	121	108	182	143	132	132	228	250	132	132	256	250
40	142	142	238	238	105	117	158	156	139	140	260	260	143	140	260	260
45	140	148	227	240	126	126	168	168	143	148	249	265	141	148	260	265
50	149	151	235	240	144	137	192	172	150	150	270	270	153	150	291	270
	LOWER BAY (Cont'd)															
	STATION 5								STATION 6							
1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0
3	0	0	8	8	0	0	4	8	0	0	1	4	0	0	4	4
5	0	0	4	33	0	0	5	33	0	0	6	11	0	0	4	11
7	19	15	65	62	14	15	57	62	5	9	22	24	10	9	45	24
10	23	35	69	92	23	35	66	92	24	23	69	54	23	23	58	54
15	55	64	117	140	65	64	142	140	53	50	99	100	45	50	97	100
20	95	88	183	175	97	88	187	175	74	78	138	132	71	78	134	132
25	99	106	195	205	106	106	204	205	99	98	169	168	99	98	190	168
30	113	118	228	228	113	118	228	228	109	112	186	198	111	112	221	198
35	129	129	229	242	127	129	240	242	120	122	211	225	125	122	218	225
40	134	140	249	260	139	140	271	260	129	136	232	248	134	136	228	248
45	146	148	281	270	146	148	271	270	146	143	260	260	143	143	249	260
50	148	152	260	280	155	152	281	280	150	150	251	270	153	150	280	270
	LOWER BAY (Cont'd)															
	STATION 7								STATION 8							
1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	3	2	0	0	1	0
5	0	0	0	0	0	0	1	0	1	13	0	0	0	1	0	0
7	6	7	14	14	4	4	31	31	10	10	42	42	1	5	17	23
10	24	24	44	40	15	15	66	66	41	42	82	70	13	13	62	48
15	53	52	74	72	42	42	107	110	69	64	106	101	31	31	79	80
20	76	76	91	100	65	64	160	155	78	80	127	125	49	48	107	106
25	95	94	119	122	81	78	184	185	85	92	138	145	60	58	131	130
30	109	110	147	142	88	92	205	205	104	105	176	165	67	69	153	151
35	106	125	162	160	102	102	237	227	95	118	154	183	83	73	180	167
40	125	140	182	180	106	112	244	240	123	128	200	200	88	86	191	182
45	109	152	151	195	120	121	161	255	127	136	203	215	95	95	201	200
50	129	166	182	205	129	129	150	266	141	142	217	230	102	102	212	210

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 9								STATION 10								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0
5	8	6	23	33	1	5	4	5	12	12	33	33	0	0	3	11
7	47	32	71	60	9	14	30	30	25	29	52	50	6	9	23	29
10	51	43	89	86	27	26	74	50	62	48	89	72	21	21	61	48
15	65	70	103	110	44	42	75	75	74	72	102	102	38	38	61	74
20	90	90	133	132	70	56	116	98	85	88	120	120	54	52	89	90
25	109	110	165	156	76	68	116	116	99	102	140	140	59	64	103	102
30	125	125	203	180	77	76	134	132	118	118	164	161	66	74	114	118
35	137	137	220	201	86	86	152	150	127	127	186	182	82	82	145	135
40	143	146	227	222	93	92	169	169	134	134	199	200	84	90	152	150
45	155	155	244	240	98	98	169	180	146	142	206	220	91	91	162	162
50	139	160	206	261	103	103	183	192	143	146	181	235	89	92	152	180
LOWER BAY (Cont'd)																
STATION 11								STATION 12								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	8	0	0	0	1	0	0	0	6	6	0	0	5	0
5	9	16	36	36	2	0	8	24	10	10	38	38	1	0	5	10
7	25	30	55	56	24	14	76	39	28	28	62	68	2	0	17	28
10	49	46	86	86	53	34	114	62	53	49	96	96	19	19	52	49
15	69	70	139	126	44	52	97	96	67	67	131	128	36	38	61	78
20	88	86	155	155	67	67	121	120	71	80	134	150	58	56	99	100
25	99	100	179	180	78	78	141	140	88	94	173	175	67	66	121	120
30	111	110	203	200	88	86	163	160	109	108	215	196	74	74	138	138
35	120	120	241	220	95	95	179	180	120	120	239	220	90	84	154	152
40	132	130	242	238	104	102	194	194	129	130	218	235	88	96	170	170
45	143	139	249	250	111	108	207	207	141	141	249	250	97	100	187	185
50	146	142	249	260	111	112	207	211	148	150	249	267	102	105	190	200
LOWER BAY (Cont'd)																
STATION 13								STATION 14								
1	0	0	0	0	0	0	0	0	0	0	5	6	0	0	6	0
3	5	5	21	21	0	0	4	4	8	11	32	32	0	0	9	11
5	23	23	66	66	5	0	14	14	30	30	66	56	3	6	17	42
7	41	41	75	80	21	21	60	52	47	42	77	76	28	28	60	60
10	60	60	106	102	50	36	89	78	62	60	101	105	62	42	108	86
15	83	80	148	140	60	62	106	106	83	84	150	145	65	65	115	115
20	97	94	183	180	88	76	145	138	102	102	184	180	97	84	159	140
25	109	110	219	220	92	92	162	170	111	119	216	211	97	98	170	165
30	123	125	207	250	106	106	187	200	129	130	255	250	111	111	191	190
35	134	133	239	280	120	118	221	220	141	141	244	290	125	125	219	216
40	146	145	271	305	132	128	243	243	153	153	275	320	134	134	240	240
45	150	148	259	320	143	133	257	260	157	160	275	350	134	143	236	260
50	155	150	280	330	139	140	253	270	162	163	296	380	141	150	243	290
LOWER BAY (Cont'd)																
STATION 15								STATION 16								
1	0	0	2	10	0	0	4	2	0	0	3	3	0	0	4	0
3	7	7	20	30	1	0	6	7	5	5	13	23	0	0	6	6
5	35	35	57	57	16	16	48	56	29	29	52	50	3	5	14	29
7	51	51	58	70	34	38	77	80	41	49	65	66	16	27	59	59
10	71	71	71	86	61	56	104	100	69	66	72	84	50	50	94	94
15	95	94	109	110	70	72	128	128	83	84	114	110	63	69	119	125
20	109	110	131	130	86	86	146	152	99	99	134	134	84	84	153	153
25	120	122	151	151	100	100	181	176	109	110	152	152	98	98	188	180
30	132	135	165	172	112	112	198	202	127	125	176	172	110	110	205	210
35	143	146	186	192	121	124	226	226	139	140	190	190	121	123	244	240
40	157	152	196	215	137	135	254	250	150	152	203	203	135	135	261	260
45	162	160	198	231	144	142	265	270	160	165	199	220	144	144	265	280
50	162	162	189	250	151	150	264	290	164	180	206	230	156	156	264	310

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (CONT'D)																
STATION 17								STATION 18								
1	0	0	7	7	0	0	5	7	0	0	6	6	0	0	5	8
3	11	11	26	36	0	0	10	32	7	10	22	40	0	0	8	32
5	30	34	91	91	19	27	72	76	37	36	84	82	2	2	18	54
7	69	68	147	147	36	42	87	110	82	62	104	110	36	36	84	86
10	92	92	184	180	65	58	133	132	78	82	134	150	38	58	133	132
15	118	112	223	215	83	83	164	164	113	103	226	205	92	86	192	181
20	129	129	241	241	99	98	199	196	125	120	241	240	104	101	217	215
25	132	139	244	260	102	109	217	217	116	132	241	265	106	112	238	238
30	148	145	278	278	113	118	234	234	134	143	265	280	109	121	224	257
35	146	151	285	290	118	126	256	252	146	151	297	300	127	129	277	270
40	141	155	233	300	132	131	285	262	162	160	317	310	136	133	308	280
45	150	155	253	301	136	136	254	270	162	162	275	311	134	138	265	285
50	116	155	180	302	148	139	276	280	162	162	275	312	146	138	297	290
LOWER BAY (CONT'D)																
STATION 19								STATION 20								
1	0	0	7	7	0	0	5	0	0	0	2	7	0	0	5	5
3	5	5	16	50	0	0	6	6	6	9	26	26	0	0	9	25
5	36	30	109	88	3	7	30	20	41	33	21	50	10	10	49	49
7	62	62	119	112	30	31	73	68	55	58	23	77	47	47	102	75
10	74	74	139	145	53	53	94	98	83	83	31	110	58	61	115	115
15	99	100	217	195	76	75	143	143	109	105	53	68	78	78	157	152
20	116	113	233	230	102	80	188	178	120	120	64	96	99	98	184	182
25	123	126	251	260	102	102	206	203	125	132	245	130	116	110	223	212
30	116	136	180	280	113	112	223	223	102	142	171	171	120	123	241	241
35	132	142	211	300	109	121	217	240	127	150	245	205	134	134	244	270
40	146	149	254	315	129	129	265	255	153	153	285	242	146	146	276	300
45	157	152	275	325	132	134	254	268	153	160	275	280	153	153	296	322
50	150	155	243	330	146	140	276	271	141	161	244	320	155	157	382	345
LOWER BAY (CONT'D)																
STATION 21								STATION 22								
1	0	0	1	0	0	0	5	0	0	0	5	1	0	0	5	2
3	6	6	31	6	0	0	9	6	0	0	8	6	0	0	7	17
5	20	41	74	74	10	10	45	65	3	1	17	16	12	1	43	32
7	58	53	129	110	44	41	98	93	24	10	63	31	15	17	46	51
10	69	70	136	135	58	59	119	120	30	33	66	66	39	40	77	85
15	92	88	177	171	55	76	122	150	55	66	86	108	81	80	143	140
20	99	105	184	201	92	92	184	180	90	90	145	145	111	109	187	182
25	109	119	206	230	113	103	248	202	106	106	177	171	104	118	202	210
30	132	131	254	252	127	118	223	225	104	115	167	188	95	126	167	228
35	132	142	222	280	136	128	254	245	125	125	201	200	129	132	248	240
40	143	152	254	300	134	140	254	280	127	128	216	205	129	140	241	250
45	134	162	222	318	148	148	276	280	127	130	194	210	125	142	216	256
50	127	170	202	330	155	155	296	290	134	132	207	210	157	147	264	260
LOWER BAY (CONT'D)																
STATION 23								STATION 24								
1	0	0	3	1	0	0	8	2	0	0	13	13	0	0	5	13
3	0	0	5	16	0	14	11	33	14	14	72	72	30	14	112	92
5	14	4	45	34	23	29	106	75	39	39	84	107	62	57	151	130
7	14	21	43	53	19	43	56	110	51	52	133	133	74	74	148	146
10	60	45	73	87	67	68	136	160	71	72	153	153	78	88	146	162
15	51	78	73	135	97	92	209	210	97	96	184	181	104	104	195	195
20	113	96	166	161	111	110	241	232	111	111	212	210	106	121	195	220
25	111	110	178	170	104	128	249	250	123	123	237	230	146	136	244	244
30	120	120	176	176	141	138	244	251	132	135	265	255	150	150	275	272
35	139	128	193	180	118	145	202	258	139	142	276	276	148	160	288	290
40	123	135	173	182	136	150	233	260	150	150	296	296	157	166	317	317
45	141	140	188	186	136	152	222	280	155	158	296	310	171	175	284	328
50	139	141	181	186	153	155	253	281	157	160	317	320	181	181	316	338

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (CONT'D)																
STATION 25								STATION 26								
1	0	0	8	8	0	0	5	5	0	0	8	8	0	0	8	3
3	12	3	81	64	3	3	37	54	10	17	80	60	2	17	29	29
5	37	25	141	110	25	35	103	90	38	38	105	105	29	38	108	82
7	53	46	181	140	55	56	147	118	51	54	119	150	51	54	119	93
10	60	68	189	185	71	71	187	157	78	78	214	210	71	78	132	128
15	85	84	221	190	90	90	187	192	102	100	246	248	102	100	208	158
20	109	98	181	212	104	104	202	221	113	113	277	270	109	113	160	180
25	111	111	212	230	118	116	244	248	113	125	255	288	120	125	212	208
30	120	120	234	250	134	128	297	270	123	132	277	300	134	132	276	230
35	118	131	245	260	113	138	223	290	125	140	309	305	127	140	255	255
40	150	140	285	275	134	145	308	308	153	142	296	310	136	142	288	285
45	143	145	297	290	146	150	297	320	132	144	254	310	148	144	308	308
50	136	150	278	305	125	156	234	330	148	145	286	310	164	145	339	330
LOWER BAY (CONT'D)																
STATION 27								STATION 28								
1	0	0	8	9	0	0	6	9	0	0	2	2	0	0	0	2
3	14	14	110	82	0	14	29	82	14	7	104	40	4	7	17	40
5	39	42	123	120	33	42	148	120	36	32	114	108	27	32	107	108
7	44	58	112	135	62	58	127	135	44	58	65	138	59	58	138	138
10	74	76	210	160	76	76	164	160	81	78	176	170	75	78	158	170
15	92	94	181	200	95	94	199	200	97	100	232	203	105	100	207	203
20	109	109	213	240	111	109	191	240	106	115	175	235	110	115	174	235
25	129	120	330	270	118	120	212	270	132	129	270	260	121	129	239	260
30	136	132	361	300	136	132	297	300	141	140	366	285	133	140	302	285
35	134	140	308	320	134	140	318	320	146	148	280	305	137	148	312	305
40	150	149	328	330	143	149	340	330	157	154	301	320	130	154	291	320
45	127	158	255	332	148	158	308	332	146	160	291	335	154	160	322	335
50	136	160	278	332	162	160	392	332	157	182	311	342	163	182	344	342
LOWER BAY (CONT'D)																
STATION 29								STATION 30								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	19	15	18	13	3	15	5	13	20	21	21	15	8	15	14	16
5	33	49	30	30	29	49	49	30	38	33	33	33	41	40	76	50
7	52	68	47	47	69	68	57	47	51	48	44	48	51	60	64	77
10	96	82	83	68	78	82	77	68	70	72	70	68	78	77	99	100
15	96	100	87	86	97	100	91	86	96	86	87	86	95	95	119	121
20	100	118	73	100	106	118	105	100	117	117	100	100	106	108	144	145
25	128	130	93	110	111	130	118	110	142	132	121	111	118	120	143	163
30	140	142	135	118	124	142	181	118	144	148	135	120	132	130	176	185
35	147	152	128	128	141	152	160	128	158	160	155	128	139	140	181	205
40	163	163	130	131	164	163	209	131	181	168	130	132	162	148	220	220
45	168	171	141	135	157	171	166	135	170	178	140	136	164	152	198	240
50	179	178	126	138	174	178	178	138	182	182	133	140	157	154	195	250
LOWER BAY (CONT'D)																
STATION 31								STATION 32								
1	1	0	4	0	0	0	2	2	1	1	4	1	0	0	0	0
3	13	11	16	11	7	11	13	30	8	12	12	12	9	12	19	23
5	47	30	56	31	40	30	78	55	47	27	55	27	44	42	81	62
7	48	50	35	48	55	50	68	78	39	41	41	41	58	60	75	75
10	82	72	48	85	76	72	99	100	80	82	82	58	78	74	95	95
15	92	94	87	85	95	94	118	120	85	84	84	84	95	92	116	118
20	97	110	112	100	109	110	141	138	102	100	94	94	106	109	137	137
25	125	125	112	111	111	125	154	154	113	115	107	107	111	123	147	150
30	134	134	135	120	127	134	172	172	127	127	122	120	139	140	199	182
35	157	142	184	130	141	142	185	185	139	141	131	130	143	151	192	178
40	157	150	138	135	153	150	198	198	171	152	151	140	153	165	186	188
45	160	130	120	140	182	160	195	205	182	183	116	148	182	176	191	191
50	167	183	138	142	160	163	191	211	171	171	140	155	182	185	180	198

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
LOWER BAY (Cont'd)																
STATION 33								STATION 34								
1	1	5	4	4	0	0	1	0	0	0	0	0	0	0	2	0
3	34	34	54	34	2	3	3	3	10	4	4	4	3	4	6	4
5	65	52	53	48	30	30	60	29	25	19	19	19	24	19	22	19
7	51	69	39	58	60	60	74	75	27	31	26	32	24	31	27	32
10	62	85	50	72	74	70	116	116	45	45	48	45	42	45	46	45
15	102	102	98	88	83	83	133	145	65	60	61	64	65	60	65	64
20	109	112	101	100	113	94	178	168	74	74	74	82	76	74	82	82
25	125	125	136	112	106	106	157	180	81	86	196	101	95	86	106	101
30	134	136	139	125	123	118	189	191	99	99	120	122	106	99	127	122
35	143	146	131	138	134	130	205	203	109	112	145	143	118	112	148	143
40	155	155	145	146	139	140	209	209	129	125	172	168	139	125	168	168
45	162	162	127	158	148	148	209	211	132	140	189	191	139	140	190	191
50	171	171	137	162	157	157	215	215	146	150	211	212	153	150	206	212

LOWER BAY (Cont'd)																
STATION 35								STATION 36								
1	0	0	5	2	0	0	2	2	0	0	1	0	0	1	0	1
3	3	1	9	9	2	1	6	9	13	6	6	6	1	8	4	8
5	16	8	16	16	16	8	16	16	37	25	30	25	10	9	8	9
7	19	19	23	23	17	19	22	23	38	45	35	45	17	20	15	20
10	32	32	38	36	33	32	38	36	60	60	65	62	40	40	42	40
15	62	52	65	62	60	52	65	62	76	72	78	76	55	55	50	61
20	67	70	76	84	76	70	85	84	78	82	92	92	71	71	78	78
25	88	84	100	103	102	84	106	103	92	92	105	110	99	84	105	101
30	99	99	124	123	113	99	130	123	104	104	130	130	102	102	127	122
35	109	113	142	148	116	113	148	148	116	117	154	151	116	118	144	142
40	136	130	172	170	143	130	168	170	141	130	182	178	136	130	168	168
45	134	142	190	190	141	142	190	190	143	143	203	203	148	142	193	193
50	148	160	207	210	153	160	203	210	150	157	217	235	150	155	206	220

LOWER BAY (Cont'd)																
STATION 37								STATION 38								
1	1	0	3	3	0	0	0	0	1	2	2	0	0	0	0	0
3	34	0	16	16	1	0	3	3	19	19	8	9	2	2	0	2
5	29	8	24	24	11	8	8	8	54	33	44	37	8	8	6	6
7	17	15	16	30	13	15	15	15	42	42	50	54	18	20	12	13
10	28	32	32	44	32	33	33	33	75	52	76	76	27	30	29	30
15	51	54	67	67	60	51	76	54	86	66	94	94	52	52	64	64
20	78	76	90	88	67	67	81	76	82	80	112	110	61	74	70	80
25	90	88	103	107	81	81	94	100	96	96	125	131	96	96	97	96
30	102	102	128	128	99	96	125	128	112	112	149	152	108	112	118	115
35	116	116	152	150	118	110	149	150	137	128	188	178	128	128	146	135
40	127	127	174	174	139	128	177	175	140	142	205	200	140	142	166	160
45	136	140	198	198	148	145	198	198	144	160	229	225	154	160	183	185
50	150	150	211	220	162	162	219	220	168	172	251	250	161	172	194	210

LOWER BAY (Cont'd)																
STATION 39								STATION 40								
1	1	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0
3	26	26	4	5	0	0	5	5	3	2	2	1	0	0	3	3
5	37	36	9	9	3	2	9	9	21	13	7	6	4	4	7	7
7	19	43	6	14	4	7	14	14	14	24	5	11	9	8	14	15
10	68	52	28	19	9	18	28	28	48	37	22	21	12	17	26	32
15	91	64	39	27	41	39	65	62	61	50	32	33	26	28	66	66
20	96	78	59	35	52	50	82	89	63	64	43	43	37	37	87	96
25	86	94	33	44	-	61	168	111	79	79	53	53	70	47	120	113
30	103	108	47	54	70	70	135	135	93	93	73	64	68	56	139	135
35	112	122	71	64	91	80	162	155	110	109	76	76	70	68	152	155
40	133	138	70	76	91	90	184	180	124	124	87	87	84	80	177	180
45	144	152	88	88	96	98	194	200	133	140	97	99	94	92	201	200
50	168	168	105	105	101	108	216	220	158	155	114	114	101	105	223	220

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 41								STATION 42								
1	1	1	0	0	1	0	2	2	1	1	1	1	0	0	3	1
3	10	4	1	1	2	1	3	5	22	4	9	4	2	2	5	4
5	9	9	5	5	11	4	8	10	9	7	3	8	7	4	11	8
7	13	15	8	11	8	8	17	17	14	12	7	14	8	7	14	14
10	24	24	19	22	16	16	33	30	21	23	19	28	13	13	29	28
15	46	40	47	40	32	30	69	51	49	48	56	49	27	30	62	49
20	59	59	71	57	42	44	74	74	59	60	83	75	42	50	74	75
25	89	74	83	78	62	59	95	95	100	74	96	94	65	83	95	94
30	83	91	83	98	74	73	128	123	110	90	120	114	71	73	115	114
35	103	108	111	116	85	85	147	147	107	107	136	138	81	83	137	138
40	119	122	127	131	95	95	168	168	119	123	145	154	92	92	157	154
45	137	135	151	150	102	105	186	190	142	140	173	173	99	99	182	173
50	147	143	162	160	111	111	202	202	158	156	190	193	106	106	196	193
LOWER BAY (Cont'd)																
STATION 43								STATION 44								
1	1	1	1	1	2	2	2	1	0	0	1	1	0	0	2	2
3	10	13	6	6	3	3	5	8	21	27	8	8	1	1	5	5
5	83	33	39	12	6	5	11	12	38	38	24	24	4	4	12	12
7	63	48	55	22	11	9	15	22	51	47	44	44	9	8	9	20
10	40	58	43	43	14	14	29	43	58	58	59	59	3	14	30	35
15	91	75	75	68	28	28	64	68	85	72	83	78	19	24	82	50
20	79	88	87	87	41	42	78	87	78	86	94	98	32	36	74	79
25	98	103	96	107	62	57	95	107	95	102	111	119	48	49	99	99
30	119	113	131	128	67	70	120	128	109	115	128	140	85	64	120	120
35	128	125	145	145	81	80	140	145	143	130	166	160	78	78	144	140
40	130	138	159	163	88	89	169	163	189	143	200	180	95	90	164	184
45	142	148	173	181	97	98	186	181	150	158	197	200	108	104	182	187
50	154	156	190	200	106	106	207	200	167	170	222	222	118	118	202	208
LOWER BAY (Cont'd)																
STATION 45								STATION 46								
1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
3	12	12	0	0	2	2	5	5	19	24	4	4	2	2	3	2
5	48	48	9	9	5	4	11	11	53	38	42	33	7	7	8	7
7	58	53	20	19	4	7	16	18	32	46	28	45	13	13	13	16
10	58	58	28	27	12	13	30	33	85	56	59	59	25	28	30	33
15	62	66	37	37	27	28	69	56	69	72	80	80	44	51	81	60
20	76	78	53	46	41	43	81	83	87	84	95	100	53	72	66	80
25	85	86	44	57	82	57	98	109	92	98	118	120	88	88	101	100
30	104	97	61	68	69	68	130	135	109	111	150	145	104	100	121	120
35	123	112	77	77	78	80	151	161	129	125	181	170	118	113	142	140
40	139	128	87	87	102	93	189	189	143	138	198	195	125	125	160	160
45	146	148	105	98	97	108	200	208	148	148	219	220	134	138	176	183
50	167	187	104	108	102	122	207	220	160	160	240	250	148	148	191	207
LOWER BAY (Cont'd)																
STATION 47								STATION 48								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	14	3	4	12	2	2	4	2	25	2	11	23	5	4	0	0
5	43	12	33	33	8	8	9	8	58	10	40	40	12	12	8	4
7	27	28	33	48	15	14	13	14	53	21	50	50	21	28	15	15
10	58	45	71	84	24	28	28	33	88	37	79	82	25	43	25	33
15	71	66	83	83	51	53	88	82	51	54	55	80	85	82	58	54
20	87	81	98	105	60	89	77	83	88	68	104	98	65	77	70	72
25	92	96	118	129	97	85	107	105	85	82	115	120	95	93	96	91
30	111	111	149	150	102	100	127	127	97	97	128	140	99	108	121	112
35	129	125	181	173	125	112	183	148	118	112	156	160	113	122	138	138
40	146	138	201	196	132	129	176	172	129	128	181	180	136	138	173	160
45	153	150	222	220	143	140	191	195	141	141	201	201	157	152	193	185
50	187	182	240	240	150	155	204	215	150	153	215	220	182	184	211	214

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (Cont'd)																
STATION 49								STATION 50								
1	1	1	2	2	0	1	0	0	0	0	0	0	0	0	0	0
3	9	7	7	14	2	7	0	0	3	4	4	4	1	4	2	4
5	5	16	31	29	13	16	7	5	16	14	11	14	15	14	8	14
7	9	29	51	43	18	29	13	15	25	25	28	28	18	24	16	28
10	69	46	59	59	33	46	34	36	47	35	51	44	35	37	34	44
15	60	63	66	77	65	63	66	66	46	48	46	64	51	64	45	64
20	76	78	91	95	74	78	79	84	60	62	63	81	67	68	70	81
25	85	90	108	114	92	90	100	105	78	75	90	100	97	83	107	100
30	102	106	132	134	102	106	125	125	92	89	114	120	106	99	125	120
35	113	120	152	152	113	120	145	146	109	102	139	140	111	114	142	140
40	129	132	174	172	136	132	169	169	123	118	163	160	132	130	162	160
45	143	146	191	190	155	146	197	190	134	132	160	162	143	146	160	162
50	150	158	211	211	155	158	206	210	146	148	198	203	153	162	197	203
LOWER BAY (Cont'd)																
STATION 51								STATION 52								
1	0	0	0	0	0	0	0	0	1	2	2	2	0	0	0	0
3	19	7	7	5	3	7	2	5	18	15	7	15	7	7	0	0
5	41	19	29	13	12	19	6	13	62	30	46	30	18	18	11	11
7	47	30	46	24	19	30	13	24	62	48	48	48	20	33	17	26
10	55	41	38	37	34	41	32	37	51	63	45	67	47	50	50	50
15	60	56	52	54	60	56	55	54	106	81	107	87	69	68	70	70
20	65	73	73	75	69	73	73	75	88	95	108	105	62	82	80	88
25	97	90	100	95	97	90	100	95	113	108	124	124	97	95	111	110
30	111	106	117	120	106	106	125	120	123	118	149	145	109	109	136	130
35	120	120	149	140	111	120	142	140	136	128	173	165	120	118	156	150
40	134	134	166	160	139	134	162	160	146	138	191	185	136	130	190	172
45	141	141	184	180	143	141	180	180	141	145	205	205	150	140	204	195
50	150	155	200	200	153	155	197	200	158	150	222	220	150	148	215	215
LOWER BAY (Cont'd)																
STATION 53								STATION 54								
1	1	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
3	9	22	8	16	5	8	0	0	0	0	3	4	16	4	4	4
5	40	36	32	25	22	22	15	15	2	2	7	13	30	13	18	13
7	28	48	30	34	26	36	22	22	4	5	11	23	25	23	24	23
10	65	60	66	49	51	47	50	34	14	14	24	35	25	35	30	35
15	83	76	83	74	62	62	59	57	29	30	50	60	45	60	63	60
20	51	92	73	100	62	76	73	60	51	47	77	64	95	64	111	84
25	83	105	108	128	85	90	101	105	62	64	95	110	111	108	120	106
30	125	120	163	150	102	102	136	132	83	81	144	135	127	121	142	121
35	141	132	184	177	108	118	150	155	102	97	161	161	136	136	168	136
40	146	142	198	198	127	130	177	160	111	111	174	183	155	146	179	146
45	163	156	215	215	155	143	206	200	111	121	196	200	160	156	197	156
50	162	166	229	230	160	156	218	215	164	130	236	216	164	164	204	164
LOWER BAY (Cont'd)																
STATION 55								STATION 56								
1	1	0	0	0	0	0	0	0	0	0	4	4	0	0	10	12
3	0	0	3	3	3	3	4	3	6	20	5	8	5	12	15	23
5	2	2	7	7	11	8	8	8	39	38	13	12	18	18	36	31
7	5	5	12	12	16	15	15	15	47	47	27	16	18	21	42	42
10	12	11	21	22	30	30	31	30	60	56	40	22	25	27	56	55
15	28	30	47	43	71	58	69	69	71	71	60	33	37	35	79	83
20	51	48	86	70	85	76	101	98	78	83	55	46	56	45	121	112
25	60	64	84	91	104	93	118	120	67	97	60	60	68	57	145	140
30	78	80	119	110	120	110	145	140	109	110	72	75	92	68	172	172
35	99	96	139	136	132	125	162	158	125	125	93	90	97	82	190	200
40	109	112	161	158	125	140	177	175	146	138	109	105	95	95	208	225
45	120	130	177	180	136	152	191	191	132	149	120	120	109	112	226	245
50	150	160	206	200	146	165	205	205	164	160	119	130	127	127	271	260

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
LOWER BAY (CONT'D)																
STATION 57								STATION 58								
1	0	0	2	2	0	0	5	0	9	0	0	0	0	15	0	
3	9	11	4	5	10	11	5	17	20	17	4	3	2	2	17	3
5	19	23	8	10	26	23	36	31	23	25	12	11	7	7	20	11
7	38	34	18	17	30	34	41	45	39	32	30	22	9	12	22	22
10	43	43	26	28	19	43	39	59	50	43	42	42	25	20	32	42
15	62	57	40	40	90	57	119	80	90	85	68	85	37	35	65	65
20	71	72	60	53	62	72	107	102	78	78	79	82	53	50	73	62
25	69	86	38	67	88	86	127	127	92	92	93	102	60	65	88	102
30	104	104	65	79	102	104	173	183	116	110	120	120	83	83	122	120
35	125	118	96	90	95	116	164	160	134	124	134	140	97	97	143	140
40	153	132	98	98	104	132	194	210	148	138	151	158	111	111	167	158
45	123	148	107	107	160	148	248	240	141	154	166	173	120	120	181	173
50	134	164	99	112	148	164	264	278	153	170	183	192	127	130	199	192
LOWER BAY (Cont'd)																
STATION 5A								STATION L-7								
2	76	76	26	30	71	80	0	26	0	0	0	0	0	0	1	0
4	134	110	67	67	443	170	37	39	0	0	0	0	0	0	2	2
6	183	137	90	90	332	225	57	56	0	0	1	0	0	0	4	3
8	170	160	118	118	507	265	74	78	1	1	2	2	0	0	5	4
11	177	185	150	150	313	313	143	110	0	3	2	4	0	0	5	5
16	196	220	196	196	345	345	164	160	2	7	5	7	2	2	7	7
21	235	250	233	222	404	385	197	192	12	11	14	13	3	4	9	9
26	274	270	232	245	281	405	179	211	17	16	18	18	7	6	6	12
31	248	290	255	260	268	420	200	230	23	22	25	25	7	9	10	16
38	306	306	252	280	423	423	235	241	29	29	32	32	16	13	19	21
41	274	310	274	290	294	430	273	252	36	36	42	41	13	17	17	28
46	313	320	240	295	313	430	230	260	44	44	44	50	21	22	23	31
49	274	320	296	300	300	430	263	260	49	49	49	55	27	26	36	36
LOWER BAY (Cont'd)																
STATION L-10								STATION L-12								
2	0	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0
4	0	1	2	2	0	0	0	0	0	8	2	2	0	0	2	0
6	1	3	2	4	0	0	1	1	1	10	4	5	0	0	3	3
8	5	5	11	7	0	0	2	2	17	15	34	9	0	0	4	6
11	13	11	17	13	0	0	4	3	24	24	34	27	5	6	11	11
16	18	24	18	25	2	2	7	7	37	39	44	33	23	9	32	29
21	39	42	46	40	4	8	11	13	44	55	55	52	31	20	40	50
26	62	60	51	55	11	12	17	20	74	71	64	71	88	40	78	71
31	78	74	71	68	21	19	27	27	83	86	78	86	92	64	81	88
38	88	85	78	78	26	25	35	34	76	100	60	100	97	83	92	100
41	95	95	95	88	30	30	40	39	118	112	133	112	111	112	108	112
46	99	106	95	95	30	32	38	42	132	123	140	123	116	123	96	123
49	113	113	105	102	33	33	40	44	134	128	115	128	127	128	108	128
LOWER BAY (Cont'd)																
STATION L-14								STATION L-17								
2	0	0	0	0	0	0	1	1	3	1	0	0	0	0	3	3
4	0	0	0	0	0	0	2	2	3	3	1	0	1	0	5	5
6	0	9	2	5	0	0	3	3	6	6	3	0	3	3	10	10
8	20	19	23	23	14	4	25	8	8	11	3	3	9	9	15	15
11	20	30	27	37	9	14	10	10	20	20	8	8	18	20	21	27
16	25	50	25	41	19	39	23	21	41	41	53	21	42	41	54	51
21	95	66	99	52	97	52	95	35	74	64	55	41	89	64	68	68
26	85	80	71	64	62	64	54	53	68	86	66	66	83	86	78	88
31	62	91	85	78	78	78	64	70	107	107	86	84	104	107	96	107
36	99	102	84	86	88	86	82	84	121	125	100	100	123	125	119	125
41	113	113	101	96	102	96	98	96	132	140	109	112	129	140	140	140
46	92	121	95	109	129	109	108	109	143	148	113	120	143	148	132	148
49	126	126	116	116	111	116	101	116	151	151	123	123	150	151	131	151

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water				
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	
LOWER BAY (Cont'd)																	
STATION L-19								STATION L-20									
2	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	1	0
4	0	0	2	2	1	0	6	6	0	0	0	0	0	0	0	4	0
6	0	0	0	5	4	0	10	11	4	4	11	15	3	4	9	15	
8	0	3	2	11	0	3	10	19	7	7	30	31	9	7	35	32	
11	5	9	26	26	6	9	35	35	14	14	52	52	13	14	49	49	
16	61	21	68	46	21	21	72	60	38	29	98	80	20	29	75	72	
21	73	34	78	74	29	34	77	87	44	44	112	112	45	44	97	97	
26	47	47	112	109	48	47	108	110	58	58	147	142	63	58	131	126	
31	62	60	143	143	63	60	136	136	67	72	172	172	66	72	153	153	
36	74	74	178	178	72	74	160	160	78	84	199	201	79	84	180	180	
41	83	83	199	203	82	83	181	181	68	94	221	227	91	94	204	204	
46	90	94	220	220	93	94	205	205	95	101	238	246	100	101	226	226	
49	99	99	241	230	103	99	223	223	102	103	256	253	105	103	240	237	

LOWER BAY (Cont'd)																
STATION L-21					STATION L-23											
2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	2
4	0	0	0	0	1	0	3	0	0	0	5	5	1	0	5	5
6	3	3	6	6	2	2	7	7	3	3	11	11	2	3	7	10
8	9	6	20	16	6	6	11	16	9	9	23	23	10	9	19	19
11	10	12	34	34	17	17	46	46	18	16	57	55	13	16	34	34
16	29	29	67	67	36	36	79	76	28	29	82	82	27	29	65	65
21	44	44	94	92	45	49	97	98	42	42	106	106	22	42	32	91
26	55	54	118	118	59	60	121	121	55	54	138	129	55	54	127	115
31	60	63	136	138	66	69	146	146	62	66	155	155	45	66	81	140
36	69	72	154	154	79	78	177	170	71	76	179	179	75	76	176	163
41	81	81	178	178	86	86	199	199	83	85	208	208	86	85	197	190
46	88	88	203	200	93	94	212	221	92	94	228	230	96	94	218	218
49	92	89	216	216	98	98	230	240	97	96	246	246	100	96	221	231

JAMAICA BAY								RARITAN CHANNEL								
STATION J-1				STATION 25												
2	3	3	4	4	0	0	0	0	0	2	0	0	0	0	0	0
4	6	6	9	11	0	0	3	8	0	0	0	0	0	0	5	0
6	4	9	14	19	4	4	12	12	0	0	0	0	0	0	3	0
8	9	13	28	28	6	6	9	15	1	0	3	0	0	0	5	0
11	14	18	42	40	10	10	13	21	0	2	0	0	0	0	5	0
16	29	29	63	64	13	17	28	32	0	3	0	0	0	0	1	1
21	41	40	87	90	42	25	94	44	3	1	4	4	0	0	6	6
26	55	53	114	118	30	34	51	60	6	7	13	13	4	4	12	15
31	65	64	143	143	67	44	125	75	17	16	25	25	13	12	29	29
36	76	76	163	170	53	54	89	92	18	28	29	40	22	22	49	45
41	85	88	188	190	58	63	107	107	35	39	55	55	29	34	63	63
46	95	97	209	210	67	72	125	125	47	47	61	68	45	45	75	75
49	97	102	223	223	69	75	136	136	54	54	74	74	51	50	85	83

RARITAN CHANNEL (Cont'd)																
STATION 30					STATION 35											
2	0	0	0	0	0	0	0	0	6	6	4	6	0	0	0	0
4	0	0	0	0	0	0	3	2	23	23	36	36	3	6	10	10
6	1	3	3	5	0	0	3	4	38	38	41	48	14	14	40	21
8	13	13	31	31	0	1	6	6	60	52	54	64	31	24	52	35
11	28	28	42	42	3	5	13	13	69	70	83	83	37	37	54	59
16	53	46	54	58	18	18	39	35	104	95	120	120	62	62	103	103
21	60	60	76	76	30	35	66	65	113	115	137	145	76	84	138	150
26	74	73	96	94	51	49	81	81	129	127	166	166	106	104	190	190
31	97	87	113	113	58	62	92	102	136	138	186	183	113	118	203	210
36	99	102	135	135	76	72	127	123	148	148	200	200	127	129	228	225
41	81	118	103	158	85	82	145	145	157	158	210	212	143	140	239	239
46	118	132	162	160	90	92	147	160	167	168	224	222	150	150	248	248
49	120	140	155	198	46	98	79	172	176	172	231	231	155	157	270	250

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
RARITAN CHANNEL (Cont'd)																
STATION 40																
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	1	0	1	5	5	5	5	5	5	5	5	5	5	5
6	3	3	6	6	20	19	43	19	19	19	19	19	19	19	19	19
8	7	8	12	12	30	29	47	33	33	33	33	33	33	33	33	33
11	18	18	34	26	40	41	57	51	51	51	51	51	51	51	51	51
16	37	37	53	56	55	60	78	83	83	83	83	83	83	83	83	83
21	67	62	91	90	85	83	141	112	112	112	112	112	112	112	112	112
26	81	85	126	122	97	102	158	142	142	142	142	142	142	142	142	142
31	102	104	153	150	123	120	203	173	173	173	173	173	173	173	173	173
36	120	120	177	172	138	135	217	200	200	200	200	200	200	200	200	200
41	129	134	195	195	139	150	224	225	225	225	225	225	225	225	225	225
46	143	144	212	212	150	162	241	250	250	250	250	250	250	250	250	250
49	148	150	223	220	182	170	255	260	260	260	260	260	260	260	260	260

KILL VAN KULL																
STATION 3																
1	25	25	45	45	1	0	9	9	9	9	9	9	9	9	9	9
3	69	70	144	140	1	1	34	34	34	34	34	34	34	34	34	34
5	97	95	177	185	9	9	71	71	71	71	71	71	71	71	71	71
7	113	110	194	185	23	23	105	101	101	101	101	101	101	101	101	101
10	127	121	212	212	39	39	147	147	147	147	147	147	147	147	147	147
15	143	135	244	282	65	85	214	208	208	208	208	208	208	208	208	208
20	143	146	340	310	95	90	287	251	251	251	251	251	251	251	251	251
25	151	156	371	350	109	105	309	293	293	293	293	293	293	293	293	293
30	153	180	403	380	123	118	351	325	325	325	325	325	325	325	325	325
35	140	168	383	410	125	125	351	351	351	351	351	351	351	351	351	351
40	153	170	339	430	129	130	372	370	370	370	370	370	370	370	370	370
45	159	170	350	450	129	133	340	390	390	390	390	390	390	390	390	390
50	166	170	307	460	132	135	371	400	400	400	400	400	400	400	400	400

UPPER BAY																
STATION 5					STATION 11											
1	6	10	48	58	10	10	217	12	27	43	62	94	0	4	37	39
3	50	50	183	128	34	42	255	43	85	81	150	142	11	13	106	82
5	76	76	200	168	69	68	141	120	101	102	188	175	30	28	137	102
7	92	92	220	200	88	82	214	168	120	117	208	208	48	50	205	180
10	111	115	258	231	99	100	213	211	143	136	179	243	74	74	246	230
15	141	145	265	281	123	120	319	275	155	152	221	291	106	103	299	300
20	152	170	285	285	129	133	319	320	140	160	318	310	125	125	352	350
25	185	180	327	305	167	142	350	342	179	163	316	320	132	132	393	360
30	179	190	306	320	148	150	425	360	159	169	350	325	136	138	393	371
35	198	195	315	330	155	158	564	370	146	170	351	330	134	139	372	380
40	192	200	390	335	162	160	307	380	179	173	370	330	141	140	415	388
45	179	200	327	338	150	160	253	381	172	177	295	333	139	141	361	392
50	185	200	338	335	157	180	360	381	166	180	317	333	141	142	383	398

UPPER BAY (Cont'd)																
STATION 13A					STATION 13											
1	34	9	8	9	17	20	9	17	25	25	9	11	17	54	5	23
3	28	44	44	44	52	52	60	60	28	43	45	44	49	72	73	52
5	63	82	125	62	87	72	96	82	72	57	148	84	87	82	89	76
7	77	78	80	78	94	94	199	105	82	70	84	84	87	83	106	94
10	103	103	108	103	111	111	183	138	91	88	101	108	108	106	149	122
15	154	119	173	142	143	128	222	180	172	111	168	150	134	133	175	175
20	110	132	168	180	143	143	229	229	107	130	183	185	148	158	204	215
25	172	145	211	210	185	156	220	250	104	147	198	204	218	178	196	250
30	149	153	235	232	169	169	246	271	139	157	228	220	270	191	183	275
35	160	160	262	245	169	173	217	290	152	170	205	230	231	203	183	288
40	256	182	286	252	172	178	466	300	230	179	244	240	159	209	435	292
45	185	165	238	260	172	180	135	301	184	182	226	242	172	210	135	292
50	275	166	264	284	185	180	306	302	275	186	274	242	179	211	156	292

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.	Effl. Obs.	Conc. Cor.
STATION 138																
1	14	16	8	9	23	27	9	8	13	13	35	23	0	0	0	12
3	43	32	50	27	78	84	50	17	29	33	138	120	3	3	12	28
5	-	43	-	71	231	121	1	23	51	54	180	150	11	11	40	40
7	58	52	58	94	179	152	14	30	80	78	183	180	20	21	55	52
10	210	87	131	129	114	181	38	42	99	104	219	219	34	33	79	74
15	171	94	185	158	263	225	40	81	111	138	279	279	51	81	114	110
20	107	120	190	184	185	261	50	82	122	150	290	306	68	82	148	143
25	145	141	195	209	250	295	54	102	155	170	406	315	68	68	143	150
30	133	160	206	226	334	320	60	123	131	174	321	321	73	72	142	153
35	158	180	234	240	205	335	58	141	115	180	204	325	73	75	134	158
40	184	190	250	250	159	342	275	155	131	181	278	330	68	77	128	160
45	184	194	243	256	198	347	168	168	125	182	194	330	68	78	118	161
50	197	191	260	260	237	349	185	173	125	184	215	330	75	78	124	181

UPPER BAY (Cont'd)																
STATION 14A								STATION 18								
2	22	22	17	12	4	4	8	8	38	30	29	29	0	0	7	4
4	37	37	60	56	15	15	32	32	83	74	79	74	4	4	54	52
6	53	58	73	84	28	28	81	81	101	98	118	108	19	15	72	74
8	48	78	108	104	42	40	92	72	115	109	135	130	31	27	96	94
11	51	109	134	129	44	48	81	81	115	120	192	157	42	37	117	117
16	50	128	159	159	55	53	138	93	138	131	228	198	51	53	138	141
21	50	158	180	180	55	55	130	100	141	135	228	232	89	68	177	158
26	205	188	191	181	44	58	78	108	155	157	258	270	83	78	172	170
31	211	202	183	191	41	58	74	109	169	170	289	290	81	81	179	187
36	218	212	185	192	85	58	105	110	172	180	289	310	78	74	144	200
41	218	220	172	192	58	58	88	110	185	190	321	320	83	86	151	215
46	231	230	164	192	51	59	63	110	198	201	320	320	74	86	129	230
49	278	231	173	193	58	60	77	110	205	210	192	320	81	86	140	240

UPPER BAY (Cont'd)																
STATION 17																
2	49	50	20	20	15	7	5	5								
4	139	82	50	50	18	18	19	25								
6	137	94	82	80	40	25	44	40								
8	116	112	122	100	32	32	41	50								
11	146	140	143	125	53	43	81	58								
16	172	180	166	168	78	56	89	70								
21	238	205	195	195	44	82	76	78								
26	154	225	215	215	51	68	75	77								
31	180	240	219	219	39	87	58	78								
36	245	250	202	220	41	68	55	79								
41	225	251	217	220	48	68	82	80								
46	251	253	208	220	87	89	61	81								
49	264	255	230	220	58	69	54	81								

UPPER BAY (Cont'd)																
STATION 18																
1	4	4	40	40	0	4	35	40								
3	40	40	154	150	25	25	162	150								
5	72	70	81	170	53	53	171	170								
7	91	88	201	190	87	87	189	190								
10	105	100	251	220	85	85	217	220								
15	133	122	253	260	109	110	289	235								
20	142	145	285	292	116	128	285	250								
25	175	168	326	320	148	140	328	265								
30	171	180	337	337	118	132	276	276								
35	178	190	389	348	129	160	254	280								
40	197	197	379	353	143	162	285	290								
45	197	200	304	380	141	168	221	294								
50	204	200	325	360	134	168	232	298								

Table 10 (Cont'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
UPPER BAY (Cont'd)																
STATION 19								STATION 20								
2	283	50	19	28	48	48	7	7	26	35	122	90	2	16	87	55
4	620	205	45	52	74	72	38	38	87	87	109	180	24	29	107	100
8	250	250	81	78	106	88	66	68	80	80	194	190	47	38	181	125
8	276	280	109	96	113	100	85	85	99	94	214	208	52	47	191	150
11	483	330	124	122	104	111	111	108	108	229	232	58	58	191	182	
16	328	410	171	171	139	124	137	140	131	128	259	278	97	72	240	210
21	380	490	200	203	138	136	182	183	143	143	302	312	95	84	218	235
28	529	530	211	218	139	142	180	172	159	159	344	340	113	94	249	255
31	498	550	191	223	164	148	166	183	173	385	367	102	102	218	267	
38	820	840	202	230	141	153	144	190	183	375	382	104	109	143	290	
41	484	660	228	235	150	157	154	196	185	396	398	104	112	175	305	
48	660	660	188	240	155	180	133	202	211	210	351	400	113	115	196	318
49	548	660	239	240	157	160	140	205	218	218	373	400	118	115	185	320
UPPER BAY (Cont'd)																
STATION 22								MUDSON RIVER STATION 8								
1	14	11	15	11	1	8	8	11	0	0	2	2	0	0	0	0
3	82	48	67	55	15	18	79	52	4	6	22	22	0	0	2	2
5	66	66	93	80	32	29	76	76	18	18	70	48	1	1	6	6
7	89	86	174	100	58	44	96	96	24	24	89	84	4	4	16	16
10	117	112	104	132	82	66	82	130	30	34	82	82	9	9	30	29
15	149	149	125	170	83	83	184	180	48	48	114	109	16	16	47	47
20	151	182	199	195	97	94	212	212	59	59	142	129	24	23	65	64
25	171	178	230	220	118	103	240	240	64	64	142	142	29	30	78	78
30	191	191	240	240	113	110	243	270	68	68	152	152	34	35	59	66
35	204	200	261	261	111	120	218	295	68	70	131	160	34	40	63	69
40	204	210	304	281	123	123	222	320	77	72	141	160	38	43	63	91
45	217	215	271	288	127	130	200	340	64	73	108	161	35	44	52	92
50	217	217	303	310	116	135	211	360	68	74	120	161	41	44	59	92
MUDSON RIVER (Cont'd)																
STATION -9								STATION -12								
2	19	19	8	8	45	45	47	50	0	0	3	3	28	28	51	51
4	34	34	82	63	83	83	95	96	4	4	9	11	55	55	103	103
6	49	49	50	80	99	100	137	130	13	18	25	25	78	74	163	140
8	76	64	102	96	121	119	168	155	30	30	52	40	102	96	183	180
11	85	80	98	120	134	134	188	165	51	51	61	81	125	122	250	211
16	102	107	119	153	157	155	184	184	76	76	98	94	136	156	239	239
21	123	123	214	172	187	173	205	205	90	100	115	128	150	178	259	260
26	146	142	217	190	196	189	214	214	95	118	126	155	183	196	279	285
31	157	157	226	200	196	201	246	225	123	123	186	180	294	211	241	300
36	157	170	248	210	190	205	214	235	125	130	175	198	183	225	418	312
41	167	180	270	220	219	220	235	240	146	132	217	210	170	232	322	320
46	169	190	195	222	222	224	202	242	129	136	193	210	183	239	279	330
49	176	193	215	225	209	228	278	242	132	138	185	210	235	240	287	330
MUDSON RIVER (Cont'd)																
STATION -15								EAST RIVER HEAD BAY								
2	1	0	3	3	14	14	0	14	1	0	4	0	0	0	0	0
4	3	3	9	11	35	31	31	31	0	0	4	2	0	0	0	0
6	10	10	14	18	58	41	61	44	1	1	3	3	0	0	0	0
8	14	15	26	26	71	51	63	58	1	1	7	4	0	0	0	0
11	30	29	53	37	81	64	80	78	1	1	4	4	0	0	0	0
18	38	38	62	58	85	84	118	113	1	1	8	4	0	0	0	0
21	55	54	78	78	99	99	144	144	1	1	5	5	0	0	0	0
28	89	70	92	100	113	113	181	171	1	1	5	5	0	0	0	0
31	85	88	120	120	139	128	192	192	1	1	5	5	1	1	1	1
36	102	102	140	142	143	139	199	210	1	1	8	5	1	1	1	1
41	111	120	181	181	150	150	216	220	1	1	5	6	1	1	2	1
46	123	151	178	178	184	160	228	230	2	2	5	6	1	1	2	2
49	134	138	182	190	169	168	244	234	2	2	5	6	2	2	2	2

Table 10 (Concl'd)

Cycle	High Water				Low Water				High Water				Low Water			
	Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley		Owl's Head		Passaic Valley	
	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.	Effl.	Conc.
	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.	Obs.	Cor.
EAST RIVER (Cont'd)																
STATION 3								STATION 9								
2	84	70	9	9	2	3	2	7	13	9	5	8	0	0	2	0
4	93	93	51	52	6	6	5	12	29	35	40	43	0	0	2	3
6	139	108	80	74	13	9	16	17	49	48	66	66	2	1	6	4
8	142	120	91	91	14	11	22	22	52	56	79	77	4	3	12	6
11	130	135	102	109	16	15	28	29	63	64	77	92	5	4	17	7
16	156	156	136	136	22	21	42	40	75	74	118	113	4	5	12	9
21	144	170	155	153	17	27	35	50	77	78	132	129	4	6	11	11
26	153	172	161	161	26	32	44	58	77	81	128	135	4	7	13	13
31	170	176	149	161	42	37	63	64	82	82	136	138	7	8	13	14
36	172	180	139	161	19	40	31	68	82	84	107	140	2	8	9	15
41	156	181	140	162	30	41	45	69	79	75	118	142	8	8	17	16
46	170	181	121	162	29	41	38	70	84	76	100	142	3	9	9	16
49	170	181	132	162	40	41	63	70	84	76	107	142	8	9	15	16
HARLEM RIVER																
STATION 3								STATION 6								
2	0	0	1	0	12	18	15	18	0	0	0	0	16	16	13	20
4	0	0	2	2	18	24	18	24	0	0	1	1	26	28	26	33
6	1	1	4	4	30	30	34	32	0	0	3	3	37	37	45	45
8	2	1	8	8	36	35	54	42	0	0	8	8	45	43	65	54
11	5	5	16	16	41	39	64	54	0	0	14	14	54	54	66	68
16	8	9	23	28	51	37	80	66	0	1	22	22	65	66	87	87
21	13	13	39	38	45	55	67	68	4	4	34	31	74	72	104	98
26	20	16	45	44	50	60	66	70	7	7	41	39	81	74	101	100
31	19	19	47	47	45	62	56	71	10	9	47	46	77	76	101	100
36	21	21	48	48	41	62	45	72	11	11	47	50	74	77	83	100
41	22	23	47	49	45	62	49	72	13	13	49	53	79	78	86	100
46	22	24	46	49	41	62	45	72	12	14	46	54	79	79	79	100
49	24	24	46	49	43	62	38	72	13	14	44	54	79	80	76	100
GOWANUS BAY																
49	415	-	162	-	415	-	177	-								

Table 11

Peak Contamination, Times of Occurrence and Values

(Taken from Station Plots of Concentration Versus Time)

Tallmans Island, Wards Island, Middlesex County, Rahway River, New Yorkers, North River, Jamaica Bay, and Newtown Creek Treatment Plant

Station	Tallmans Island		Wards Island		Middlesex Co.		Rahway River		New Yorkers		North River		Jamaica Bay		Newtown Creek	
	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb
<u>Lower New York Bay</u>																
8A	50H	10	50H	45	50B	28	50H	66	50H	97	50H	280	50H	27	50H	260
9A	40L	9	40L	44	50H	14	50L	112	50L	97	50B	220	50H	17	50B	305
10A	50B	6	50L	30	47B	42	50B	46	50L	87	50L	190	50B	22	50B	200
L2	50H	8	50H	38	50H	17	50B	80					50H	16	50H	280
L7	35H	3	50H	12	22B	435	46B	180					50B	6	50H	215
L10	50H	5	50H	22	45B	300	50B	190	50H	21	50H	94	50H	9	50H	230
L12	35H	6	50H	28	50H	147	50H	72	50B	48	50B	170	50B	11	50B	220
L14	32H	5	50H	27	50H	130	50H	87	50B	60	50B	190	50H	12	50H	225
L17	50B	7	50B	26	43B	56	47B	56	50B	50	50B	170	50B	14	50L	260
L19	25B	5	50B	24	46L	64	50B	13	50B	48	50B	185	50B	9	50B	175
L20	50L	6	50B	24	42L	64	50B	19	50B	44	50B	190	50B	13	50B	200
L21	50B	6	50B	23	45B	54	50B	19	50B	44	50B	190	50B	10	50B	140
L23	50B	6	50B	22	44B	53	50B	19	50B	47	50B	180	50B	15	50B	172
L26	50B	6	50B	21	45H	40	50B	15	50L	57	50L	190	50L	70	50B	110
<u>Jamaica Bay</u>																
J0	20H	7	50H	24	46H	48	50H	34	50B	42	50B	165	50L	460	50L	148
J1	32R	8	50H	25	46H	44	48H	34	50H	50	50H	185	50L	1300	50B	112
J2	10H	7	50H	24	47H	32	49H	27	50H	47	50H	175	50L	1300	50B	82
J3	10H	7	50H	17	50H	22	50H	17	50H	37	50H	127	50L	2150	50H	45
J4													50L	685	50L	130
J5													50L	1420	50H	112
J6													50L	1780	50H	82
J7													50B	1950	50H	78
J8													50L	2450	50H	31
J9													50L	1480	50H	95
J10													50L	2625	50H	70
J11	7H	5	50H	9	50H	11	50B	6	50H	17	50H	90	42L	2900	50H	62
J12													50H	2700	50	0
J13													50H	2100	50	0
J14													50H	2100	50	0
J15													50B	1500	50	0
J16													50L	2225	50H	67
<u>Raritan Channel</u>																
Mile 24													50B	5	50B	180
Mile 25	50	0	50B	11												
Mile 28					12L	350	50L	180								
Mile 30	45H	3	50H	11									50B	12	50H	270
Mile 33					50L	250	50H	84								
Mile 35	50H	9	50B	34									50H	16	50H	350
Mile 37					43B	53	45B	40								
Mile 40	50B	7	50B	27	46B	60	50H	69	50L	58	50L	205	50B	16	50H	280
<u>Raritan Bay</u>																
1					19H	580	50B	400								
2					13L	325	45B	415								
3					13B	380	50B	380								
4					13B	240	50B	216								
5					15B	350	50L	150								
6					10H	450	50L	375								
7					13H	670	50B	460								
8					24H	340	50H	460								
9					36H	640	50L	480								
10					27H	680	50H	1800								
11					10L	660	50L	420								
12					17L	380	50L	230								
13					30B	68	50B	80								
14					11L	300	50L	170								
15					8L	440	50L	370								

(Continued)

Note: "H" denotes that the peak concentration occurred at high-water slack. "L" denotes that the peak occurred at low-water slack, while "B" denotes both high-water and low-water slack.
Time is expressed in tidal cycles after start of release of dye. Locations of outfalls and sampling stations shown in plates 1, 2, and 3.

Table 11 (Continued)

Station	Tallmans Island		Wards Island		Middlesex Co.		Railway River		New Yonkers		North River		Jamaica Bay		Newtown Creek	
	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb
<u>Raritan Bay (Continued)</u>																
16					25L	1160	50B	380								
17					20H	680	50B	300								
18					32H	480	50H	900								
19					25L	580	50L	78								
20					30L	460	50B	70								
21					18L	23	50H	85								
22					50B	19	50B	64								
23					30L	300	50L	120								
<u>Raritan River</u>																
Mile 19					45H	210	50H	125								
Mile 21					20H	220	43H	83								
Mile 23					18B	220	39H	258								
<u>Fresh Kill</u>																
1					44H	150	50B	21,700								
<u>Crossover Channel</u>																
47					37H	51	50L	28								
<u>Arthur Kill</u>																
Mile 5					50H	27	50H	8,000								
Mile 6	40B	8	50B	39	50H	110	50H	27,000	50L	78	50B	170	50L	4	50L	330
Mile 7					50H	145	50H	31,500								
Mile 8					50H	160	50H	32,000								
Mile 9	22L	3	46L	18	50H	160	50H	24,000	50L	64	50L	170	50L	3	50L	300
Mile 10					50H	180	50H	26,000								
Mile 11					38H	200	50L	26,000								
Mile 12	50	0	50B	9	50H	200	50L	26,000	50L	15	50L	44	50H	5	50L	200
Mile 13					45H	215	50L	27,000								
Mile 14					45H	240	50L	27,700								
Mile 15	50	0	50B	10	33H	265	50L	24,000	50H	13	50H	88	50H	8	50H	220
Mile 16					50H	1600	50L	22,000								
Mile 17					50H	1550	50L	16,500								
Mile 18	50	0	50B	12	50H	1750	50L	3,100	50H	13	50H	66	50H	7	50B	200
Mile 19					50H	580	50H	630								
Mile 20					50B	1330	50L	1,500								
<u>Kill Van Kull</u>																
Mile 3	23H	11	50H	29	50H	3	50H	75	50H	115	46H	360	50	0	40H	380
Mile 4					50L	12	50L	665								
<u>Newark Bay</u>																
Mile 1					50B	11	50L	620								
Mile 2	37H	8	40H	15	50H	12	50L	560	50H	105	50H	350	45H	5	50H	380
Mile 4	32H	6	50H	13	50H	13	50H	700	50H	80	50H	275	45H	5	50H	355
<u>Hackensack River</u>																
Mile 3	30H	7	50H	31	50H	12	50H	700	50H	62	50H	270	50B	37	50H	300
Mile 6	34H	6	45H	20	50H	8	50H	430	50H	48	50H	185	50	0	50H	240
Mile 10	40H	4	50H	9	50H	3	50H	170	50H	14	50H	82	50	0	50H	113
Mile 15	20H	2	50H	3	50H	2	50H	48	50H	2	50H	15	50	0	50H	43
<u>Passaic River</u>																
Mile 3	40H	5	50H	23	50H	7	50H	440	50H	35	50H	110	50H	24	50H	230
Mile 6	10H	3	50H	11	39H	3	50H	150	50H	15	50H	49	45B	7	50H	130
Mile 10	10B	2	50H	4	40B	2	50H	39	50H	4	50H	14	50	0	50H	40
Mile 15	50	0	15B	2	50	0	50H	6	50	0	50	0	50	0	0	0
<u>Upper New York Bay</u>																
5	32L	12	35L	57	45H	7	50H	100	50L	126	50L	410	50H	16	50B	385
11	30H	11	40H	59	50L	15	50L	570	50H	125	50H	420	42H	5	45H	430
13	34L	11	50L	58	50H	16	50H	82	50L	130	50L	395	50H	25	50L	290
13A	27L	12	37L	60	45H	16	50H	93	50L	127	50L	400	50H	24	40L	270
13B	28L	11	43L	55	45H	15	50H	90	50L	120	50L	385	50H	26	50L	245
14A	40L	17	35B	61	50H	5	50H	16	50H	150	50H	500	22H	3	50H	350
15A	30H	10	33H	61	50H	3	37H	27	50L	260	50L	1660	50H	3	50H	355
16	36H	12	35H	57	50H	8	50H	58	50L	225	50L	700	50H	8	43H	400
17	44L	19	38L	77	45H	6	50H	37	50H	138	50H	480	50H	5	43H	380
18	31B	10	36L	60	50H	11	50H	100	50L	145	50L	460	50H	20	50L	360

(Continued)

(Sheet 2 of 3 sheets)

Table 12

Peak Contamination, Times of Occurrence and Values
(Taken from Station Plots of Concentration Versus Time)
Owl's Head and Passaic Valley Treatment Plants

Station	Owl's Head Treatment Plant								Passaic Valley Treatment Plant							
	4,500 cfs FWD Time	ppb	12,000 cfs FWD Time	ppb	24,000 cfs FWD Time	ppb	With Dikes Time	ppb	4,500 cfs FWD Time	ppb	12,000 cfs FWD Time	ppb	24,000 cfs FWD Time	ppb	With Dikes Time	ppb
<u>Lower New York Bay</u>																
8A	50H	250	40B	300	50H	400	40L	440	50H	260	50B	263	50H	230	50H	300
9A	50B	210			50L	170			50B	400			50L	415		
10A	50L	190			50L	220			50L	200			50L	210		
L2	50B	165			50B	70			50L	265			50L	88		
L7	50H	120	50H	74	50H	43	50H	50	50B	170	50H	130	50H	52	50H	57
L10	50H	130	50H	76	40H	95	50H	115	50H	220	50H	120	35H	160	50H	100
L12	50B	115	50L	125	50B	140	50B	130	50B	210	50L	175	50B	152	50B	130
L14	50B	135	50B	150	50H	155	50H	130	50B	215	50H	240	50H	195	50B	117
L17	50B	130	50B	180	50B	160	50B	152	50B	200	50B	240	50H	210	50L	152
L19	50H	125	50B	175	50B	160	50B	100	50H	205	50H	230	50L	245	50H	230
L20	50L	140	50B	180	50B	165	50B	105	50H	160	50B	220	50L	240	50H	260
L21	50B	100	50B	170	50B	160	50L	100	50H	140	50L	210	50L	220	50L	240
L23	50L	82	50B	165	50B	160	50B	98	50H	140	50B	205	50L	220	50H	250
L26	50B	94			50L	180			50H	152			50L	220		
1			50L	215			50H	140			50B	290			50H	260
2			50L	200			50H	152			50H	280			50H	250
3			50L	190			50H	150			50H	290			43H	240
4			50L	210			50B	150			50H	270			50B	260
5			50H	215			50B	153			50H	270			50B	280
6			50H	200			50B	150			50H	270			50B	263
7			50H	205			50H	164			50H	260			50L	260
8			50H	190			50H	145			50H	253			50H	230
9			50H	180			50H	160			50H	280			50H	260
10			50H	170			50H	150			50H	270			50H	230
11			50H	190			50H	145			50H	270			50H	260
12			50H	180			50H	148			50H	270			50H	260
13			50H	210			50H	150			50H	280			50H	330
14			50H	205			50H	165			50H	275			50H	380
15			50B	190			50H	165			50H	270			50L	290
16			50L	205			50H	178			50H	290			50L	310
17			50L	220			40H	152			45H	265			50H	300
18			50H	210			50H	165			40L	320			43H	305
19			50B	200			50H	153			45L	345			50H	324
20			50H	225			50H	155			45L	375			50B	340
21			50H	225			50H	165			40L	360			50H	330
22			50H	200			50L	147			38L	410			50L	260
23			50L	205			50L	153			40L	450			35L	255
24			50H	230			50L	180			43H	300			50L	335
25			50H	240			50L	160			50H	300			50L	325
26			40H	220			50B	148			45H	270			50L	340
27			50H	235			50B	160			37H	280			50B	333
28			50H	225			50B	160			41H	302			50B	340
29			50B	220			50B	180			50H	310			50L	180
30			50B	210			50H	190			50H	300			50L	250
31			50H	210			50B	162			40H	260			50L	212
32			50B	202			50L	190			50H	310			50L	200
33			50H	200			50H	172			43H	295			50L	220
34			50L	237			50B	150			50L	245			50B	215
35			50L	210			50B	158			50L	210			50B	212
36			50L	195			50B	158			50L	220			50H	235
37			50H	195			50L	164			50H	220			50B	220
38			50H	210			50B	174			50H	210			50H	250
39			50H	200			50H	168			50H	200			50L	220
40			50H	185			50H	155			50L	198			50L	220
41			50H	225			50H	144			50H	260			50L	202

(Continued)

Note: "H" denotes that the peak concentration occurred at high-water slack. "L" denotes that the peak occurred at low-water slack, while "B" denotes both high-water and low-water slack. "FWD" denotes freshwater discharge. Time is expressed in tidal cycles after start of release of dye. Locations of outfalls and sampling stations shown in plates 1, 2, and 3.

Table 12 (Continued)

Station	Owl's Head Treatment Plant								Passaic Valley Treatment Plant							
	4500 cfs FWD		12,000 cfs FWD		24,000 cfs FWD		With Dikes		4500 cfs FWD		12,000 cfs FWD		24,000 cfs FWD		With Dikes	
	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb
<u>Lower New York Bay (Continued)</u>																
42			50H	207			50H	158			50H	225			50B	195
43			50H	190			50H	158			50H	205			50B	200
44			50H	220			50H	170			50H	255			50H	223
45			50H	205			50H	168			50H	210			50L	222
46			50H	195			50H	160			50B	195			50H	250
47			50H	190			50H	160			50B	200			50H	245
48			50L	200			50L	168			50L	210			50H	225
49			50L	205			50B	160			50L	210			50H	215
50			50L	200			50L	160			50L	220			50B	205
51			50L	250			50B	155			50L	250			50B	198
52			45L	305			50H	150			45L	260			50H	220
53			50L	255			50H	168			50L	270			50H	227
54			43L	215			50L	170			45L	230			50B	220
55			43L	192			50L	165			50H	175			50L	205
56			50L	205			50H	160			50L	210			50L	260
57			50B	155			50B	165			50B	180			50L	275
58			50H	180			50H	170			50H	210			50B	193
<u>Jamaica Bay</u>																
J0	50L	105			50B	170			50B	82			50H	195		
J1	50H	115	50H	185	50H	180	50H	102	50H	110	50H	200	50H	210	50H	222
J2	50H	108			50H	170			50H	90			50H	190		
J3	50H	76			50H	150			50H	66			50H	160		
J11	50B	54			50B	100			50B	50			50B	92		
<u>Raritan Channel</u>																
Mile 24	50B	62			50L	70			50B	82			50H	100		
Mile 25			50B	90			50H	54			50B	150			50L	84
Mile 30	50H	145	50H	180	50H	140	50H	142	50H	180	50L	240	50H	200	50H	200
Mile 35	50H	175	50H	225	50H	180	50H	175	50H	250	50H	255	50B	155	50L	250
Mile 40	50L	170	50L	190	50L	180	50L	172	50L	225	50L	260	50B	205	50L	265
<u>Arthur Kill</u>																
Mile 6	50L	132			50L	115			50L	330			40L	250		
Mile 9	50L	100			50L	90			50L	285			50L	210		
Mile 12	50B	50			50L	52			50L	122			50L	110		
Mile 15	50H	69			50L	84			50B	88			50B	130		
Mile 18	50B	70			50B	64			50B	105			50B	94		
<u>Kill Van Kull</u>																
Mile 3	50H	170	50H	185	50H	140	38H	170	50H	285	50L	240	50L	285	50H	460
<u>Newark Bay</u>																
Mile 2	50H	143			50H	140			50H	310			50H	280		
Mile 4	50H	130			50H	120			50H	310			50H	270		
<u>Hackensack River</u>																
Mile 3	50H	110			50H	93			50H	250			45H	230		
Mile 6	50H	86			50H	78			50H	210			50H	210		
Mile 10	50H	38			50H	38			50H	105			50H	100		
Mile 15	50H	9			50H	11			50H	27			50H	39		
<u>Passaic River</u>																
Mile 3	50H	84			50H	80			50H	220			45H	220		
Mile 6	50H	35			50H	46			50H	102			46H	130		
Mile 10	50H	9			50H	18			50H	33			50H	64		
Mile 15	50H	3				0			50H	6			50H	9		
<u>Upper New York Bay</u>																
5	40H	200	25H	200	50H	190	38H	200	50B	350	20L	210	50B	320	40L	380
11	35H	170	42H	190	50H	175	50H	180	50L	370	35B	250	50L	370	50L	400
13	40B	210	45B	230	50B	165	50L	220	50H	320	38H	245	50H	250	40B	240
13A	35L	180	50H	215	50B	185	50B	180	50H	320	50L	240	50H	240	50B	270
13B	40L	330	40L	315	50B	210	43L	350	50H	320	40H	315	50H	210	50H	260

(Continued)

(Sheet 2 of 3 sheets)

Table 12 (Concluded)

Station	Owl's Head Treatment Plant								Passaic Valley Treatment Plant							
	4,500 cfs FWD		12,000 cfs FWD		24,000 cfs FWD		With Dikes		4,500 cfs FWD		12,000 cfs FWD		24,000 cfs FWD		With Dikes	
	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb	Time	ppb
<u>Upper New York Bay (Continued)</u>																
14A	15L	195	40H	250	50H	210	50H	232	50H	150	50H	165	45H	92	25H	190
15A	50H	180	50H	150	50H	120	45H	185	50H	240	40H	205	50H	120	38H	330
16	50H	240	40H	250	50H	260	50H	210	50H	230	50H	215	50B	110	40H	320
17	50H	320	35H	320	40H	270	50H	255	50H	240	50H	250	45H	110	30H	220
18	50B	200	50H	230	50H	200	43H	200	50H	385	40H	215	45H	330	43H	360
19	50H	620	50H	840	50H	390	40H	660	50H	245	50H	240	50H	125	50H	240
20	50H	280	50H	270	50H	200	50H	220	50H	380	43H	350	50H	300	45H	400
22	50H	220	45H	285	50H	200	50H	220	50H	310	38H	190	45H	230	50L	360
<u>Hudson River Channel</u>																
Mile -15	50L	100	50L	180	50L	200	50L	170	50H	125	50L	250	50L	135	50L	235
Mile -12	50L	225	50L	360	50L	230	50L	240	50L	250	50L	300	50L	260	50L	330
Mile -9	50L	250	50L	280	50L	220	50L	230	50L	460	50L	340	50L	180	45H	280
Mile 2	50H	150			50H	76			50H	280			50H	80		
Mile 3																
Mile 4	50H	105			50H	52			50H	190			50H	54		
Mile 5																
Mile 6	50H	96			50H	56			50H	110			50H	74		
Mile 7																
Mile 8	50H	87	50H	82	50H	47	50H	74	50H	76	42H	90	50H	58	33H	160
Mile 9																
Mile 10	50H	72			50H	34			50H	65			50H	54		
Mile 11																
Mile 12	50H	66			50H	29			50H	76			50H	44		
Mile 13																
Mile 14	50H	54			50H	24			50H	96			50H	27		
Mile 15																
Mile 16	50H	40			50H	16			50H	80			50H	19		
Mile 17																
Mile 18	50H	26			50H	9			50H	58			50H	9		
Mile 19																
Mile 20	50H	20			30H	4			50H	44			30H	5		
Mile 21																
Mile 22																
Mile 23																
Mile 24	50H	17			50	0			50H	29			50	0		
Mile 26																
Mile 28	50H	13			50	0			50H	20			50	0		
Mile 32	50H	7			50	0			50H	12			50	0		
<u>East River Channel</u>																
Mile 3	50H	170	36H	190	50H	190	35H	180	50H	145	36H	77	50H	42	26H	160
Mile 5	50H	160			50H	163			50H	140			50H	47		
Mile 7	50H	150			50H	120			50H	73			25H	33		
Mile 9	50H	68	42H	84	50H	74	45H	86	50H	58	40H	55	40H	49	37H	142
Mile 11	50H	33			45H	28			50H	56			46H	26		
Mile 13	50H	6			35H	4			50H	13			35H	6		
Mile 15	50	0			50	0			50	0			50	0		
Mile 17	50	0							50	0						
Mile 20	50	0							50	0						
Mile 20B																
Mile 20C																
Headbay	50	0	50B	3			50	0	50	0	50H	4		40H	6	
<u>Rikers Island Channel</u>																
12	50H	26			45H	15			50H	42			45H	10		
12A																
13	50H	8			40H	6			50H	11			50	0		
<u>Flushing Bay</u>																
15	50H	7			25H	5			50B	8			30L	4		
<u>Harlem River Channel</u>																
Mile 3	50H	29	50H	30	25L	31	30L	62	50H	50	50H	30	25L	31	30L	72
Mile 6	50L	54	38L	56	25L	51	45L	80	50L	78	38L	36	25L	51	22L	100

Table 13
 Plant Effluent Concentrations at High- and
 Low-Water Slack in Parts per Billion
 (Taken from Station Curves)

Date	Cycle 2		Cycle 3		Cycle 7		Cycle 10		Cycle 13		Cycle 20		Cycle 30		Cycle 30	
	W/S	L/S	W/S	L/S	W/S	L/S	W/S	L/S	W/S	L/S	W/S	L/S	W/S	L/S	W/S	L/S
TALMANS ISLAND																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	20	10	20	10	30	20	30	20	40	40	50	50	50	50
-15	30	30	40	40	50	50	50	50	50	50	60	60	60	60	60	60
-12	30	10	40	20	40	30	50	40	50	60	60	70	60	60	60	90
-7	30	40	40	50	50	50	60	70	70	80	80	90	90	100	100	110
-4	30	30	40	40	50	50	60	60	70	80	80	100	100	100	100	100
-2.5	40	10	50	20	50	30	60	40	70	80	80	90	90	100	100	100
-0.5	10	0	30	10	50	20	60	30	80	40	100	50	110	60	120	60
0.5	10	0	30	0	40	0	60	10	70	20	80	30	100	40	100	50
3	40	0	50	0	60	0	70	0	80	0	90	10	100	20	110	20
5	40	0	40	0	50	0	60	0	80	0	90	0	90	0	100	0
9	40	0	50	0	60	0	70	0	80	0	90	0	100	0	110	0
17	20	0	30	0	40	0	50	0	70	0	80	0	100	0	100	0
18	0	0	0	0	0	0	10	0	20	0	30	0	40	0	40	0
18	0	0	0	0	0	0	10	0	20	0	20	0	20	0	30	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAST RIVER - LONG ISLAND SOUND																
1.25	0	0	30	0	40	0	60	0	70	0	90	0	100	0	100	0
3	10	60	120	60	150	80	180	60	200	100	220	110	230	220	130	220
5	0	90	0	130	10	160	30	180	40	190	60	190	70	190	70	190
7	40	60	70	140	110	180	110	230	130	250	130	290	130	250	130	250
9	70	80	100	120	120	160	130	210	140	230	150	230	150	230	150	230
11	80	80	110	120	140	160	150	190	160	200	160	200	160	200	160	200
13	130	60	150	80	170	90	190	90	200	100	200	100	200	100	200	100
17	180	60	190	70	190	70	190	70	200	70	200	80	200	80	200	80
20	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
22	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
KILL VAN KULL - ARTHUR KILL																
0.5	10	10	50	30	40	50	60	60	70	60	80	100	100	110	100	120
1.25	30	10	40	20	50	30	60	40	60	60	80	70	100	80	110	90
3	0	10	10	10	10	20	70	40	90	60	100	70	110	80	110	80
6	0	0	0	0	0	0	0	10	30	30	40	40	70	70	80	80
9	0	0	0	0	0	0	0	10	0	20	0	30	0	30	0	30
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WARDS ISLAND																
-19	0	0	10	10	20	20	30	30	60	60	100	100	160	160	240	240
-15	0	0	0	0	0	0	0	0	10	20	20	40	40	70	100	120
-12	0	0	0	10	0	40	0	60	0	100	10	220	50	280	110	260
-7	40	30	70	110	90	190	130	260	190	380	250	480	350	540	450	580
-4	50	70	100	140	160	210	230	300	320	410	390	480	470	580	490	600
-2.5	50	70	90	120	140	180	210	280	300	390	370	470	450	560	480	590
-0.5	90	80	160	200	240	210	310	280	410	360	470	420	540	490	570	520
0.5	100	10	170	100	240	150	320	220	420	290	490	350	580	410	600	450
3	30	10	60	20	80	40	130	70	180	100	210	130	250	150	270	160
6	30	0	60	0	90	20	130	40	170	60	200	90	230	120	250	140
9	0	0	10	0	50	0	90	0	130	20	160	50	190	80	200	100
12	0	0	10	0	50	0	90	0	130	0	140	10	170	20	180	50
15	0	0	0	0	10	0	30	0	60	0	90	0	120	0	160	20
18	0	0	0	0	0	0	10	0	30	0	60	0	90	0	120	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAST RIVER - LONG ISLAND SOUND																
1.25	120	120	190	190	260	260	350	350	450	450	520	520	600	600	600	600
3	160	210	240	320	310	410	400	490	500	580	580	580	680	600	700	600
5	190	290	290	330	310	380	370	430	450	470	500	490	550	600	680	500
7	80	90	270	140	340	190	420	240	520	300	590	350	690	410	690	430
9	300	190	400	240	470	280	560	330	670	390	770	430	840	490	890	500
11	140	10	190	30	220	40	250	60	280	70	290	70	300	70	310	70
13	520	10	600	20	650	30	680	40	680	50	680	50	680	60	690	60
17	50	0	60	10	70	20	70	20	80	20	90	30	90	30	90	30
20	10	0	20	0	20	0	20	10	20	10	20	20	20	20	20	20
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0.5	70	70	110	130	150	200	220	290	310	400	390	470	480	550	520	570
1.25	80	50	140	90	200	140	290	210	400	290	480	340	560	400	590	430
3	0	0	80	10	110	40	150	80	190	150	230	160	270	190	290	210
6	0	0	20	0	40	0	60	60	110	110	160	160	260	260	390	390
9	0	0	0	0	10	10	20	20	30	40	50	70	110	120	180	180
12	0	0	0	0	0	0	0	10	10	20	20	30	30	30	90	90
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120
21	0	0	0	0	0	0	0	0	0	0	10	10	40	40	110	110
MIDDLESEX COUNTY																
LOWER NEW YORK BAY - RARITAN BAY - RARITAN RIVER																
47	0	0	0	0	0	0	0	0	0	0	0	0	31	45	94	64
40	0	0	0	0	0	0	0	0	1	1	10	34	34	60	80	80
37	0	0	0	0	0	0	0	0	4	4	23	23	38	38	52	52
33	0	10	0	17	0	15	0	29	0	5	50	10	85	19	253	253
28	3	78	21	180	39	280	50	328	58	350	54	355	54	350	52	350
26	45	45	94	94	150	150	212	212	235	235	239	239	240	240	245	245
23	7	0	19	0	42	22	90	90	191	191	220	220	220	220	215	215
21	1	0	9	0	25	4	83	18	153	75	215	118	220	129	215	129
19	0	0	8	0	33	0	77	25	121	35	154	47	189	60	209	66
KILL VAN KULL - ARTHUR KILL																
0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	11	0
0.5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
1.25	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	13	0	20	2	25	3	31	5	40	6	49	8	69	11	111	19
7	24	0	33	4	39	5	46	9	59	12	71	14	85	19	143	28
8	18	0	24	7	27	8	40	12	51	15	65	18	117	25	159	36
9	17	7	24	12	30	15	40	18	51	23	65	27	117	36	159	49
10	12	12	20	17	31	21	52	25	68	31	123	37	155	49	179	68
11	7	12	18	20	31	27	64	37	112	50	145	62	184	87	202	135
12	8	19	15	28	31	31	67	40	110	59	133	61	199	107	200	129
13	7	19	20	25	41	31	82	41	127	59	152	61	199	107	217	127
14	20	11	44	17	80	28	116	41	190	71	174	90	209	117	238	139

Table 13 (Cont'd)

Miles	Cycle 3		Cycle 5		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 50		
	MFS	LFS	MFS	LFS	MFS	LFS	MFS	LFS	MFS	LFS	MFS	LFS	MFS	LFS	MFS	LFS	
MIDDLESEX COUNTY																	
KILL VAN KULL - ARTHUR KILL (Cont'd)																	
15	25	8	70	17	113	32	150	61	196	108	230	141	260	170	260	175	
16	30	1	80	6	146	14	234	38	355	104	485	158	780	218	1610	269	
17	43	3	100	11	164	26	250	80	370	131	490	180	780	260	1550	400	
18	78	3	150	20	215	45	290	97	400	189	509	248	810	360	1700	560	
19	17	17	51	51	75	75	120	100	105	130	273	150	400	178	580	182	
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																	
-19	0	0	0	0	0	0	0	0	0	0	2	8	31	45	54	64	
-15	0	0	0	0	0	0	0	0	0	0	3	0	18	0	37	28	
-12	0	0	0	0	0	0	0	0	0	0	0	0	18	5	35	17	
-9	0	0	0	0	0	0	0	0	0	0	0	0	15	2	39	8	
-7	0	0	0	0	0	0	0	0	0	1	2	0	7	1	16	6	
-4	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	11	4
-2.5	0	0	0	0	0	0	0	0	0	0	1	0	4	1	12	2	
-0.5	0	0	0	0	0	0	0	0	0	0	0	0	2	1	8	2	
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RAHWAY RIVER																	
-19	0	0	0	0	0	0	0	0	0	0	2	2	10	10	19	19	
-15	0	0	0	0	0	0	0	0	1	0	2	0	7	1	27	10	
-12	0	0	0	0	0	1	0	3	0	8	1	24	6	30	24	69	
-9	0	0	0	0	1	8	2	13	4	23	6	33	20	51	66	70	
-7	0	0	1	1	8	4	17	11	27	20	35	26	51	37	82	56	
-4	0	0	2	0	15	4	25	8	36	12	47	17	68	28	101	52	
-2.5	1	0	10	0	31	0	32	1	45	6	57	6	72	12	87	15	
-0.5	0	0	3	0	8	0	9	0	13	0	16	2	28	8	58	6	
0.5	0	0	0	0	0	0	3	1	14	2	19	3	25	6	27	9	
3	0	0	0	0	0	0	0	0	0	0	1	0	2	0	5	0	
6	0	0	0	0	0	0	0	0	0	0	1	0	2	0	5	0	
9	0	0	0	0	0	0	0	0	1	0	1	0	3	0	5	0	
12	0	0	0	0	0	0	0	0	1	0	1	0	3	0	5	0	
15	0	0	0	0	0	0	0	0	1	0	1	0	3	0	5	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	
EAST RIVER - LONG ISLAND SOUND																	
0	0	-	1	-	4	-	6	-	14	-	26	-	38	-	46	-	
1.25	0	0	0	0	0	0	1	0	6	2	9	3	12	4	15	3	
3	0	0	0	0	0	0	0	0	5	2	7	3	10	4	13	5	
5	0	0	0	0	0	0	0	0	5	1	7	2	10	2	12	2	
7	0	0	0	0	0	0	0	0	4	1	7	2	10	2	12	2	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KILL VAN KULL - ARTHUR KILL																	
0	0	-	4	-	21	-	33	-	42	-	68	-	75	-	100	-	
0.5	0	0	8	8	23	12	38	16	50	22	63	28	81	37	99	49	
1.25	0	0	7	25	17	90	32	117	39	143	44	178	57	265	91	570	
3	0	0	2	2	5	2	16	16	30	30	40	40	56	56	75	75	
4	0	0	1	1	25	44	33	180	38	265	44	308	56	395	89	660	
5	100	10	205	40	330	94	600	180	1250	305	2030	445	3640	863	8000	2350	
6	1950	90	3240	190	4450	257	6100	355	8500	540	11,000	770	16,000	1400	17,000	3800	
7	4300	250	5800	395	7000	500	8800	670	10,200	970	13,900	1350	19,200	2280	31,500	5300	
8	2450	210	3900	640	5700	1270	7800	2030	10,500	3000	13,400	4000	19,200	6300	32,000	12,500	
9	2900	1300	3450	2200	4000	2850	4850	3700	6500	5100	7300	6800	12,500	10,800	24,200	21,500	
10	1950	1180	3100	1450	4000	1700	5200	2100	7200	2900	9300	3700	14,500	6800	26,200	12,000	
11	800	4540	1310	5800	2050	6500	3000	7700	4300	9700	5700	11,900	8800	16,500	18,100	25,900	
12	330	4800	750	5600	1400	8400	2300	7600	3500	10,000	4800	12,100	8000	16,500	17,300	26,000	
13	170	2600	500	3250	300	3850	1570	4850	2500	6600	3550	6500	6100	13,300	14,100	27,000	
14	84	2600	200	3250	450	3900	1000	4800	1830	6400	2690	7500	4700	13,500	11,100	27,900	
15	15	1830	26	2350	42	2850	81	3550	108	4950	370	6700	920	11,400	23,300	23,900	
16	0	350	17	860	29	1600	56	2700	150	4160	295	5600	755	9600	2100	31,700	
17	5	115	11	320	22	670	44	1490	97	2610	162	3850	260	6800	630	17,000	
18	5	48	12	112	24	225	47	415	100	670	266	820	330	1500	845	3,100	
19	5	3	12	6	23	12	44	22	98	50	165	87	323	190	630	415	
20	5	25	14	64	24	120	45	215	97	350	167	475	325	760	650	1500	
KILL VAN KULL - NEWARK BAY - HACKENBACK RIVER																	
0	0	0	8	8	21	12	33	16	42	22	68	28	75	37	100	49	
0.5	0	0	7	25	17	90	32	117	39	143	44	178	57	265	91	570	
1.25	0	0	2	2	5	2	16	16	30	30	40	40	56	56	75	75	
3	0	0	1	1	25	44	33	180	38	265	44	308	56	395	89	660	
4	0	0	1	1	25	44	33	180	38	265	44	308	56	395	89	660	
5	100	10	205	40	330	94	600	180	1250	305	2030	445	3640	863	8000	2350	
6	1950	90	3240	190	4450	257	6100	355	8500	540	11,000	770	16,000	1400	17,000	3800	
7	4300	250	5800	395	7000	500	8800	670	10,200	970	13,900	1350	19,200	2280	31,500	5300	
8	2450	210	3900	640	5700	1270	7800	2030	10,500	3000	13,400	4000	19,200	6300	32,000	12,500	
9	2900	1300	3450	2200	4000	2850	4850	3700	6500	5100	7300	6800	12,500	10,800	24,200	21,500	
10	1950	1180	3100	1450	4000	1700	5200	2100	7200	2900	9300	3700	14,500	6800	26,200	12,000	
11	800	4540	1310	5800	2050	6500	3000	7700	4300	9700	5700	11,900	8800	16,500	18,100	25,900	
12	330	4800	750	5600	1400	8400	2300	7600	3500	10,000	4800	12,100	8000	16,500	17,300	26,000	
13	170	2600	500	3250	300	3850	1570	4850	2500	6600	3550	6500	6100	13,300	14,100	27,000	
14	84	2600	200	3250	450	3900	1000	4800	1830	6400	2690	7500	4700	13,500	11,100	27,900	
15	15	1															

Table 13 (Cont'd)

Miles	Cycle 3		Cycle 5		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 50	
	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS
NEW YORKERS																
LOWER BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	1	1	2	2	3	3	5	5	8	8	20	20	45	45
-15	0	0	1	1	1	1	2	2	3	4	4	6	7	11	17	24
-12	0	0	1	1	4	4	7	7	13	4	4	6	7	11	17	24
-9	1	1	2	3	3	6	4	15	8	35	8	35	9	50	16	72
-7	1	2	3	6	7	11	16	23	32	45	43	61	61	86	87	131
-4	1	1	2	6	5	19	10	39	25	61	39	76	60	103	104	148
-2.5	1	2	3	7	6	16	12	32	24	59	36	86	83	148	104	170
0	14	13	22	20	33	30	51	47	82	85	115	91	160	125	223	223
2	18	18	43	33	71	52	109	74	141	92	173	128	231	195	345	345
3	24	18	55	32	87	55	131	87	173	107	206	145	260	205	365	365
4	21	40	43	76	87	120	94	164	125	215	247	255	333	315	359	395
5	26	44	50	85	72	126	95	172	126	222	146	263	191	325	259	385
6	24	62	45	109	64	145	83	180	107	225	129	263	172	333	259	430
7	21	70	42	125	64	170	84	211	113	254	138	293	186	365	280	480
8	26	110	54	170	78	207	100	250	130	305	155	350	204	430	287	512
9	17	160	38	215	70	255	112	300	155	360	181	405	216	480	250	532
10	22	190	35	232	46	280	66	300	100	360	129	405	174	487	232	590
11	18	185	40	230	65	270	101	315	140	385	170	459	225	555	311	750
12	30	190	65	185	93	219	126	260	160	312	180	260	240	380	450	560
13	47	145	81	200	115	235	150	265	191	320	225	365	288	445	375	520
14	70	100	110	153	150	190	183	230	225	275	285	315	328	380	420	480
15	130	130	170	170	205	205	241	241	293	293	335	335	410	410	500	500
16	83	81	140	123	175	160	215	193	285	237	305	275	378	340	470	423
17	83	47	141	90	210	125	240	160	295	195	345	225	423	278	340	340
18	98	27	160	60	192	88	234	123	289	161	335	195	420	247	530	325
19	115	24	170	55	215	86	260	116	320	155	368	185	445	246	555	300
20	80	10	176	38	180	67	205	96	255	133	300	160	365	205	450	205
21	111	9	155	35	185	47	220	78	269	113	315	139	380	182	475	240
22	100	7	170	19	215	35	265	63	320	94	355	115	405	180	440	200
23	76	6	125	10	159	20	197	43	236	77	270	96	318	125	360	158
24	46	3	131	11	180	21	225	35	265	82	287	85	315	112	329	130
26	30	-	60	-	94	-	125	-	157	-	185	-	235	-	300	-
28	11	-	26	-	42	-	65	-	85	-	104	-	140	-	210	-
30	0	-	7	-	13	-	22	-	38	-	53	-	87	-	132	-
32	0	-	3	-	7	-	12	-	21	-	30	-	48	-	68	-
34	0	-	0	-	0	-	6	-	11	-	16	-	28	-	48	-
38	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
EAST RIVER - LONG ISLAND SOUND																
0	2	-	9	-	15	-	30	-	51	-	70	-	87	-	132	-
1.25	4	3	10	6	19	9	38	13	61	19	77	24	105	35	150	80
3	3	0	9	1	19	3	35	3	55	5	70	7	97	12	140	23
5	3	0	12	1	22	2	35	3	56	3	71	4	95	4	134	3
7	3	0	13	0	25	0	43	0	61	1	75	1	97	3	130	1
9	4	0	9	0	15	0	25	0	42	1	58	1	80	1	110	1
11	1	0	5	0	9	0	16	0	26	0	34	0	47	1	72	2
13	0	0	0	0	0	0	1	0	3	0	4	0	6	0	8	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0	2	-	5	-	11	-	25	-	39	-	81	-	101	-	101	-
0.5	2	2	4	4	7	8	13	15	31	37	49	57	72	63	111	127
1.25	2	1	5	2	9	5	18	11	40	28	59	42	84	62	125	100
6	0	0	2	2	2	3	5	6	11	10	20	20	39	48	78	78
9	0	0	0	0	0	0	0	0	0	0	7	0	14	0	29	7
12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWARK BAY - HACKINSACK RIVER																
0	3	-	1	-	3	-	5	-	11	-	16	-	30	-	61	-
2	3	0	0	0	6	0	13	1	23	5	34	10	60	23	105	65
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	79
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH RIVER																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	1	1	3	3	5	5	12	12	27	27	48	48	95	95	180	180
-15	1	1	2	5	3	10	6	17	12	30	21	45	47	77	96	135
-12	1	1	5	8	7	21	10	46	16	76	24	99	48	148	157	255
-9	10	10	24	14	44	19	78	99	115	39	141	67	181	155	240	240
-7	13	47	29	87	51	120	82	150	110	190	132	227	180	290	260	390
-4	17	42	36	89	60	140	91	196	125	250	155	295	212	365	320	460
-2.5	25	50	33	90	52	122	78	175	122	240	186	345	239	420	305	530
0	100	150	119	211	135	250	215	400	300	780	395	950	600	1300	1700	1970
2	74	225	130	370	167	475	215	600	300	830	390	1150	580	1680	2300	2600
3	100	140	165	215	217	530	268	830	350	1150	580	1360	680	1830	2500	2900
4	170	385	250	680	310	940	385	1190	510	1450	640	1820	940	1890	1660	2100
5	211	405	260	680	305	890	370	1100	490	1350	620	1590	920	1960	1700	2465
6	170	430	295	710	385	930	510	1130	650	1390	790	1580	1050	1890	1570	2210
7	178	410	315	710	470	910	650	1100	830	1350	980	1550	1180	1850	1520	2110
8	300	375	500	660	700	910	870	1120	1060	1360	1240	1550	1490	1810	1770	2090
9	170	230	300	400	480	610	730	910	1010	1200	1190	1390	1430	1480	1670	1900
10	220	220	328	325	385	365	490	490	560	660	620	620	620	620	620	620
11	220	220	310	310	375	375	460	460	600	600	750	750	1090	1090	1500	1500
12	210	80	285	123	335	148	410	179	530	225	660	270	950	360	1620	539
13	300	50	465	100	580	150	710	205	895	265	1070	315	1410	400	2050	510
14	370	42	800	80	770	123	845	141	1160	180	1350	217	1620	289	2000	410
15	285	30	385	58	465	88	620	118								

Table 13 (Cont'd)

Miles	Cycle 3		Cycle 5		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 40	
	HPS	LPS	HPS	LPS	HPS	LPS	HPS	LPS	HPS	LPS	HPS	LPS	HPS	LPS	HPS	LPS
MOHON RIVER																
EAST RIVER - LONG ISLAND SOUND																
0	75	-	127	-	155	-	190	-	247	-	305	-	480	-	520	-
1.25	73	31	125	30	168	81	201	73	250	81	280	109	370	141	805	185
5	79	17	110	20	131	23	152	26	181	33	207	39	245	52	287	76
7	109	11	145	13	169	14	190	16	213	20	225	23	243	29	281	38
9	115	7	150	8	169	9	186	10	205	12	218	13	230	16	260	30
11	50	0	89	0	118	0	148	1	185	2	217	3	268	4	330	5
13	24	0	48	0	72	0	92	0	110	0	125	0	145	0	181	0
15	2	0	4	0	6	0	8	0	14	0	18	0	27	0	36	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0	17	-	35	-	58	-	90	-	125	-	168	-	215	-	305	-
0.5	15	20	37	47	65	81	103	127	145	171	180	210	244	280	360	408
1.25	24	16	52	36	83	61	121	94	161	127	200	159	278	221	415	340
5	8	8	14	14	20	20	29	29	48	48	65	65	105	105	171	171
8	0	0	0	0	0	0	0	17	2	44	4	67	12	111	61	170
12	0	0	0	0	0	0	0	3	0	8	0	9	6	16	33	44
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	23
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	27
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWARK BAY - HACKENSACK RIVER																
0	12	-	20	-	29	-	44	-	61	-	85	-	131	-	250	-
2	0	0	0	0	57	2	87	23	118	35	146	60	210	120	355	145
4	1	0	7	0	18	2	37	3	71	18	109	40	180	91	275	200
5	0	0	3	0	6	0	16	8	45	12	80	23	150	49	270	108
6	0	0	0	0	0	0	3	0	12	0	34	3	87	18	188	74
10	0	0	0	0	0	0	0	0	0	5	0	19	8	81	38	
15	0	0	0	0	0	0	0	0	2	0	0	0	2	0	15	6
JAMAICA BAY																
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
0	0	-	0	-	0	-	0	-	2	-	5	-	11	-	29	-
2	0	0	0	8	0	22	0	52	0	101	3	159	7	275	21	465
3.4	0	0	12	0	40	0	90	2	185	3	280	8	485	20	670	20
4.6	0	0	26	4	45	21	107	65	230	93	365	140	680	221	1300	1300
7.0	1	20	8	59	19	111	47	210	93	375	140	560	235	900	340	1300
8.5	3	48	12	130	27	240	70	415	181	600	270	750	410	1010	655	1490
10.2	24	490	42	800	87	990	195	1160	350	1430	425	1860	820	2070	1000	2650
11.7	42	900	106	1220	210	1490	380	1750	580	2030	710	2300	980	2840	1380	2900
13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.7	275	275	550	480	800	620	1080	800	1380	1030	1850	1240	2100	1680	2700	2400
16.2	0	0	52	18	150	53	335	163	630	400	940	650	1500	1150	2100	1780
17.0	0	0	8	8	24	24	64	64	171	171	340	340	760	760	1400	1400
BEACH CHANNEL																
0	0	-	1	-	3	-	10	-	58	-	127	-	193	-	300	-
0.3	0	0	30	0	79	10	200	20	370	28	500	45	770	85	1430	1430
1.6	0	0	37	21	85	54	243	120	425	185	580	320	930	500	1770	1770
3.0	0	0	13	120	45	300	109	550	230	830	350	1040	600	1430	910	2150
4.8	1	1	35	35	91	81	220	220	455	455	700	700	1210	1210	1950	1950
6.5	0	0	52	18	150	53	335	163	630	400	940	650	1500	1150	2100	1780
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	0	0	0	0	0	0	0	0	2	2	5	5	23	23
-15	0	0	0	0	0	0	0	0	0	0	8	2	13	5	29	16
-12	0	0	0	0	0	0	1	0	3	1	5	2	12	5	33	11
-7	0	0	0	0	0	0	0	0	1	0	3	1	10	3	25	10
-4	0	0	0	0	0	0	0	0	1	0	2	1	7	2	20	8
-2.5	0	0	0	0	0	0	1	1	4	1	3	2	4	3	11	4
-0.5	0	0	0	0	0	0	1	0	1	0	2	0	4	1	8	2
0.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	2
1	0	0	1	0	2	1	3	1	2	1	2	1	3	2	4	2
1	0	0	0	1	0	1	0	2	1	2	1	3	2	4	2	2
5	0	0	0	0	0	0	1	0	2	0	2	0	2	0	3	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWTOWN CREEK																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	0	0	1	1	9	30	30	63	53	105	105	199	199	
-15	1	1	3	29	8	48	12	86	29	89	47	110	90	150	169	
-12	85	5	91	9	111	16	135	29	180	45	182	85	225	165	275	
-9	6	80	13	131	20	171	30	205	50	239	71	280	120	290	305	
-7	24	70	38	108	47	128	59	145	77	171	95	197	135	237	225	
-4	42	127	77	189	110	181	135	209	166	241	192	270	240	314	310	
-2.5	125	111	140	140	185	160	214	183	250	216	284	247	338	295	390	
-0.5	161	44	192	90	217	129	246	170	280	196	315	218	365	247	400	
2	87	87	126	128	147	147	168	168	191	191	218	218	250	250	273	
4	47	37	85	54	116	83	140	110	168	135	190	151	225	180	260	
8	43	31	83	56	118	79	150	97	175	118	200	135	239	161	274	
10	62	19	99	39	128	59	143	78	168	87	186	111	216	139	230	
12	38	12	54	25	75	40	99	56	118	69	131	79	153	85	178	
14	33	4	81	13	85	22	105	33	129	44	148	52	180	87	220	
16	39	1	82	11	78	20	92	29	111	38	128	46	154	59	181	
18	18	1	33	5	48	12	81	24	75	37	85	45	101	57	115	
20	9	0	17	0	24	0	34	0	50	0	59	0	72	17	61	
24	3	0	7	0	14	0	24	0	36	0	45	0	59	20	80	
28	1	0	5	0	8	0	12	0	19	0	28	0	40	0	55	
32	0	0	2	0	4	0	8	0	13	0	19	0	31	0	49	
EAST RIVER - LONG ISLAND SOUND																
0	152															

Table 13 (Cont'd)

Miles	Cycle 3		Cycle 5		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 50	
	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS	NWS	LWS
OWI'S HEAD - LOW FRESH WATER INFLOW (Cont'd)																
HEWARK BAY - HACKENSACK RIVER																
0	3	11	~	19	~	36	~	47	~	53	~	71	~	107	~	~
2	21	0	40	1	54	4	74	11	85	25	109	40	120	68	142	105
4	3	0	16	0	25	1	37	5	58	14	76	25	108	47	125	76
3	0	0	3	0	7	0	15	0	30	4	45	8	75	18	110	45
6	0	0	0	0	1	0	3	0	14	1	24	3	45	8	86	22
10	0	0	0	0	0	0	0	0	1	0	4	0	13	3	37	8
15	0	0	0	0	0	0	0	0	0	0	0	0	2	0	9	1
LOWER BAY - HAHITAH BAY																
47	0	0	3	3	8	8	14	14	28	28	42	44	89	73	95	140
40	0	0	3	3	8	8	22	24	50	63	68	67	121	145	170	~
35	25	3	49	4	65	6	81	20	99	51	114	77	141	110	174	160
30	0	0	0	0	2	0	7	1	19	6	39	15	69	42	145	104
24	0	0	0	0	0	0	0	0	0	0	4	4	20	20	61	61
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
0	1	~	4	~	7	~	15	~	24	~	34	~	52	~	74	~
3.4	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
4.6	3	0	9	2	16	8	25	14	42	25	59	36	88	59	116	87
7.0	5	0	11	0	15	8	23	9	36	17	50	28	76	45	108	75
8.5	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
10.2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
11.7	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
13.5	0	0	1	1	2	2	5	5	8	8	12	12	22	22	54	54
14.7	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
16.2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
17.0	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
PASSAIC VALLEY - LOW FRESH WATER INFLOW																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	2	0	6	0	13	1	28	7	51	28	67	47	97	70	157	112
-15	0	1	0	10	0	20	7	31	25	37	42	44	86	59	154	106
-12	8	41	24	31	29	118	32	148	39	161	48	171	64	132	158	350
-9	8	255	17	295	28	328	38	355	54	370	68	380	91	405	160	460
-7	110	56	145	72	165	83	188	85	216	114	230	129	255	159	320	240
-4	165	52	200	92	219	130	228	185	240	180	260	190	295	215	385	275
-2.5	149	37	195	59	225	73	240	69	255	110	270	128	302	153	385	200
-0.5	85	22	116	41	135	56	145	69	160	77	180	86	181	109	230	170
2	73	8	114	18	140	35	165	63	175	83	189	91	217	108	285	150
4	19	2	40	8	65	17	99	36	119	58	127	63	145	75	189	110
6	16	0	27	0	35	3	44	7	55	17	62	23	73	32	111	45
8	7	0	17	0	27	0	37	8	47	8	52	14	59	19	76	33
10	6	0	13	0	21	0	30	0	41	8	45	9	51	16	65	24
12	3	0	14	0	21	0	32	0	45	3	55	7	68	13	76	19
14	6	0	12	0	20	0	34	0	49	7	54	13	65	21	95	39
16	3	0	6	0	11	0	19	2	33	5	43	10	52	17	81	31
18	2	0	4	0	8	1	10	2	18	3	22	7	31	13	59	28
20	3	0	4	0	6	1	8	2	13	4	18	7	27	13	44	22
24	0	0	0	0	1	0	2	0	5	0	9	1	15	4	29	14
28	0	0	0	0	0	0	0	0	0	0	0	0	7	0	20	0
32	0	0	0	0	0	0	0	0	0	0	0	0	4	0	12	0
BAIT RIVER - LOW ISLAND SOUND																
0	76	~	111	~	132	~	145	~	150	~	160	~	178	~	280	~
1.25	20	5	56	7	80	8	97	8	111	10	119	11	128	14	151	22
3	28	5	47	8	62	7	75	8	88	10	97	13	113	16	145	30
7	25	2	38	3	48	3	59	4	72	5	84	5	106	7	141	10
9	8	0	18	0	25	0	35	0	43	0	49	0	60	0	73	0
9	3	0	9	0	15	0	20	0	28	0	32	0	41	0	57	0
11	5	0	10	0	14	0	17	0	21	0	26	0	38	0	56	0
13	0	0	0	0	0	0	0	0	1	0	2	0	3	0	10	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILL VAN KULL - ARTHUR HILL																
0	165	~	200	~	219	~	228	~	240	~	260	~	285	~	385	~
0.5	139	139	161	161	180	180	203	203	237	237	265	265	305	305	345	345
1.25	138	121	161	160	178	180	197	207	215	240	227	270	248	307	280	380
3	110	110	139	139	150	150	189	170	170	182	182	211	211	262	262	282
8	11	24	24	52	37	80	51	108	67	140	82	170	111	227	169	328
9	0	8	~	23	~	47	~	88	~	131	~	13	180	27	210	74
12	0	0	0	0	0	2	0	7	0	28	3	45	21	72	75	133
15	0	0	0	0	0	0	0	0	0	3	3	10	10	37	37	87
18	0	0	0	0	0	0	0	0	0	0	0	0	6	33	33	104
21	0	0	0	0	0	0	0	0	0	0	0	0	5	28	28	82
HEWARK BAY - HACKENSACK RIVER																
0	37	~	65	~	74	~	62	~	95	~	115	~	140	~	295	~
2	105	3	149	9	111	20	197	45	218	67	228	126	261	190	310	156
4	28	0	63	4	97	11	134	30	170	59	200	86	235	135	310	205
3	0	0	15	0	32	0	55	3	93	12	130	22	185	45	260	90
8	0	0	2	0	10	0	26	0	51	8	79	15	134	33	211	79
10	0	0	0	0	0	0	0	0	8	0	17	0	40	~	106	8
15	0	0	0	0	0	0	0	0	0	0	0	0	0	2	27	8
LOWER BAY - HAHITAH BAY																
47	2	0	8	0	13	1	28	7	51	28	67	47	97	70	157	112
40	0	0	5	5	17	18	44	53	86	111	110	140	151	180	219	225
38	32	32	56	56	72	79	88	97	108	122	125	145	165	183	199	245
30	0	0	2	2	8	5	12	12	30	30	53	53	106	106	180	180
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	82
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
0	0	~	0	~	0	~	8	~	26	~	48	~	72	~	128	~
2	1	1	2	2	4	4	8	8	20	20	32	32	57	57	81	81
3.4	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
4.6	1	0	4	0	10	2	19	3	34	15	50	25	79	45	110	66
7.0	0	0	7	0	11	0	17	3	28	9	40	18	62	35	90	63
13.5	0	0	0	0	0	0	1	1	3	3	5	5	15	15	100	100
OWI'S HEAD - HIGH FRESH WATER INFLOW																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-19	3	3	9	9	18	18	38	38	66	66	86	86	116	116	164	164
-15	8	38	17	65												

Table 13 (Cont'd)

Date	Cycle 3		Cycle 3		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 50	
	HS	LFS	HS	LFS	HS	LFS	HS	LFS	HS	LFS	HS	LFS	HS	LFS	HS	LFS
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER (Cont'd)																
OWL'S HEAD - HIGH FRESH WATER INFLOW (Cont'd)																
0	93	1	110	11	121	19	140	28	163	33	182	38	219	45	257	52
-0.5	9	5	19	13	28	21	38	28	48	35	55	40	66	48	77	56
4	1	1	10	8	18	15	24	21	31	27	36	31	44	36	52	40
6	14	2	20	4	24	9	28	14	33	17	38	20	46	24	37	27
8	0	0	8	0	15	1	21	8	26	11	31	13	38	16	47	19
10	0	0	8	0	10	0	14	0	18	3	22	5	27	7	35	8
12	0	0	1	1	3	3	7	4	13	6	16	7	21	8	29	8
14	0	0	2	0	8	1	11	3	15	5	18	5	21	6	24	7
16	0	0	0	0	4	0	8	1	10	2	12	2	14	3	16	3
18	0	0	0	0	3	0	5	0	8	0	7	0	8	0	9	0
EAST RIVER - LONG ISLAND SOUND																
0	87	—	100	—	115	—	135	—	152	—	169	—	188	—	210	—
1.25	97	14	110	18	120	20	135	21	153	27	170	30	190	35	211	41
3	115	3	130	4	140	4	145	5	149	6	152	6	165	8	186	8
5	105	1	120	2	125	2	129	3	131	3	137	3	144	4	163	4
7	54	0	72	0	84	0	90	0	93	0	96	0	104	0	121	0
9	7	0	21	0	31	0	40	0	48	0	54	0	65	0	75	0
11	3	0	8	0	11	0	15	0	18	0	22	0	26	0	28	0
13	1	0	2	0	2	0	2	0	3	0	3	0	3	0	4	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0	55	—	81	—	97	—	113	—	135	—	150	—	168	—	200	—
0.5	57	25	91	53	109	78	123	94	138	109	145	112	158	121	187	145
1.25	58	29	71	45	81	55	93	167	110	77	125	88	148	105	175	127
3	37	4	61	12	81	23	97	46	108	72	110	83	120	94	139	120
5	4	3	8	11	13	21	18	39	24	63	30	75	41	93	62	115
9	0	0	0	0	0	0	20	2	38	3	51	6	57	13	67	45
12	0	0	0	0	0	0	4	0	6	3	9	5	13	15	22	50
15	0	0	0	0	0	0	0	0	4	3	8	4	21	10	33	51
18	0	0	0	0	0	0	0	0	2	2	4	2	8	19	19	64
21	0	0	0	0	0	0	0	0	0	0	4	4	16	22	48	69
NEWARK BAY - HACKENSACK RIVER																
0	10	—	20	—	35	—	42	—	49	—	55	—	65	—	82	—
2	21	2	40	5	56	8	70	17	85	33	97	49	112	74	140	98
4	7	0	18	3	27	3	42	10	65	21	83	35	101	59	130	84
6	0	0	4	0	0	0	17	2	33	4	60	11	73	22	83	51
8	0	0	1	0	0	0	6	0	10	1	10	0	15	15	78	38
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	28
15	0	0	0	0	0	0	0	0	0	0	0	0	2	0	10	8
LOWER BAY - RARITAN BAY																
47	3	3	9	9	18	18	36	36	66	66	86	86	116	116	164	164
40	1	1	3	20	8	37	20	58	53	82	77	100	105	130	150	180
35	18	2	38	9	58	20	77	40	97	60	113	74	140	95	179	121
30	0	0	3	2	9	3	24	8	57	24	73	50	98	62	139	134
24	0	0	0	0	0	0	0	0	0	0	4	4	16	22	48	69
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
0	5	—	—	—	23	—	42	—	68	—	85	—	112	—	150	—
2	14	14	28	28	42	42	55	55	73	73	89	89	118	119	169	169
3.4	15	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4.6	11	2	30	11	47	23	67	44	89	64	106	76	138	101	180	142
7.0	0	0	25	6	41	11	56	23	75	44	90	57	120	81	168	125
13.5	0	0	0	0	3	1	5	8	17	17	29	29	50	50	101	101
PASSAIC VALLEY - HIGH FRESH WATER INFLOW																
LOWER NEW YORK BAY - UPPER BAY - HUDSON RIVER																
-15	1	9	23	—	25	43	52	75	84	113	105	139	142	180	205	240
-15	3	38	8	55	20	65	36	76	52	90	63	101	81	119	106	135
-12	7	85	28	105	46	119	65	135	84	162	100	182	132	219	166	260
-9	7	82	11	97	16	109	22	120	34	135	47	143	70	155	95	185
-7	60	30	83	38	97	44	116	51	138	63	159	73	192	92	240	171
-4	149	80	170	90	189	99	210	110	240	125	265	140	300	159	325	122
-2.5	160	29	205	50	230	66	240	79	250	82	255	84	270	89	300	98
-0.5	35	35	46	46	53	53	62	62	73	73	81	81	95	95	109	109
2	14	3	25	13	35	22	42	30	51	38	58	43	70	51	80	59
4	12	1	19	4	25	4	31	18	37	27	42	33	48	40	54	47
6	20	0	29	0	34	—	39	9	46	120	52	141	63	172	75	208
8	0	0	9	0	24	0	30	3	37	7	43	9	50	11	58	15
10	12	0	20	1	28	3	31	5	38	8	42	10	49	12	54	13
12	0	0	9	6	15	7	20	8	25	10	29	11	36	13	43	16
14	0	0	6	0	10	7	15	5	18	7	21	8	25	10	27	10
16	0	0	0	0	4	0	9	3	12	4	14	5	18	6	19	6
18	0	0	0	0	3	0	4	0	5	3	7	3	8	2	9	3
20	0	0	0	0	0	0	0	0	0	3	1	4	3	5	3	3
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAST RIVER - LONG ISLAND SOUND																
0	25	—	37	—	46	—	55	—	64	—	70	—	81	—	90	—
1.25	32	19	41	22	48	25	55	28	64	33	72	38	83	43	93	48
3	8	0	8	0	14	0	23	0	31	0	36	0	40	0	42	0
5	1	0	11	0	18	0	26	0	32	0	36	0	41	0	46	0
7	0	0	1	1	11	2	21	3	28	3	31	4	33	4	34	4
8	3	0	13	0	22	0	30	0	37	0	41	0	48	0	49	0
11	1	0	4	0	8	0	13	0	17	0	19	0	23	0	26	0
13	2	0	2	0	3	0	4	0	4	0	5	0	6	0	6	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0	149	—	170	—	189	—	210	—	240	—	265	—	300	—	325	—
0.5	145	145	175	175	185	185	195	195	207	207	220	220	250	250	225	225
1.25	105	159	119	179	130	196	147	220	170	253	191	280	230	325	270	365
3	30	37	55	61	67	93	79	130	96	169	110	196	135	238	165	285
6	40	46	55	85	65	119	75	150	90	185	102	209	123	235	149	240
9	0	59	0	83	1	105	4	135	8	165	12	172	17	186	96	212
12	0	1	0	8	0	12	2	22	7	32	14	41	33	61	95	109
15	0	0	0	0	0	0	0	4	4	8	9	15	15	37	130	130
18	0	0	0	0	0	0	0	0	4	4	15	15	38	38	94	94
21	0	0	0	0	0	0	0	0	0	0	7	10	29	45	72	100
NEWARK BAY - HACKENSACK RIVER																
0	34	—	49	—	58	—	68	—	83	—	96	—	116	—	150	—
2	116	8	160	24	189	45	211	75	227	119	239	155	250	189	280	240
4	54	0	96	3	130	16	160	40	180	78	215	110	240	161	270	215

Table 13 (Cont'd)

Miles	Cycle 3		Cycle 6		Cycle 7		Cycle 10		Cycle 13		Cycle 20		Cycle 30		Cycle 50	
	MS	LWS	MS	LWS	MS	LWS	MS	LWS	MS	LWS	MS	LWS	MS	LWS	MS	LWS
PASSAIC VALLEY - HIGH FRESH WATER INFLOW (Cont'd)																
NEWARK BAY - HACKENSACK RIVER (Cont'd)																
3	0	0	1	0	22	0	53	3	101	10	145	19	209	22	230	50
6	0	0	1	0	10	0	24	0	54	2	89	6	180	25	209	70
10	0	0	0	0	0	0	0	0	1	0	0	0	59	3	100	39
15	0	0	0	0	0	0	0	0	0	0	0	0	9	0	29	7
LOWER BAY - RARITAN BAY																
47	1	9	9	23	25	43	29	75	84	113	105	139	142	180	205	240
40	7	7	20	20	37	37	56	56	91	91	114	114	150	150	202	202
38	27	27	53	55	71	71	85	85	102	102	118	118	137	137	155	155
30	0	0	0	0	20	5	48	21	85	60	105	82	140	120	205	180
24	0	0	0	0	0	0	0	0	0	0	7	10	29	45	72	100
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
0	1	-	8	-	19	-	35	-	54	-	65	-	84	-	108	-
2	3	3	9	9	18	18	37	38	63	64	81	70	119	88	195	157
34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.6	9	0	25	3	43	11	67	28	93	54	114	69	150	93	210	130
7.0	7	1	17	3	30	8	62	12	84	31	70	49	115	74	189	120
13.5	0	0	0	0	1	1	3	3	10	10	22	22	45	45	83	93
OWL'S HEAD - NO DIKES INSTALLED																
LOWER BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	2	2	9	9	25	25	55	55	77	77	113	113	179	179
-15	3	19	10	38	20	54	39	72	50	95	63	114	89	142	150	180
-12	3	112	20	190	38	172	59	191	80	218	87	238	120	265	150	300
-9	29	92	41	119	51	140	63	189	81	201	97	230	123	280	171	279
-7	63	98	103	130	131	155	156	184	181	208	190	214	214	230	230	230
-4	60	30	89	61	110	77	130	97	131	120	134	136	139	154	146	160
-2.3	63	19	94	40	116	57	145	73	180	92	208	105	240	120	270	125
-0.5	80	8	110	22	130	35	159	68	191	84	218	75	240	89	280	97
8	11	1	20	3	27	7	36	13	47	19	55	24	86	31	82	39
EAST RIVER - LONG ISLAND SOUND																
0	80	-	108	-	130	-	153	-	190	-	210	-	230	-	245	-
1.25	80	12	106	21	128	27	154	34	187	43	211	50	238	82	249	79
3	40	2	91	5	108	8	125	12	149	18	185	17	182	20	191	20
8	14	0	35	1	43	1	52	2	63	2	71	3	80	3	84	4
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOWER BAY - RARITAN BAY																
47	0	0	2	2	8	8	25	25	55	55	77	77	113	113	179	179
40	1	1	3	15	9	34	25	62	58	69	82	111	120	144	180	191
35	16	2	40	5	66	17	95	37	128	95	150	72	185	104	216	178
30	0	0	1	0	13	0	47	7	75	37	94	60	127	99	180	154
OWL'S HEAD - DIKES INSTALLED																
LOWER BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	0	0	5	5	12	12	26	26	40	40	70	70	103	103
-15	1	24	7	26	13	46	21	60	35	60	51	95	85	125	138	170
-12	1	44	10	64	23	85	45	115	72	150	95	175	123	210	138	240
-9	27	66	41	91	56	110	75	130	104	150	121	170	153	200	197	225
-7	51	52	69	80	81	96	95	114	113	138	129	155	153	187	180	220
-4	60	29	70	52	86	66	100	84	125	110	147	127	160	190	200	168
-2.3	51	21	73	30	87	39	104	54	122	89	139	61	170	101	218	115
-0.5	57	0	90	9	104	23	118	33	130	50	143	64	167	80	210	85
8	0	0	18	1	25	4	34	9	47	16	59	23	67	35	74	44
EAST RIVER - LONG ISLAND SOUND																
0	58	-	90	-	101	-	118	-	129	-	140	-	161	-	209	-
1.25	37	8	46	22	87	56	97	47	142	52	178	54	212	57	231	59
3	88	8	100	8	112	10	129	14	153	20	169	26	176	35	180	41
8	24	0	41	1	52	2	62	3	73	5	77	8	82	8	88	9
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KILL VAN KULL - ARTHUR KILL																
0	48	-	70	-	86	-	100	-	125	-	147	-	160	-	200	-
0.5	46	44	74	87	92	81	114	100	145	121	170	132	190	150	200	160
1.25	82	13	100	27	117	49	135	74	152	103	170	125	169	136	180	141
3	89	1	95	9	111	23	121	39	135	66	146	80	161	117	170	135
LOWER BAY - RARITAN BAY																
47	0	0	0	0	5	5	12	12	26	26	40	40	70	70	103	103
40	0	0	0	10	5	25	14	37	33	67	55	78	99	116	150	171
35	17	0	32	11	45	20	63	33	91	58	111	80	138	115	179	158
30	0	0	1	0	8	1	24	3	43	15	57	28	85	59	143	100
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
4.6	5	0	8	3	11	5	16	5	26	18	37	24	62	42	103	77
PASSAIC VALLEY - NO DIKES INSTALLED																
LOWER BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	4	4	17	17	42	42	74	74	98	98	140	140	220	220
-15	3	7	10	24	20	43	35	68	55	98	73	125	106	169	181	250
-12	4	114	15	150	34	173	82	190	65	215	102	235	138	271	188	360
-9	8	73	18	102	24	128	31	158	40	195	46	230	54	278	99	340
-7	62	33	96	51	120	63	155	91	196	105	215	122	235	138	245	144
-4	112	76	145	100	168	119	183	130	192	131	200	133	210	139	215	148
-2.3	120	63	160	85	185	100	237	120	280	142	310	159	335	170	350	178
-0.5	80	19	110	38	130	57	159	75	191	98	216	110	240	128	250	135
8	24	1	40	3	53	7	87	12	73	19	78	23	85	30	90	35
EAST RIVER - LONG ISLAND SOUND																
0	78	-	108	-	128	-	152	-	184	-	208	-	230	-	240	-
1.25	45	23	63	30	76	37	92	46	113	57	129	86	149	79	164	95
3	7	2	50	4	35	8	50	8	62	8	68	10	75	12	77	12
8	8	0	21	0	33	1	44	1	50	1	52	1	54	2	55	2
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOWER BAY - RARITAN BAY																
47	0	0	4	4	17	17	42	42	74	74	98	98	140	140	220	220
40	1	6	6	25	16	51	38	85	80	119	82	145	120	187	245	282
35	34	4	68	17	59	33	131	61	171	93	200	118	235	159	256	217
30	0	0	7	2	30	4	89	15	129	65	157	105	194	136	230	242
PASSAIC VALLEY - DIKES INSTALLED																
LOWER BAY - UPPER BAY - HUDSON RIVER																
-19	0	0	0	0	24	24	46	43	75	67	104	92	169	149	250	240
-15	8	23	15	38	22	80	33	71	53	105	74	139	118	190	191	323
-12	7	80	17	130	32	169	53	203	84	235	120	260	175	292	210	330
-9	40	78	70	110	88	145	112	165	150	183	183	200	240	225	280	243
-7	80	80	110	110	130	130	150	150	175	175	196	196	225	225	240	240

Table 13 (Concl'd)

Year	Cycle 3		Cycle 5		Cycle 7		Cycle 10		Cycle 15		Cycle 20		Cycle 30		Cycle 50	
	MS	LRS	MS	LRS	MS	LRS	MS	LRS	MS	LRS	MS	LRS	MS	LRS	MS	LRS
LOWER BAY - UPPER BAY - HUDSON RIVER (Cont'd)																
-4	148	148	175	175	190	190	217	217	258	238	292	250	338	275	360	295
-2.5	125	83	179	111	200	139	225	170	289	205	315	230	362	271	400	323
-0.5	57	29	92	63	119	84	149	110	190	139	229	152	290	184	320	240
8	20		48	7	68	16	83	29	108	47	129	64	155	86	181	93
EAST RIVER - LONG ISLAND SOUND																
0	39		84		106		133		172		206		268		298	
1.25	38	17	89	52	95	67	120	79	132	90	178	98	190	106	191	110
3	35	10	85	15	83	19	102	26	130	37	150	48	160	63	160	70
8	24		61		72		86		7	109		125	11	139	14	141
22					3	6	4	0			5	0		0		0
KILL VAN KULL - ARTHUR KILL																
0	148		171		190		217		258		292		338		360	
0.5	125	44	165	120	200	165	233	210	260	274	285	323	320	360	335	380
1.25	141	105	175	140	205	180	245	229	290	300	310	348	325	373	335	395
3	140	35	165	70	185	100	215	140	260	208	305	255	380	325	460	400
LOWER BAY - RARITAN BAY																
47	0	0	0	0	24	24	46	43	75	87	104	92	189	149	260	240
40	0	0	0	10	28	28	21	52	50	77	85	106	145	166	225	265
35	20	0	41	15	55	28	77	50	112	95	140	131	180	205	230	250
30	0	0	0	0	16	5	38	10	58	30	76	60	115	98	201	189
ROCKAWAY INLET - ISLAND CHANNEL - GRASSY BAY																
4.6	7	5	15	10	23	13	36	19	59	30	83	42	140	72	223	139
CONSOLIDATED EDISON																
-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	59
-9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	26	125
-7	0	0	0	0	0	0	0	0	0	0	0	0	18	30	95	169
-4	0	0	0	0	0	0	0	0	0	0	1	1	26	45	114	170
-2.5	0	0	0	0	0	0	0	0	0	0	2	2	27	51	113	247
-0.5	0	0	0	0	0	0	0	0	0	0	1	1	41	94	134	230
0.5	0	0	0	0	0	0	0	0	0	0	5	10	77	157	190	325
4	0	0	0	0	0	0	0	0	0	4	23	39	160	230	300	430
8	0	0	0	0	0	0	0	0	2	22	78	179	365	355	548	690
12	0	0	0	0	0	0	0	0	11	35	48	160	225	520	400	690
14	0	0	0	0	0	0	0	12	27	89	100	220	300	590	475	850
16	0	0	0	0	0	0	1	12	78	109	230	300	490	660	430	680
18	0	0	0	0	0	0	13	60	171	170	415	540	820	670	720	720
20	0	0	0	0	0	0	22	55	185	205	490	640	940	700	710	710
22	0	0	0	0	0	30	63	130	335	305	680	780	1000	690	670	670
24	0	0	0	1	25	24	132	145	530	390	940	830	1250	700	630	630
26	0	0	0	1	80	40	295	219	950	500	1380	840	1220	710	540	540
30	1	19	13	170	42	450	245	1000	520	1890	990	1850	1120	1190	600	420
32	1	1	44	180	140	620	410	1530	1070	2140	1430	1380	1180	1180	510	355
34	5	290	90	1120	285	1950	700	2430	1420	2350	1630	1800	1150	810	450	200
36	90	2350	310	3400	820	3400	1700	3100	2200	2100	1940	1200	980	458	315	89
37	180	3850	900	3800	1850	3550	2600	2900	2650	1750	2000	950	980	880	245	56
38	760	5000	2150	4150	2800	3350	3000	2300	2550	1180	1700	650	650	210	115	30
39	2750	4700	3170	3800	3450	2850	3200	1790	2050	950	1150	440	440	140	93	21
40	3400	4000	3750	2950	3750	2200	3350	1420	2250	730	1180	380	385	117	61	14
41	4200	3350	4000	2200	3600	1500	2900	900	1780	420	970	213	295	640	45	14
42	4400	2270	3950	1550	3400	2060	2500	670	1370	335	720	181	240	60	40	0
43	4400	1400	4050	1110	3400	810	2360	490	1190	229	650	117	215	35	32	0
44	4800	870	3750	600	3000	400	2000	245	1000	121	530	66	171	22	24	4
45	3900	370	2800	340	2050	225	1300	131	670	81	355	30	111	9	15	1
46	3850	129	1950	92	1370	70	820	47	395	26	205	15	63	5	8	0
47	2160	24	1400	21	970	16	580	11	275	7	140	4	43	0	0	0
48	1650	23	1070	20	740	17	455	13	220	115	5	36	3	0	0	0
49	1200	21	830	20	580	17	365	12	180	7	93	9	29	1	0	0
50	630	18	520	13	420	9	305	5	171	5	94	0	26	0	0	0
52	62	0	70	0	56	0	41	0	23	0	12	0	0	0	0	0
54	0	0	0	0	10	0	12	0	0	0	3	0	0	0	0	0

Table 14

Current Velocities, Base Condition

East River (Mile 9.5) and Arthur Kill (Mile 7.2 and 11) Ranges

Time	400 ft E of Center Line			Center Line			400 ft W of Center Line			Totals	
	Surf.	Middepth	Bottom	Surf.	Middepth	Bottom	Surf.	Middepth	Bottom	Ebb	Flood
<u>East River, Mile 9.5</u>											
0.0	-5.0	-3.8	-3.9	-5.1	-5.1	-5.1	-4.5	-4.8	-3.5	40.8	
0.5	-4.8	-3.7	-3.7	-5.3	-4.9	-5.3	-4.5	-4.6	-3.4	40.2	
1.0	-4.0	-3.3	-3.2	-4.1	-4.4	-4.3	-4.0	-4.2	-2.9	34.4	
1.5	-3.8	-3.3	-3.0	-3.6	-4.1	-3.8	-3.9	-3.8	-2.5	31.8	
2.0	-3.2	-2.5	-2.6	-3.4	-3.8	-3.6	-3.3	-3.4	-2.5	28.3	
2.5	-2.6	-2.2	-2.2	-3.1	-2.9	-2.9	-2.6	-2.4	-1.8	22.7	
3.0	-2.2	-1.7	-1.7	-1.8	-2.6	-2.4	-2.0	-2.2	-1.4	18.0	
3.5	-1.0	-0.6	-0.7	-0.6	-0.9	-0.8	-0.6	-0.9	-0.7	6.8	
4.0	-0.2	-0.2	-0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.2	
4.5	1.7	1.5	1.7	0.9	1.3	1.6	1.5	1.7	1.8		13.7
5.0	3.4	3.4	2.7	1.8	2.6	3.3	4.6	4.6	4.3		30.7
5.5	3.9	3.8	3.0	2.9	3.3	4.1	5.0	5.1	5.6		36.7
6.0	4.0	3.9	3.4	2.9	3.3	4.4	5.1	5.4	5.7		38.1
6.5	4.0	3.9	3.3	3.1	3.3	4.4	5.3	5.4	5.6		38.3
7.0	3.8	3.9	3.2	2.8	3.3	4.4	5.5	5.5	5.5		37.9
7.5	3.5	3.2	2.4	2.3	2.8	3.4	4.9	4.7	4.4		31.6
8.0	2.6	2.6	1.8	1.4	1.9	2.6	3.7	3.6	3.9		24.1
8.5	1.9	1.8	1.2	1.1	1.1	1.4	2.8	2.5	2.6		16.4
9.0	1.0	0.5	0.4	0.4	0.4	0.4	1.2	1.1	0.9		6.3
9.5	-0.1	-0.3	-0.5	0.0	-0.4	-1.1	0.0	0.0	0.0	2.4	
10.0	-1.4	-1.7	-2.4	-1.1	-1.9	-2.6	-1.2	-1.8	-1.9	16.0	
10.5	-3.6	-2.6	-2.6	-3.9	-3.6	-3.8	-3.5	-3.4	-3.0	30.0	
11.0	-4.1	-3.3	-3.2	-4.8	-4.3	-3.9	-4.1	-4.2	-3.6	35.5	
11.5	-4.0	-3.3	-3.2	-4.3	-4.3	-4.4	-4.0	-4.2	-3.1	34.8	
12.0	-4.8	-3.8	-3.7	-4.3	-5.1	-5.1	-4.7	-4.5	-3.6	39.6	
										Totals	381.5
											<u>273.8</u>
											<u>381.5</u>
										Total ebb and flood	655.3
										Ebb = 58.2%	flood = 41.8%

(Continued)

Note: Velocities are expressed in feet per second prototype. Negative values are in the ebb direction. Time is expressed in hours after the moon's transit of the 74th meridian. Station locations shown in plate 2.

Table 14 (Continued)

Time	200 ft E of Center Line			Center Line			200 ft W of Center Line			Totals	
	Surf.	Middepth	Bottom	Surf.	Middepth	Bottom	Surf.	Middepth	Bottom	Ebb	Flood
<u>Arthur Kill, Mile 7.2</u>											
0.0	-1.1	-1.1	-0.9	-0.9	-1.3	-1.2	-0.7	-0.8	-0.9	8.9	
0.5	-0.9	-0.8	-0.5	-0.9	-1.1	-0.9	-0.3	-0.5	-0.5	6.4	
1.0	-0.5	-0.5	-0.3	-0.5	-0.7	-0.5	-0.3	-0.3	-0.3	3.9	
1.5	-0.9	-0.4	-0.5	-0.5	-0.7	-0.5	-0.3	-0.5	-0.5	4.8	
2.0	-1.1	-0.3	-0.5	-0.7	-0.7	-0.7	-0.5	-0.5	-0.3	5.3	
2.5	-0.7	-0.3	-0.3	-0.5	-0.7	-0.7	-0.3	-0.5	-0.4	4.4	
3.0	-0.3	0.0	0.0	-0.3	-0.3	0.0	0.0	0.0	0.0	0.9	
3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0		0.3
4.5	0.3	0.3	0.3	0.5	0.3	0.3	0.5	0.4	0.3		3.2
5.0	0.7	0.5	0.3	0.9	0.5	0.3	0.5	0.5	0.5		4.7
5.5	1.2	1.2	0.9	1.2	0.7	0.7	0.7	0.5	0.5		7.6
6.0	1.6	1.7	1.2	1.4	1.3	0.9	0.5	0.9	0.5		10.0
6.5	1.4	1.7	1.1	1.4	1.6	0.9	0.7	1.0	0.5		10.3
7.0	1.1	1.5	0.7	1.1	1.6	0.5	0.5	1.1	0.3		8.4
7.5	0.9	1.3	0.3	0.9	1.2	0.3	0.3	1.1	0.3		6.6
8.0	0.7	1.0	0.3	0.7	0.9	0.3	0.3	1.1	0.3		5.6
8.5	0.7	0.5	0.0	0.7	0.9	0.3	0.3	0.8	0.3		4.5
9.0	0.3	0.3	0.0	0.3	0.7	0.0	0.3	0.3	0.0		2.2
9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10.0	0.0	0.0	-0.3	0.0	0.0	-0.3	0.0	0.0	0.0		0.6
10.5	-0.3	-0.3	-0.3	-0.3	-0.3	-0.5	-0.3	-0.3	-0.3		2.9
11.0	-0.7	-0.6	-0.5	-0.9	-0.7	-0.5	-0.7	-0.5	-0.5		5.6
11.5	-1.1	-1.2	-0.9	-1.3	-1.2	-1.2	-1.3	-0.9	-0.5		9.6
12.0	-1.2	-1.3	-1.1	-1.3	-1.4	-1.2	-1.2	-0.9	-0.7		10.3
										Totals	63.6
											63.4
											63.6
										Total ebb and flood	127.0
										Ebb = 50.1%	flood = 49.9%

(Continued)

(2 of 3 sheets)

Table 14 (Concluded)

<u>Time</u>	<u>300 ft E of Center Line</u>		<u>Center Line</u>		<u>300 ft W of Center Line</u>		<u>Totals</u>	
	<u>Surf.</u>	<u>Bottom</u>	<u>Surf.</u>	<u>Bottom</u>	<u>Surf.</u>	<u>Bottom</u>	<u>Ebb</u>	<u>Flood</u>
<u>Arthur Kill, Mile 11</u>								
0.0	-1.3	-1.4	-1.3	-1.7	-2.2	-2.2	10.1	
0.5	-1.2	-1.2	-1.2	-1.9	-2.1	-2.0	9.6	
1.0	-0.9	-1.0	-1.1	-1.2	-1.6	-1.7	7.5	
1.5	-0.8	-0.9	-1.0	-1.2	-1.1	-1.6	6.6	
2.0	-0.7	-1.0	-0.9	-0.9	-0.9	-1.6	6.0	
2.5	0.0	-0.7	-0.5	-0.5	-0.6	-1.1	3.4	
3.0	0.0	0.0	0.0	0.0	-0.3	-0.3	0.6	
3.5	0.0	0.0	0.0	0.0	0.0	0.0		
4.0	0.9	0.5	0.3	0.0	0.0	0.3		2.3
4.5	1.4	0.7	1.2	1.4	1.6	1.3		7.6
5.0	1.5	1.8	1.6	1.7	1.6	1.7		9.9
5.5	1.7	1.8	1.7	1.7	1.6	1.9		10.4
6.0	1.7	2.1	1.8	1.7	1.9	2.1		11.3
6.5	1.6	1.5	1.9	1.6	1.7	1.6		9.9
7.0	1.4	1.7	1.8	1.5	1.5	1.5		9.4
7.5	1.3	1.9	1.6	1.8	1.2	1.2		9.0
8.0	1.0	0.9	1.4	1.0	0.9	0.9		6.1
8.5	0.6	0.7	0.6	0.6	0.3	0.5		3.3
9.0	0.0	0.0	0.3	0.0	0.0	0.0		0.3
9.5	0.0	0.0	0.0	0.0	0.0	0.0		
10.0	-0.4	-0.5	-0.7	-0.4	-0.5	0.0	2.5	
10.5	-1.2	-1.3	-1.7	-1.1	-1.6	-1.1	8.0	
11.0	-1.3	-1.2	-1.5	-1.4	-1.8	-1.6	8.8	
11.5	-1.3	-1.5	-1.6	-1.6	-2.1	-1.9	10.0	
12.0	-1.4	-1.6	-1.7	-1.9	-2.1	-1.9	10.6	
							Totals	83.7
								79.5
								83.7
							Total ebb and flood	163.2
							Ebb = 51.3%	flood = 48.7%

Table 15

Times of High- and Low-Water Slack

Station	Low-Water Slack			High-Water Slack		
	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff* hr:min	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff* hr:min
Head Bay:						
L-21	90	2:30	-1:52	284	7:53	-1:56
L-20	90	2:30	-1:52	284	7:53	-1:56
L-19	90	2:30	-1:52	284	7:53	-1:56
Lower Bay:						
L-17	60	1:40	-2:42	333	9:15	-0:34
L-14	60	1:40	-2:42	216	6:00	-3:49
L-12	60	1:40	-2:42	216	6:00	-3:49
L-23	90	2:30	-1:52	284	7:53	-1:56
L-26	63	1:45	-2:37	306	8:30	-1:19
L-2	141	3:55	-0:27	312	8:40	-1:09
L-10	60	1:40	-2:42	216	6:00	-3:49
8A	138	3:50	-0:32	308	8:34	-1:15
-9	135	3:45	-0:37	340	9:27	-0:22
9A	131	3:38	-0:44	336	9:20	-0:29
10A	63	1:45	-2:37	306	8:30	-1:19
L-7	63	1:45	-2:37	273	7:35	-2:14
47	60	1:40	-2:42	216	6:00	-3:49
Raritan Bay:						
1	106	2:57	-1:25	317	8:49	-1:00
2	102	2:50	-1:32	313	8:42	-1:07
3	104	2:53	-1:29	315	8:45	-1:04
4	105	2:55	-1:27	316	8:47	-1:02
5	97	2:42	-1:40	308	8:34	-1:15
6	99	2:45	-1:37	310	8:37	-1:12
7	98	2:43	-1:39	309	8:35	-1:14
8	95	2:38	-1:44	304	8:27	-1:22
9	90	2:30	-1:52	299	8:19	-1:30
10	92	2:34	-1:48	301	8:22	-1:27
11	92	2:34	-1:48	301	8:22	-1:27
12	91	2:32	-1:50	301	8:22	-1:27
13	78	2:10	-2:12	283	7:52	-1:57
14	82	2:17	-2:05	292	8:07	-1:42
15	82	2:17	-2:05	292	8:07	-1:42
16	82	2:17	-2:05	292	8:07	-1:42
17	82	2:17	-2:05	292	8:07	-1:42
18	78	2:10	-2:12	283	7:52	-1:57
19	72	2:00	-2:22	277	7:42	-2:07
20	72	2:00	-2:22	277	7:42	-2:07
21	72	2:00	-2:22	277	7:42	-2:07
22	64	1:47	-2:35	273	7:35	-2:14
23	64	1:47	-2:35	273	7:35	-2:14
Raritan Channel:						
28	96	2:40	-1:42	288	8:00	-1:49
33	64	1:47	-1:35	273	7:35	-2:14
37	86	2:23	-1:59	281	7:49	-2:00
40	83	2:19	-2:03	277	7:42	-2:07

(Continued)

* Referred to time of slacks at the Narrows.

(1 of 3 sheets)

Table 15 (Continued)

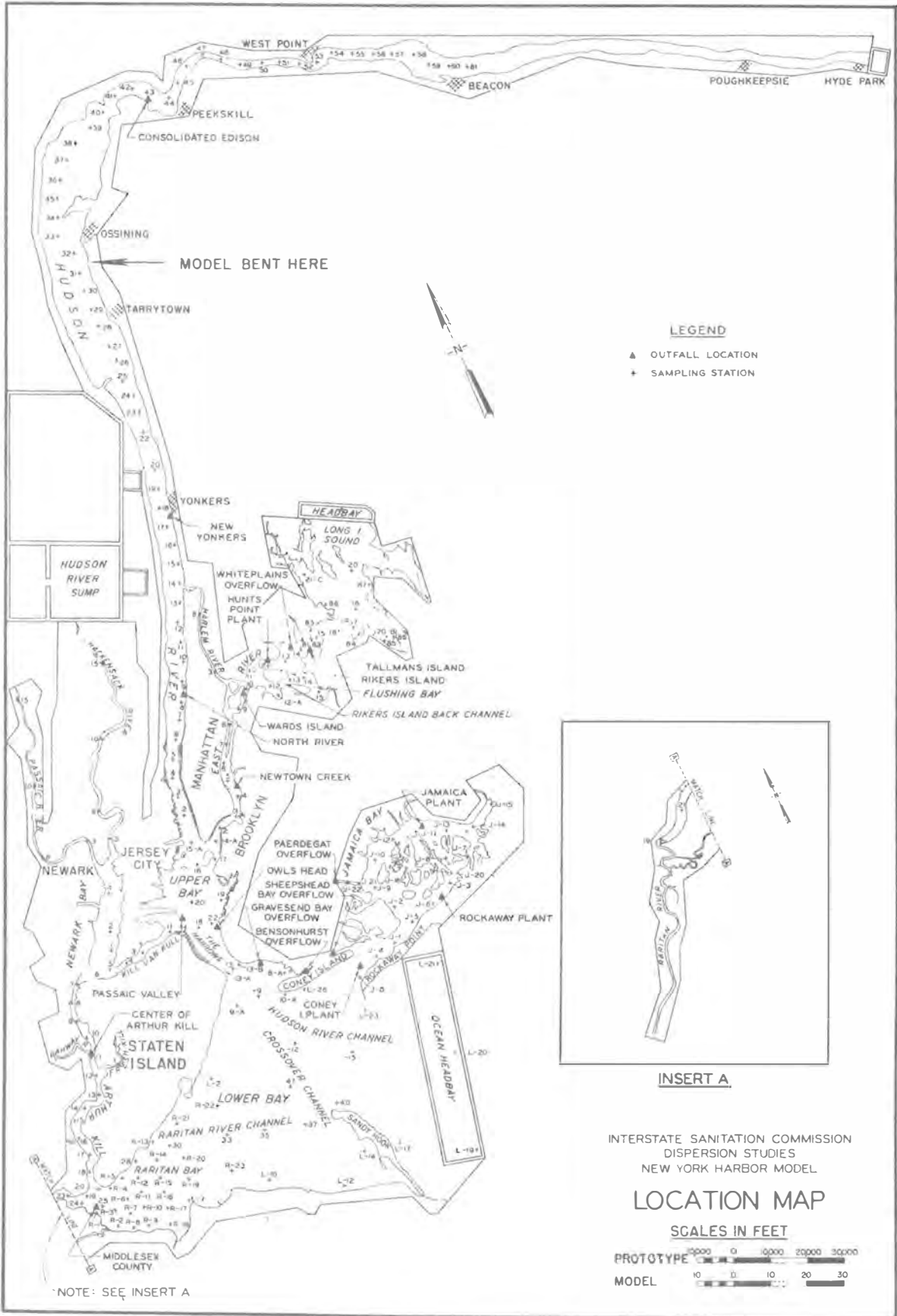
Station	Low-Water Slack			High-Water Slack		
	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff hr:min	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff hr:min
Raritan River:						
19	109	3:02	-1:20	320	8:53	-0:56
21	108	3:00	-1:22	319	8:52	-0:57
23	107	2:58	-1:24	318	8:50	-0:59
Arthur Kill:						
4	86	2:23	-1:59	306	8:30	-1:19
5	108	3:00	-1:22	309	8:35	-1:14
6	133	3:42	-0:40	342	9:30	-0:19
7	130	3:37	-0:45	340	9:27	-0:22
8	128	3:34	-0:48	339	9:25	-0:24
9	125	3:28	-0:54	336	9:20	-0:29
10	122	3:23	-0:59	332	9:13	-0:36
11	118	3:17	-1:05	328	9:07	-0:42
12	113	3:08	-1:14	324	9:00	-0:49
13	108	3:00	-1:22	320	8:53	-0:56
14	104	2:53	-1:29	319	8:52	-0:57
15	99	2:45	-1:37	316	8:47	-1:02
16	96	2:40	-1:42	311	8:38	-1:11
17	94	2:37	-1:45	307	8:32	-1:17
18	90	2:30	-1:52	301	8:22	-1:27
19	69	1:55	-2:27	282	7:50	-1:59
20	82	2:17	-2:05	288	8:00	-1:49
Fresh Kill:						
1	72	2:00	-2:22	288	8:00	-1:49
Newark Bay:						
1	99	2:45	-1:37	299	8:19	-1:30
2	104	2:53	-1:29	311	8:38	-1:11
4	86	2:23	-1:59	309	8:35	-1:14
Passaic River:						
3	110	3:04	-1:18	328	9:07	-0:42
6	133	3:42	-0:40	332	9:13	-0:36
10	139	3:52	-0:30	340	9:27	-0:22
15	146	4:04	-0:18	344	9:34	-0:15
Hackensack River:						
3	110	3:04	-1:18	328	9:07	-0:42
6	133	3:42	-0:40	332	9:13	-0:36
10	139	3:52	-0:30	340	9:27	-0:22
15	146	4:04	-0:18	344	9:34	-0:15
Jamaica Bay:						
J-0	63	1:45	-2:37	290	8:04	-1:45
J-1	66	1:50	-2:32	294	8:10	-1:39
J-2	74	2:04	-2:18	300	8:20	-1:29
J-3	70	1:56	-2:26	297	8:15	-1:34
11	77	2:08	-2:14	303	8:25	-1:24

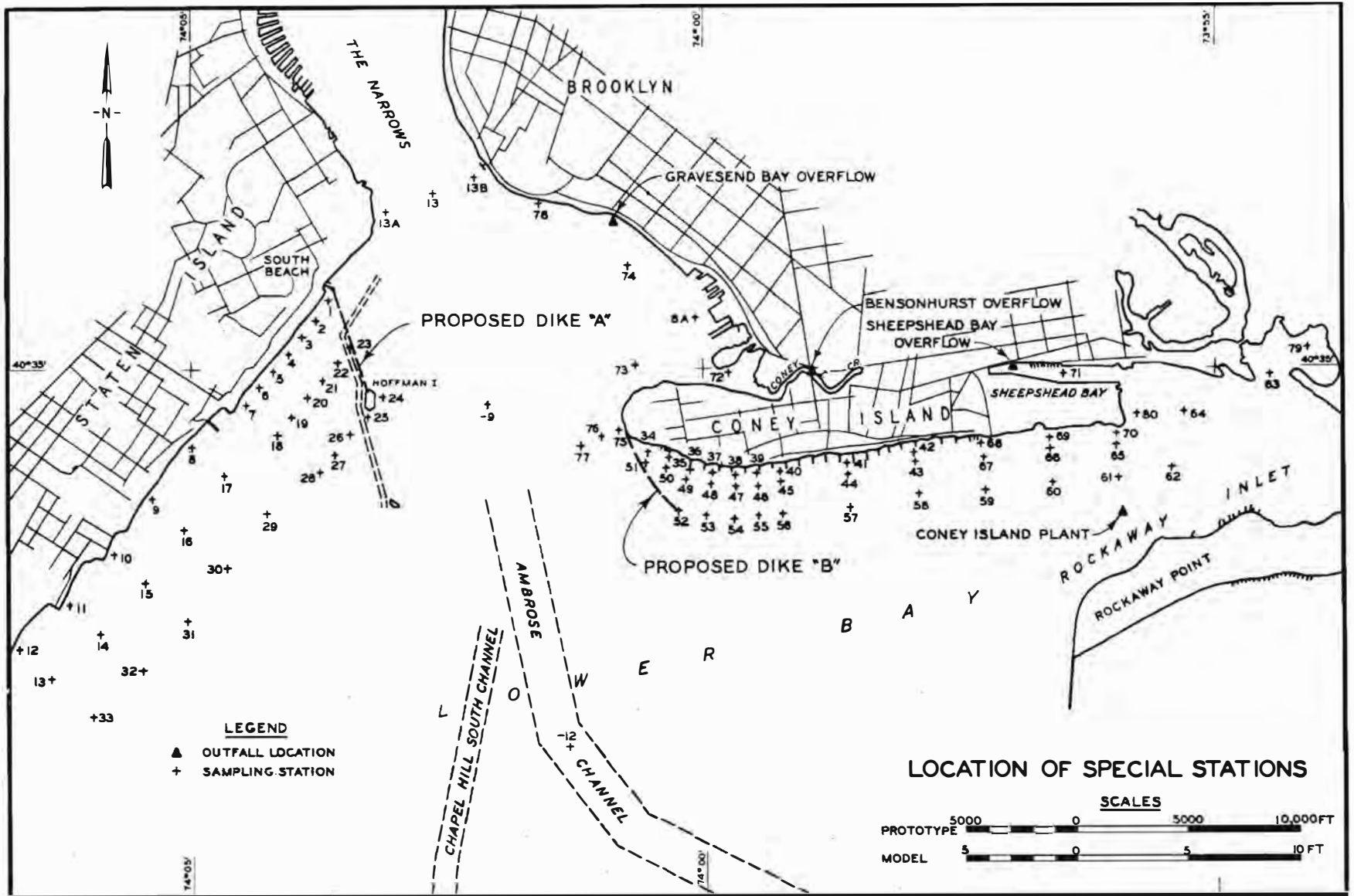
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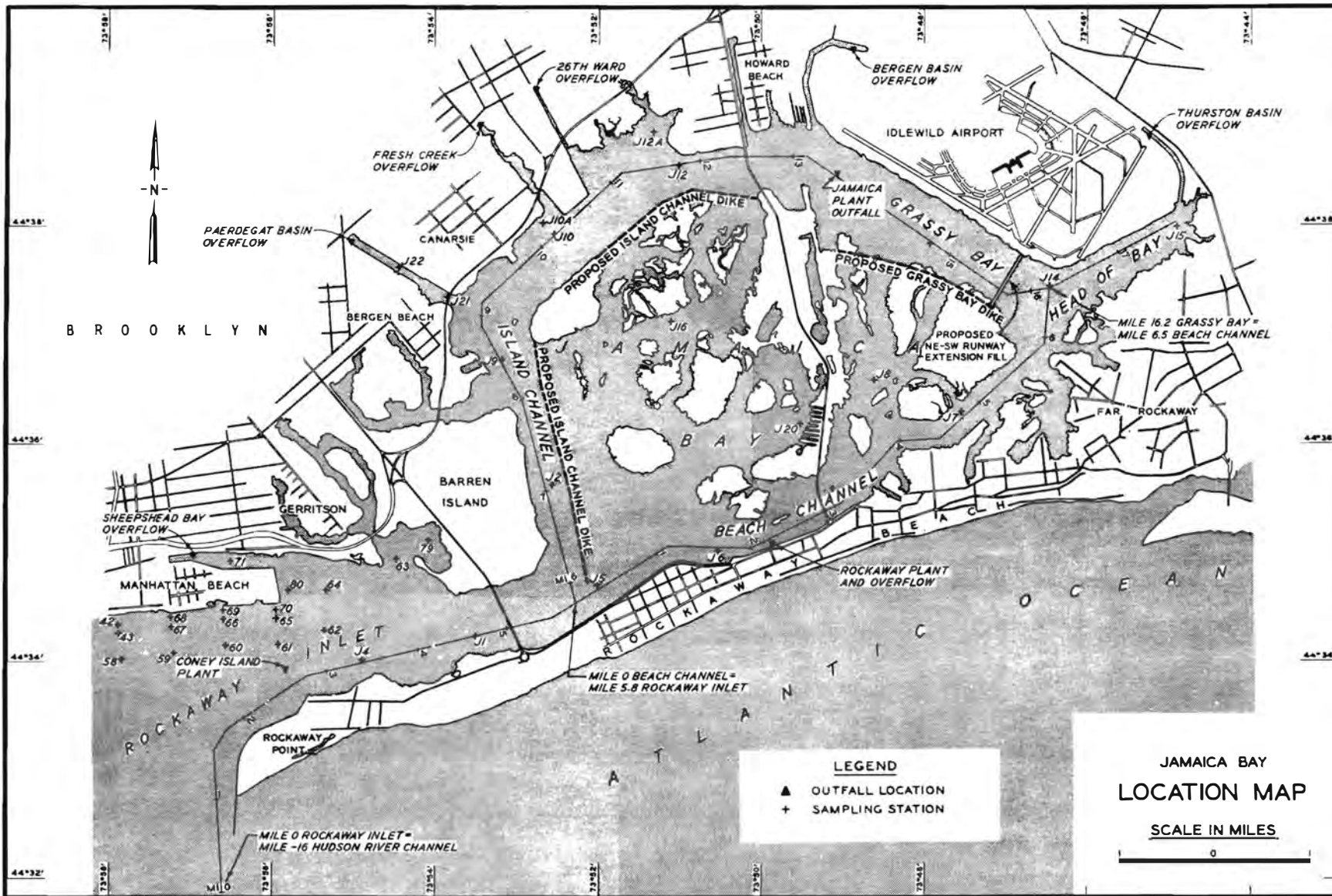
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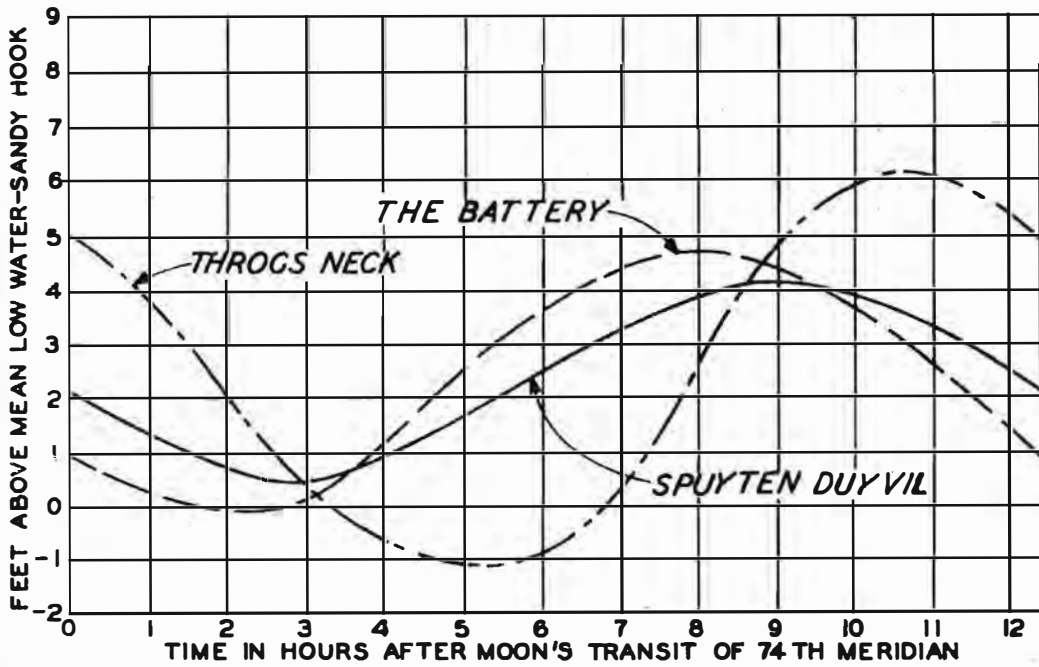
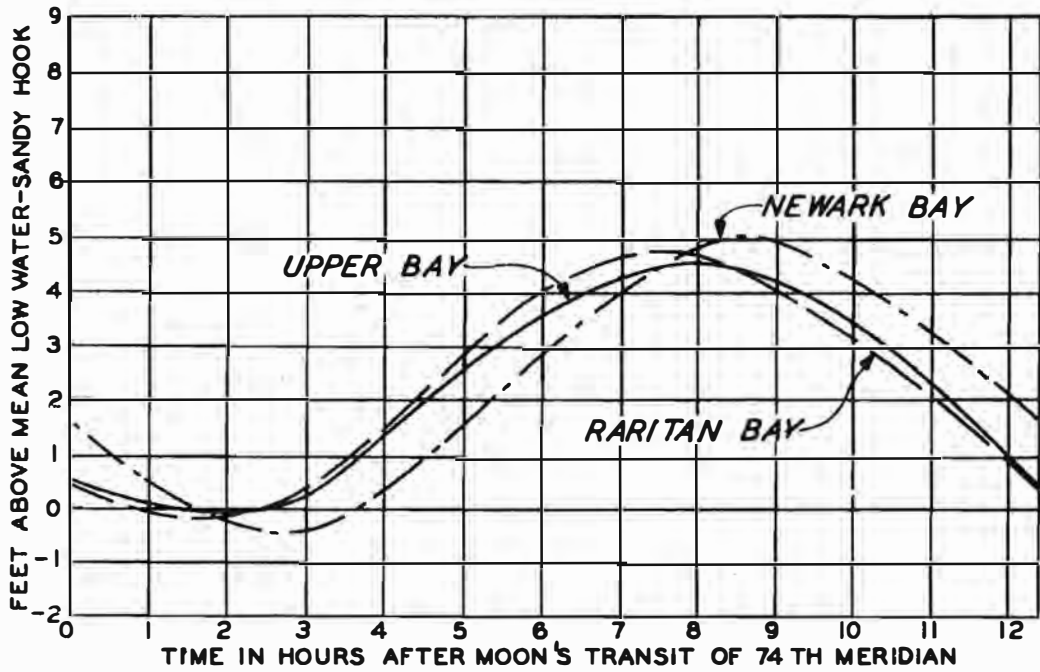
Table 15 (Concluded)

Station	Low-Water Slack			High-Water Slack		
	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff hr:min	Actual sec from hr 0	Equivalent Prototype hr:min	Time Diff hr:min
Upper Bay:						
5	74	2:04	-2:18	322	8:57	-0:52
11	87	2:25	-1:57	304	8:27	-1:22
13	157	4:22	0:00	353	9:49	0:00
13A	157	4:22	0:00	353	9:49	0:00
13B	155	4:19	-0:03	353	9:49	0:00
14A	131	3:38	-0:44	247	6:52	-2:57
15A	221	6:08	1:46	395	10:59	1:10
16	188	5:13	0:51	386	10:44	0:55
17	136	3:47	-0:35	355	9:52	0:03
18	148	4:07	-0:15	366	10:10	0:21
19	36	1:00	-3:22	321	8:55	-0:54
20	179	4:58	0:36	380	10:34	0:45
22	166	4:37	0:15	372	10:20	0:31
Hudson River:						
-15	90	2:30	-1:52	314	8:43	-1:06
-12	126	3:30	-0:52	322	8:57	-0:52
3	237	6:35	2:13	400	11:07	1:18
6	208	5:47	1:25	405	11:15	1:26
9	212	5:53	1:31	413	11:29	1:40
12	217	6:02	1:40	418	11:37	1:48
15	222	6:10	1:48	426	11:50	2:01
18	227	6:19	1:57	431	11:59	2:10
21	232	6:27	2:05	432	12:00	2:11
26	240	6:40	2:18	436	12:07	2:18
East River:						
3	152	4:13	-0:09	352	9:47	-0:02
5	150	4:10	-0:12	352	9:47	-0:02
7	147	4:05	-0:17	352	9:47	-0:02
9	146	4:04	-0:18	363	10:05	0:16
11	137	3:49	-0:33	360	10:00	0:11
13	150	4:10	-0:12	359	9:58	0:09
15	144	4:00	-0:22	351	9:45	-0:04
17	138	3:50	-0:32	345	9:35	-0:14
21C	130	3:37	-0:45	327	9:05	-0:44
East River Headbay:						
1	34	0:56	-3:26	273	7:35	-2:14
Flushing Bay:						
15	140	3:53	-0:29	411	11:25	1:36
Rikers Island:						
12	140	3:53	-0:29	370	10:17	0:28
Harlem River:						
3	117	3:15	-1:07	240	6:40	-3:09
6	122	3:23	-0:59	235	6:32	-3:17

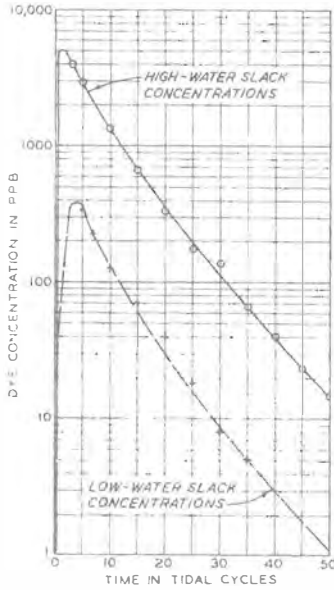




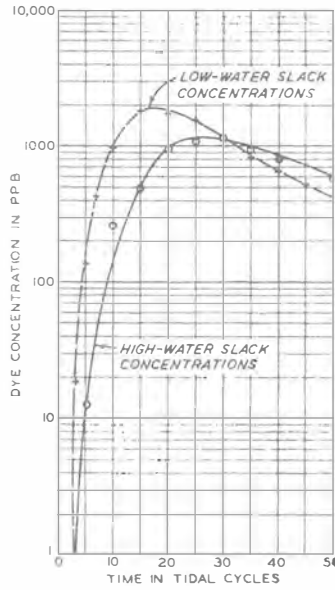




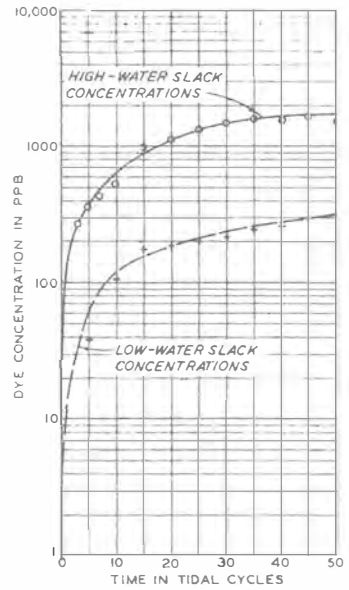
INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
 NEW YORK HARBOR MODEL
 MEAN TIDAL HEIGHTS



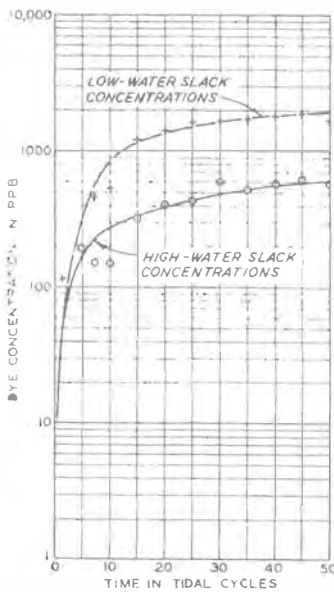
CONCENTRATIONS AT MILE 45.0
ONE-CYCLE RELEASE AT MILE 43.0
HUDSON RIVER



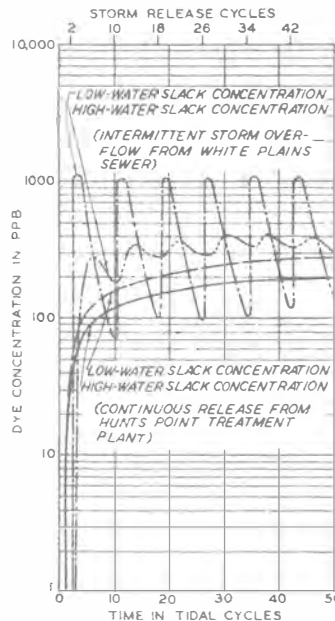
CONCENTRATIONS AT MILE 30.0
ONE-CYCLE RELEASE AT MILE 43.0
HUDSON RIVER



CONCENTRATIONS AT MILE 15.0
CONTINUOUS RELEASE AT MILE 8.5
HUDSON RIVER



CONCENTRATIONS AT MILE 3.0
CONTINUOUS RELEASE AT MILE 8.5
HUDSON RIVER

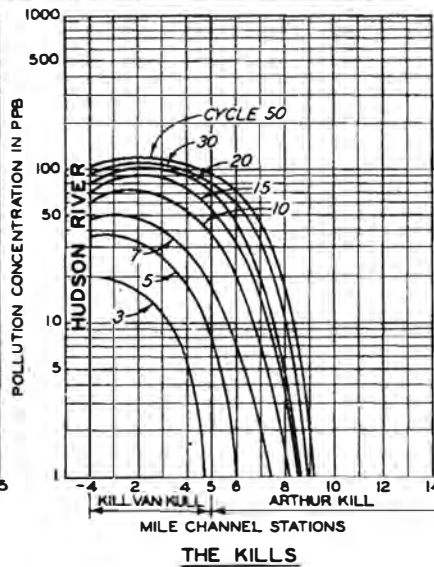
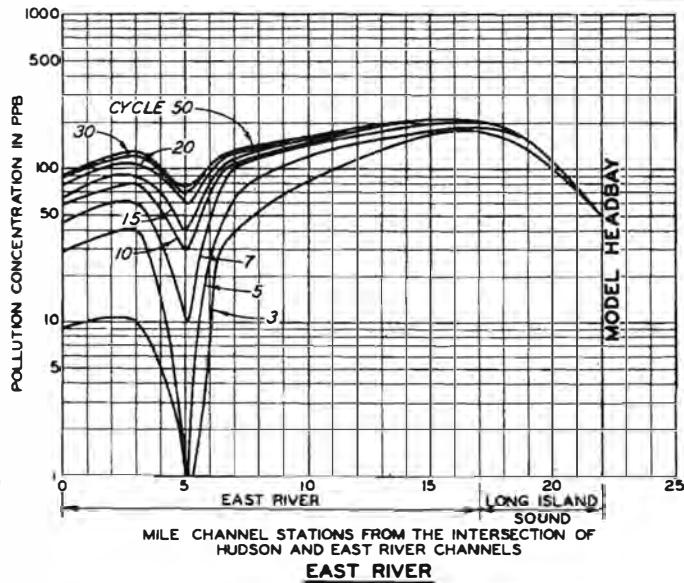
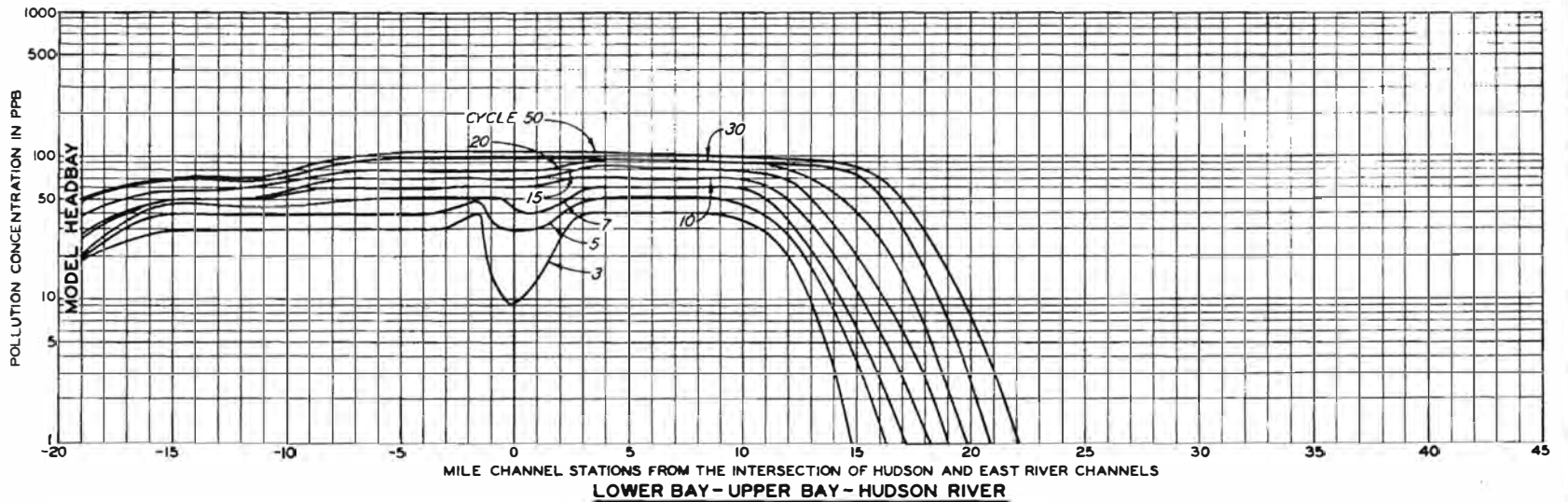


CONCENTRATIONS AT STATION 17
IN UPPER BAY
BOTH INTERMITTENT AND
CONTINUOUS RELEASE

LEGEND

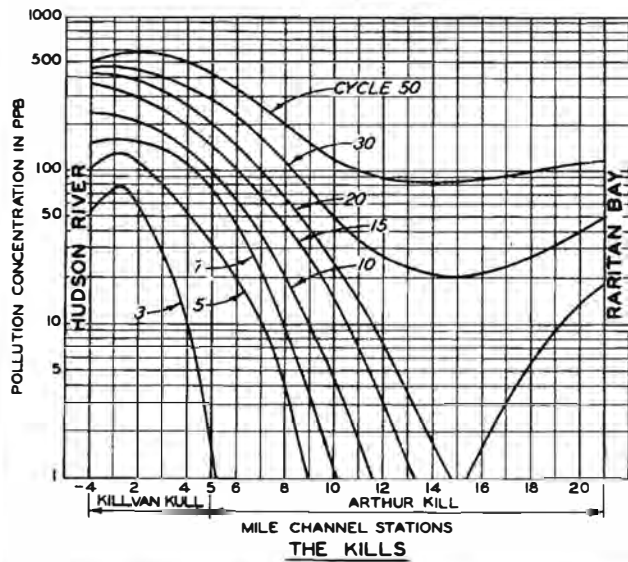
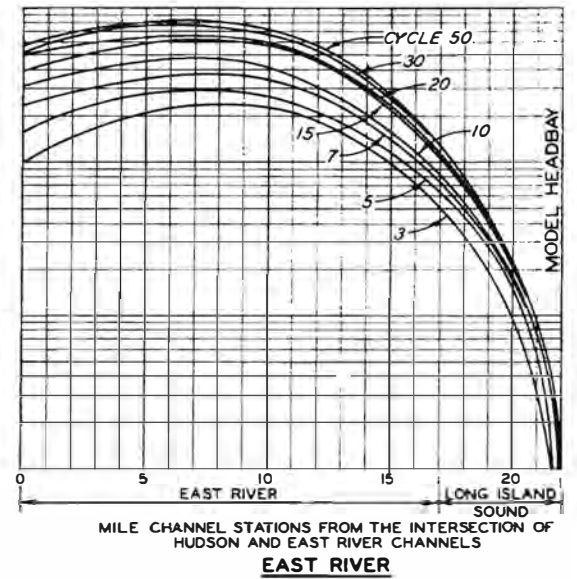
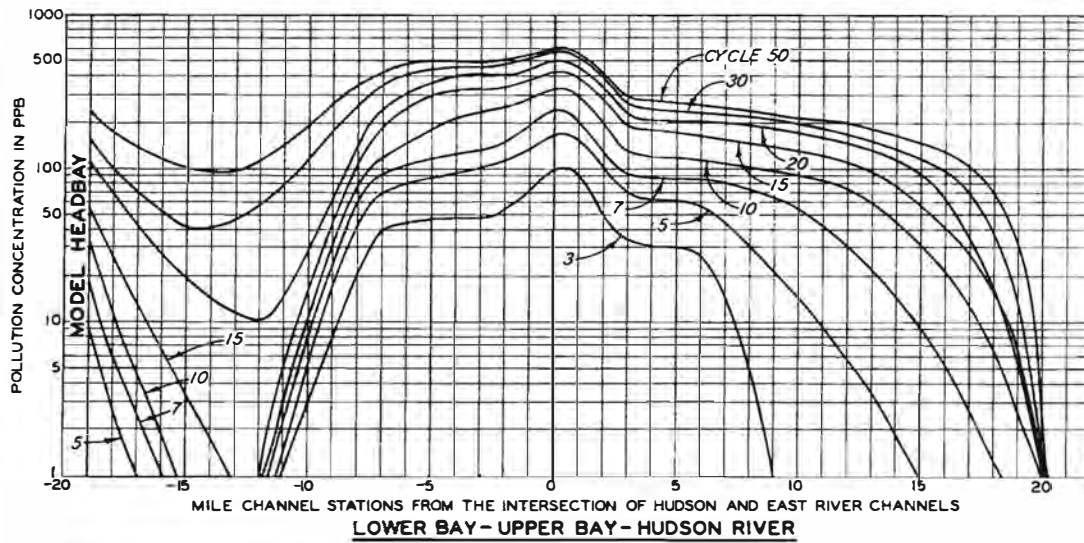
- HIGH-WATER SLACK OBSERVATION
- + LOW-WATER SLACK OBSERVATION

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
TYPICAL CURVES
DYE CONCENTRATION VS TIME



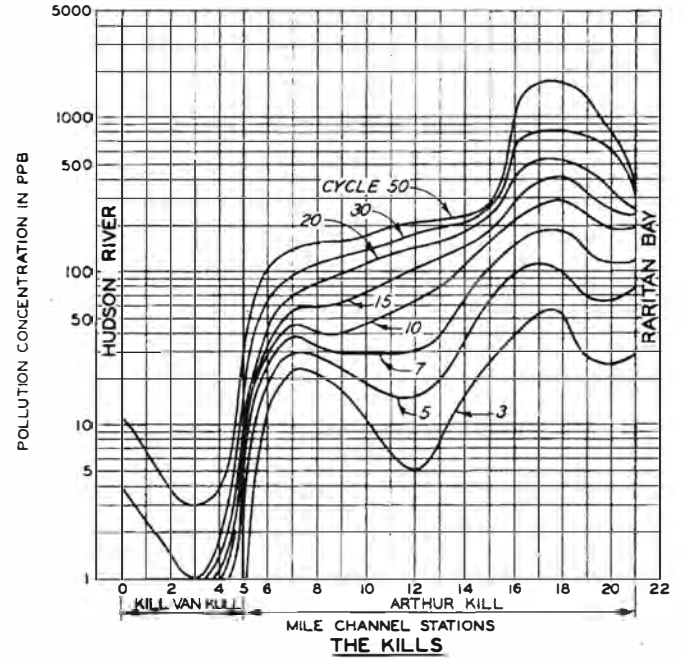
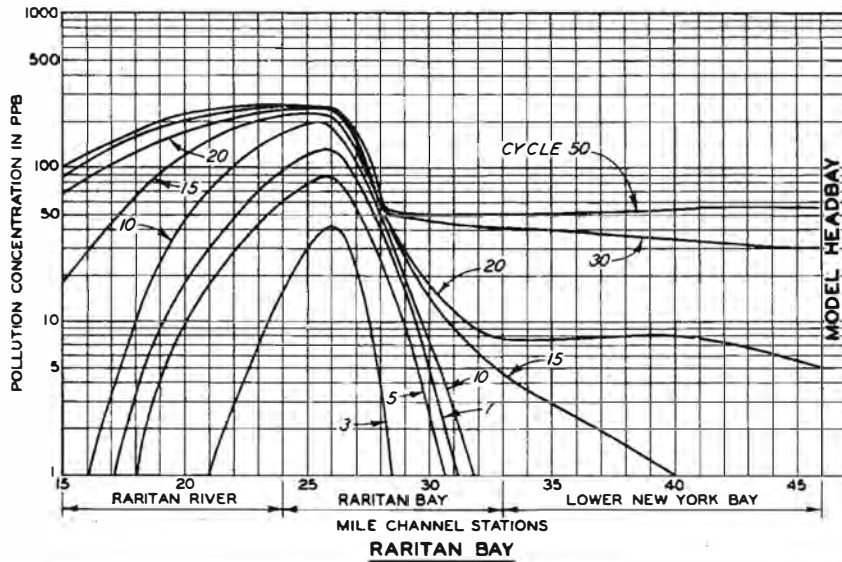
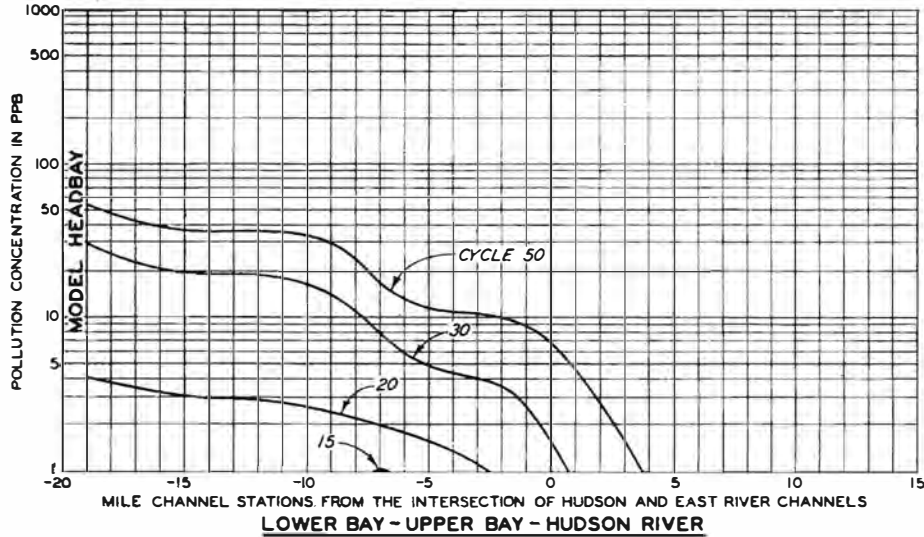
NOTE: PLANT DISCHARGE = 38 MGD AT 10,000 PPB.
 VALUES SHOWN HAVE BEEN INCREASED 10
 TIMES TO MAKE CURVES COMPARABLE TO
 TESTS WHERE THE INITIAL CONCENTRATION
 WAS 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
TALLMANS ISLAND TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER,
 EAST RIVER, AND THE KILLS



NOTE: PLANT DISCHARGE=223 MGD AT 10,000 PPB.
 VALUES SHOWN HAVE BEEN INCREASED 10
 TIMES TO MAKE CURVES COMPARABLE TO
 TESTS WHERE THE INITIAL CONCENTRATION
 WAS 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 WARDS ISLAND TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER,
 EAST RIVER, AND THE KILLS



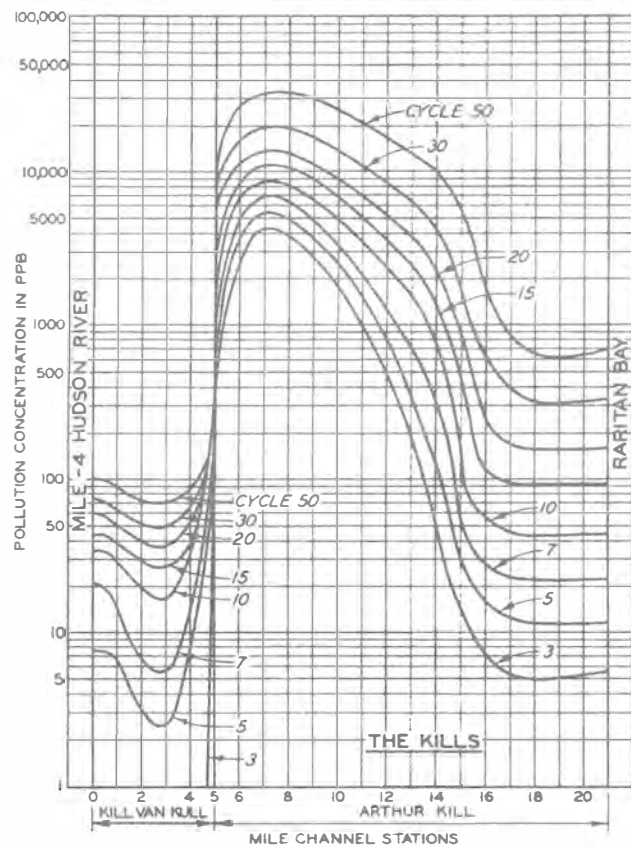
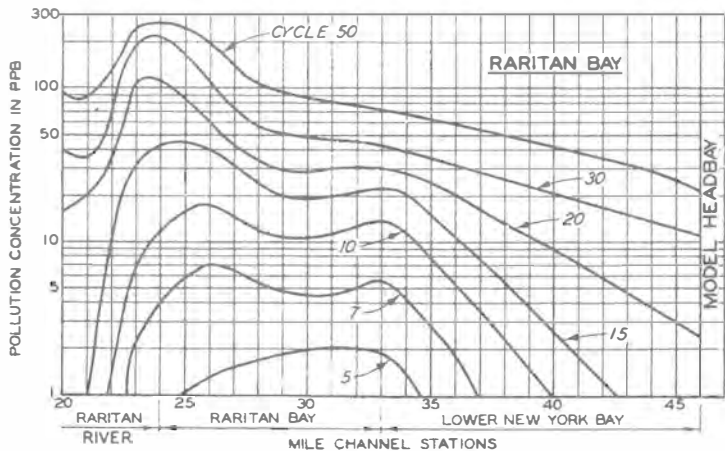
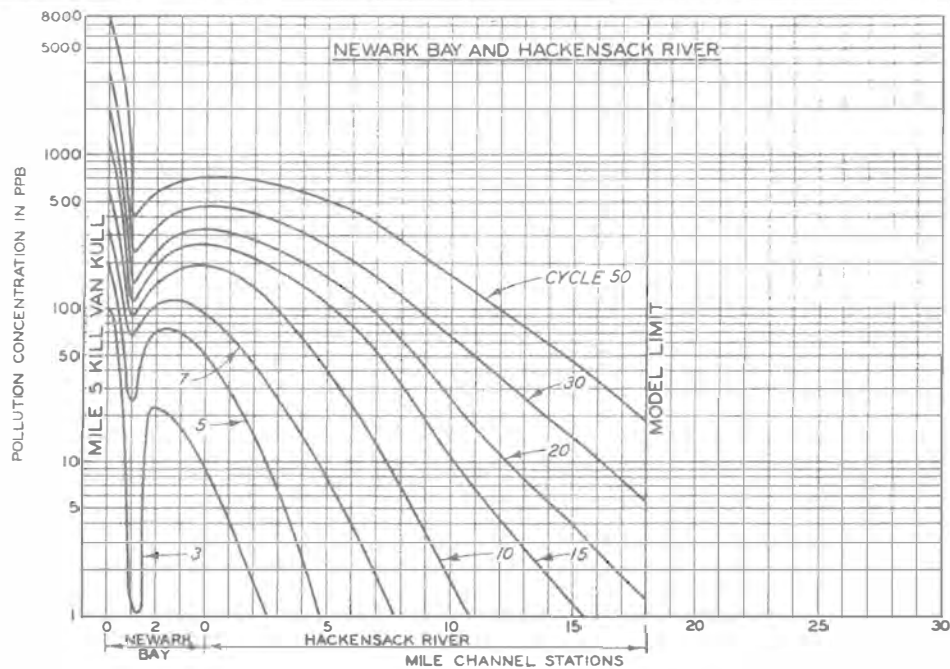
NOTE: PLANT DISCHARGE = 36 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**

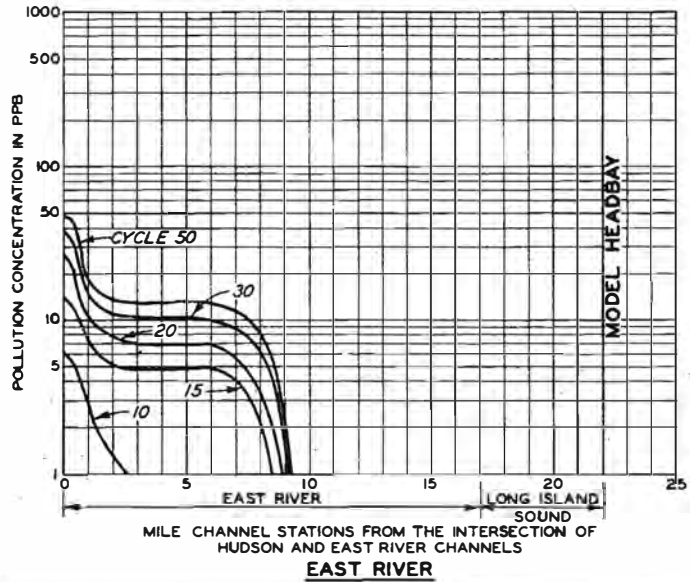
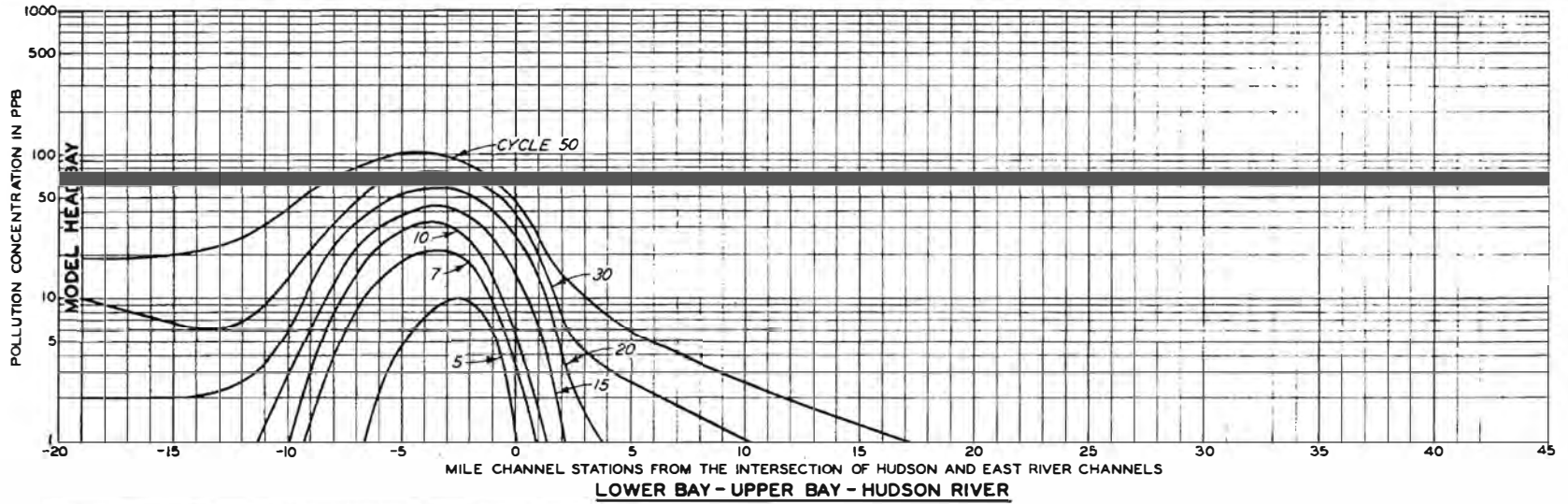
MIDDLESEX COUNTY TREATMENT PLANT

LOWER BAY-UPPER BAY-HUDSON RIVER,
 THE KILLS, AND RARITAN BAY



NOTE: PLANT DISCHARGE=100 MGD
AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER
INFLOWS=12,000 CFS AND 1770 CFS
RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**
RAHWAY RIVER TREATMENT PLANT
NEWARK BAY, HACKENSACK RIVER,
THE KILLS, AND RARITAN BAY

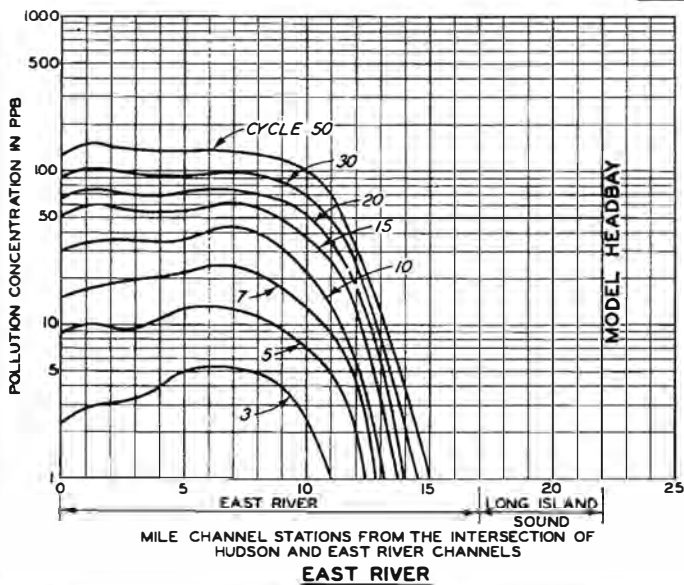
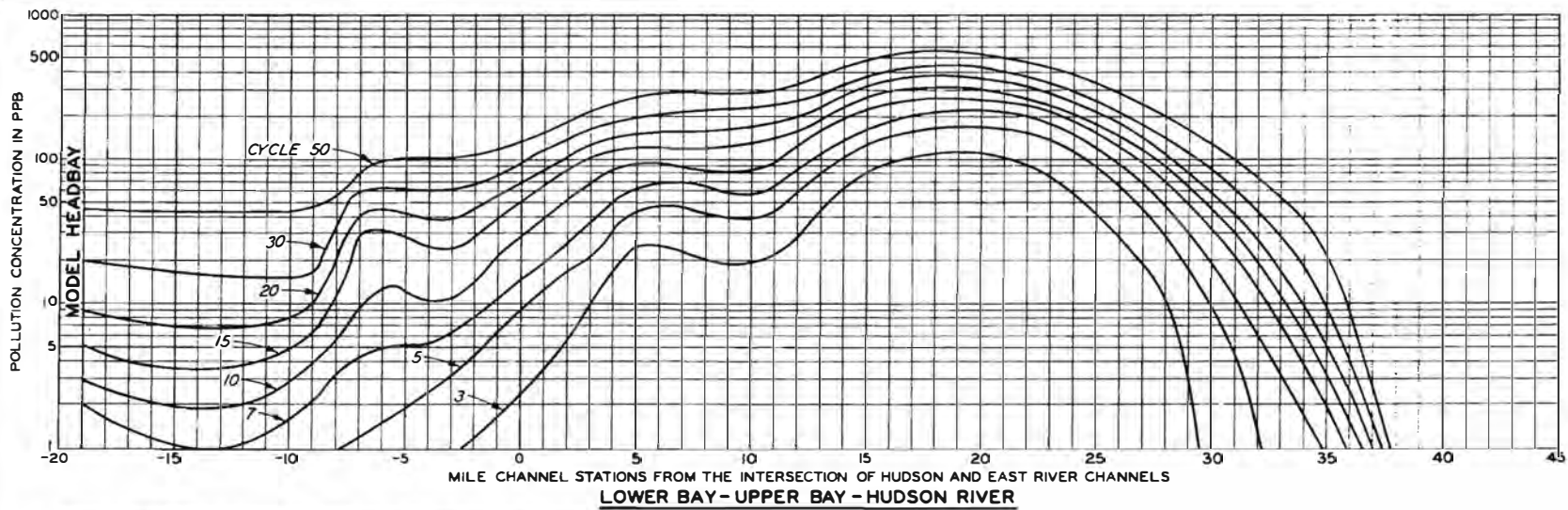


NOTE: PLANT DISCHARGE = 100 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES

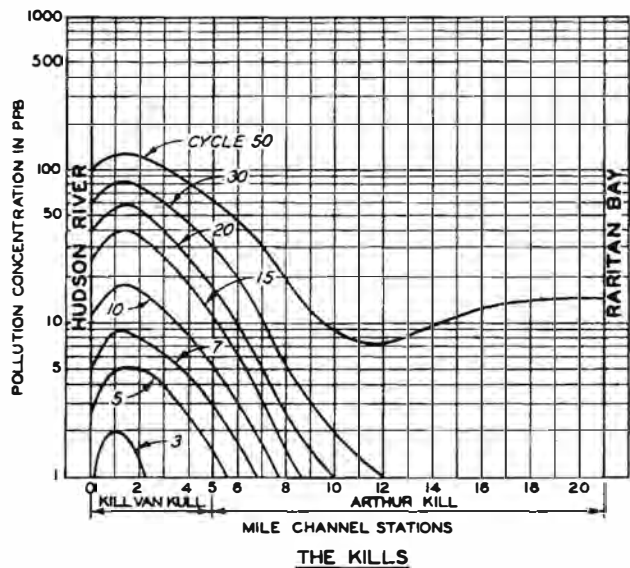
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**

RAHWAY RIVER TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER

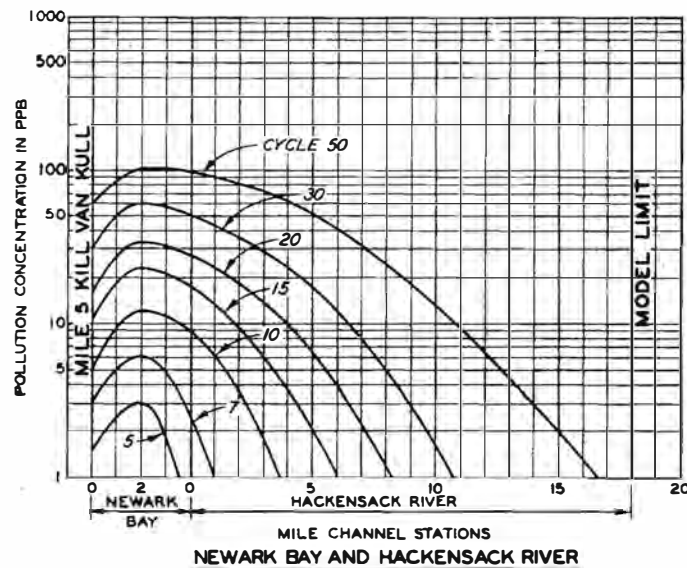


NOTE: PLANT DISCHARGE = 53 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

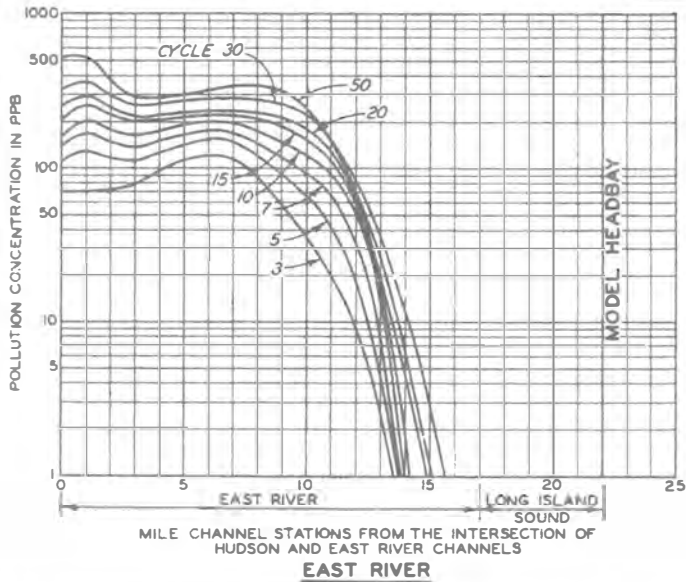
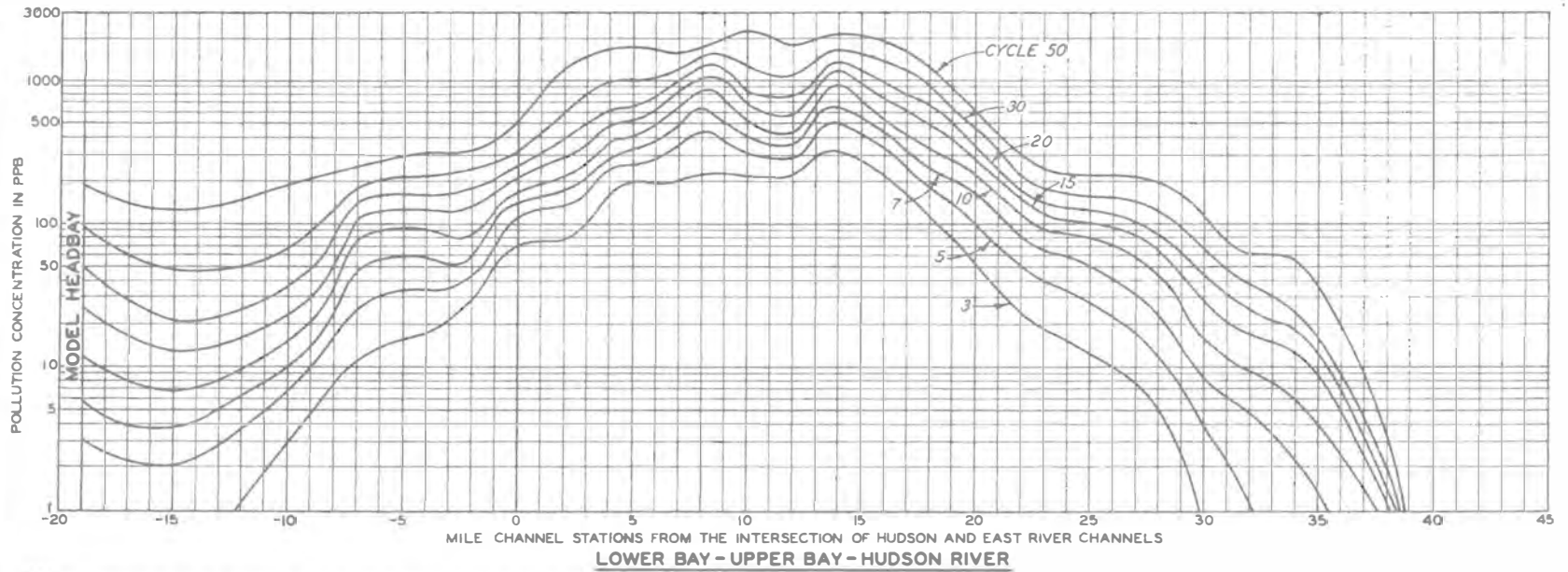
INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 NEW YONKERS TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER



NOTE: PLANT DISCHARGE = 53 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

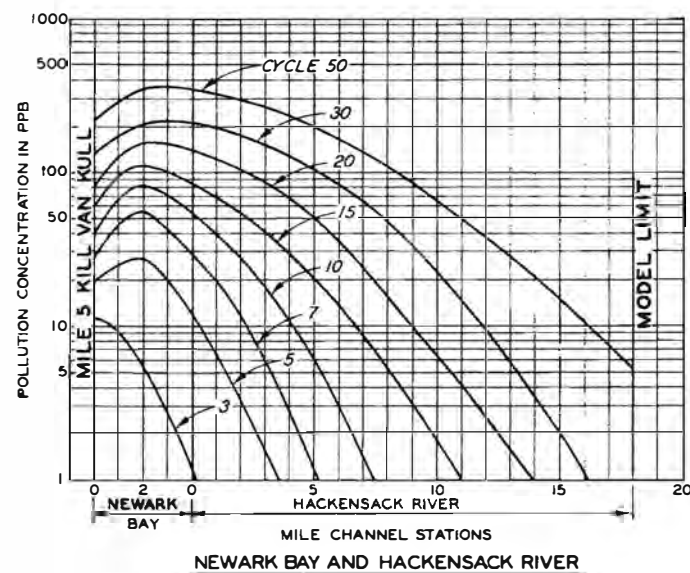
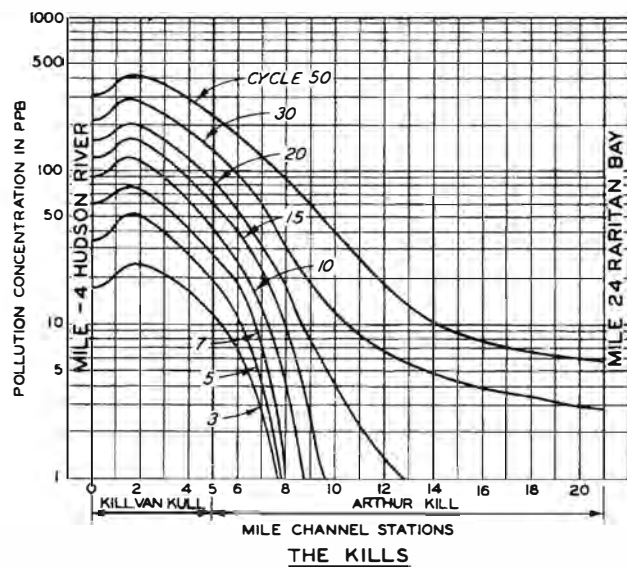


INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 NEW YORKERS TREATMENT PLANT
 THE KILLS, NEWARK BAY,
 AND HACKENSACK RIVER



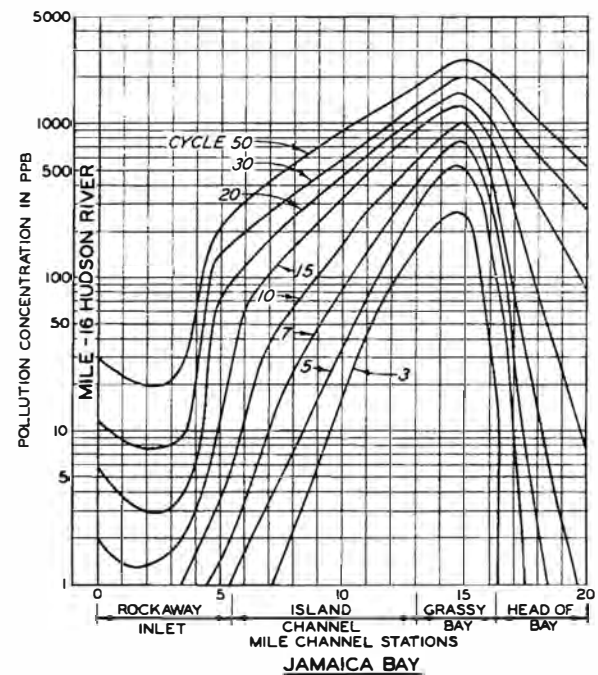
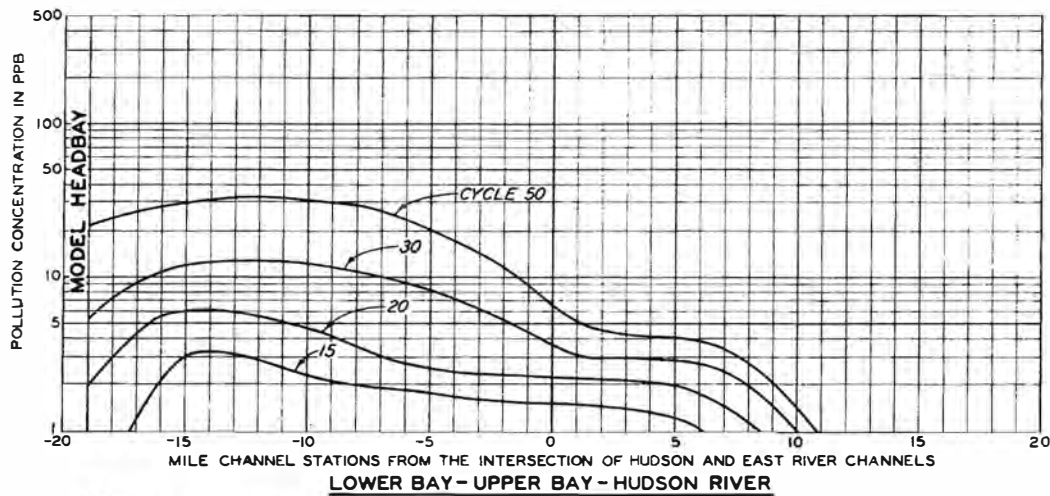
NOTE: PLANT DISCHARGE = 220 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 NORTH RIVER TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER

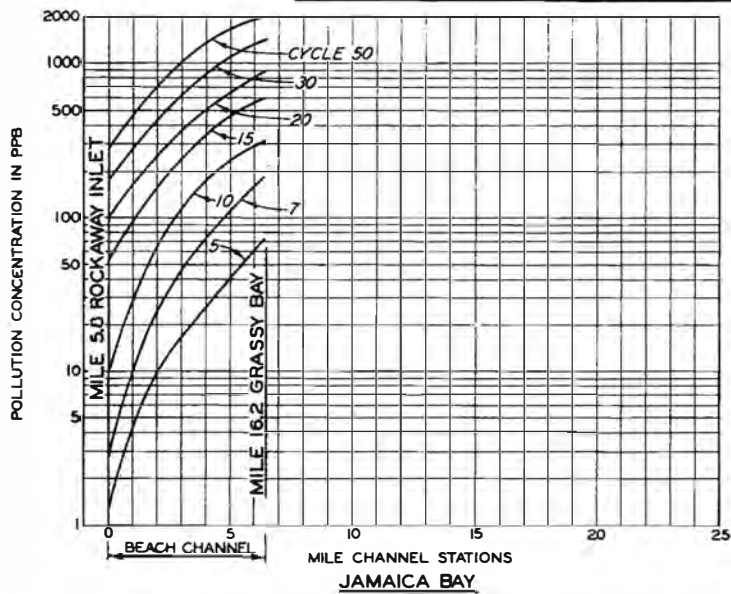


NOTE: PLANT DISCHARGE = 220 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 NORTH RIVER TREATMENT PLANT
 THE KILLS, NEWARK BAY,
 AND HACKENSACK RIVER



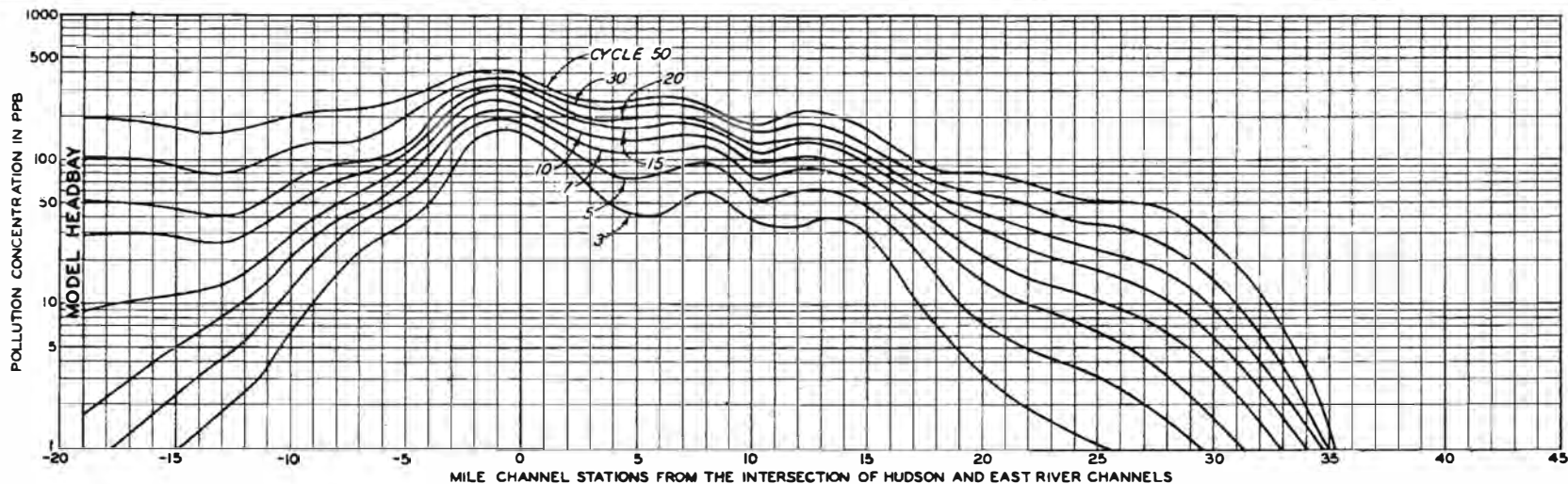
NOTE: PLANT DISCHARGE = 53 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 12,000 CFS AND 1770 CFS RESPECTIVELY.



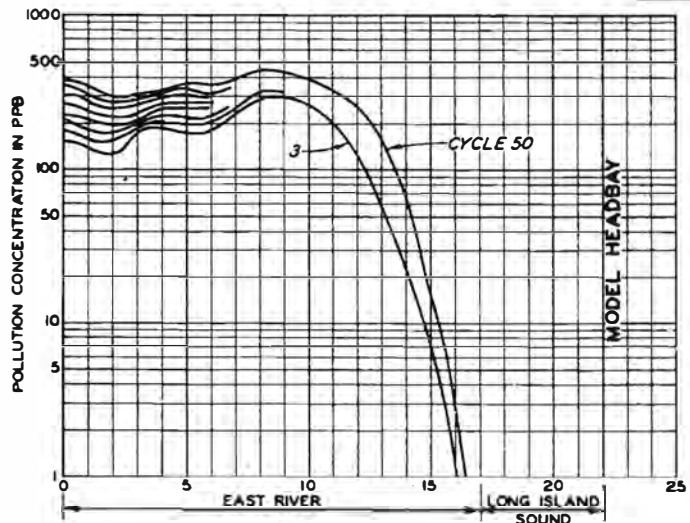
INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**

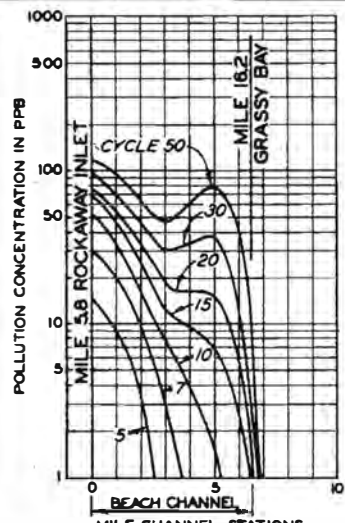
JAMAICA BAY TREATMENT PLANT
 LOWER BAY-UPPER BAY-HUDSON RIVER
 AND JAMAICA BAY



LOWER BAY - UPPER BAY - HUDSON RIVER

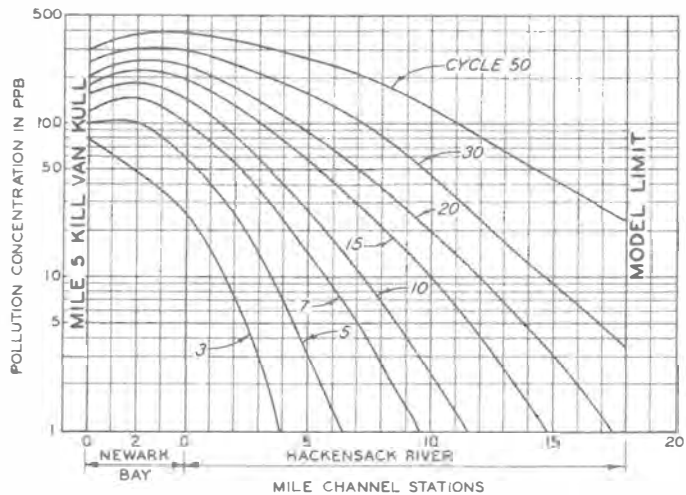


EAST RIVER

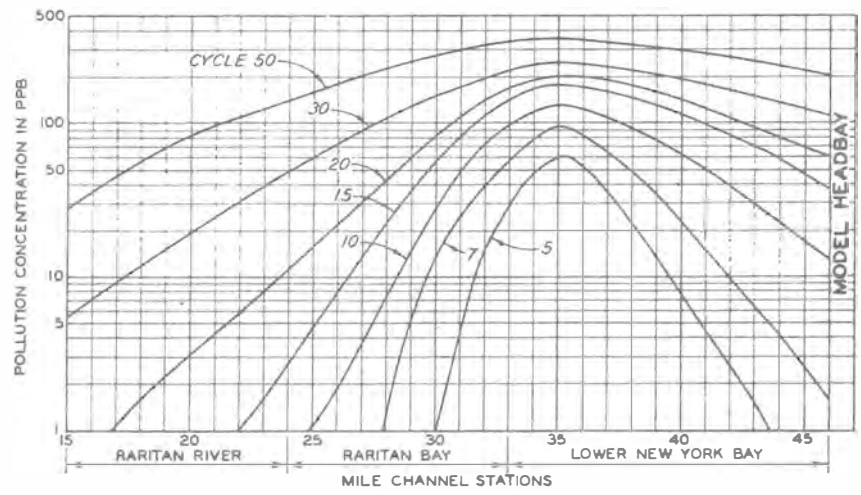


NOTE: PLANT DISCHARGE = 310 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS = 12,000 CFS AND 1770 CFS RESPECTIVELY.

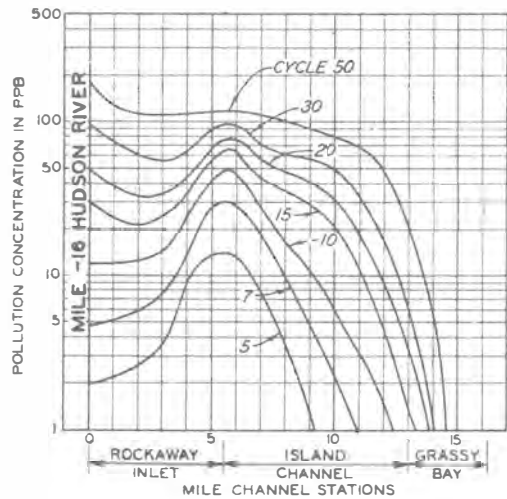
INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**
NEWTOWN CREEK TREATMENT PLANT
LOWER BAY-UPPER BAY-HUDSON RIVER,
EAST RIVER, AND JAMAICA BAY



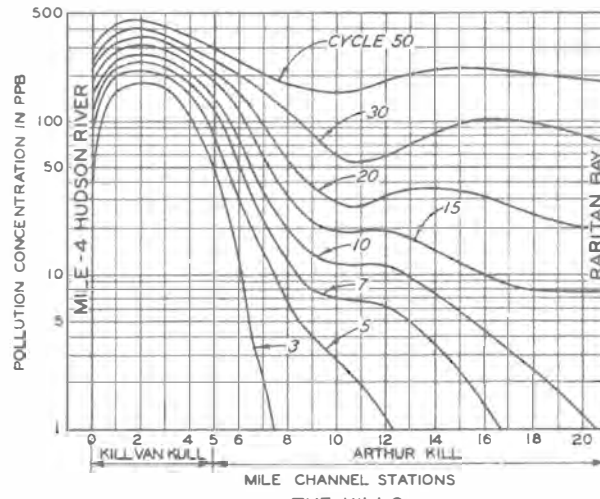
NEWARK BAY AND HACKENSACK RIVER



RARITAN BAY



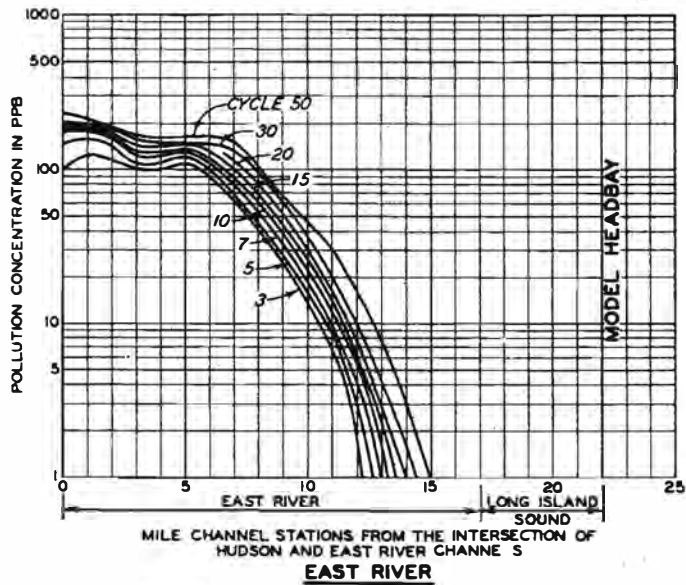
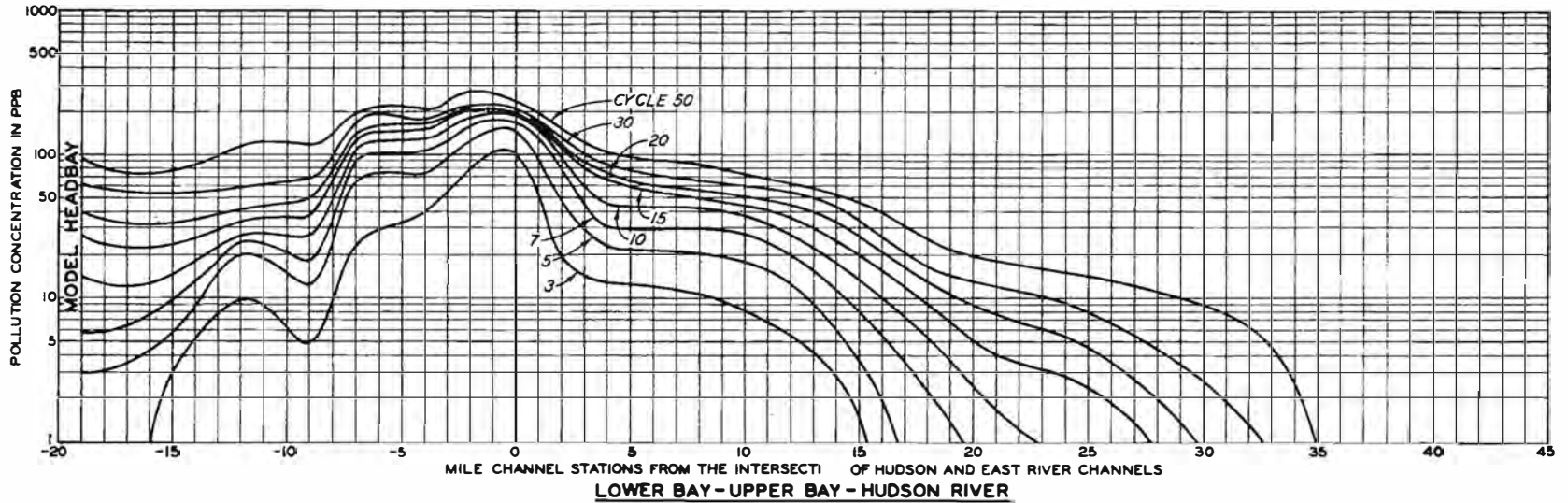
JAMAICA BAY



THE KILLS

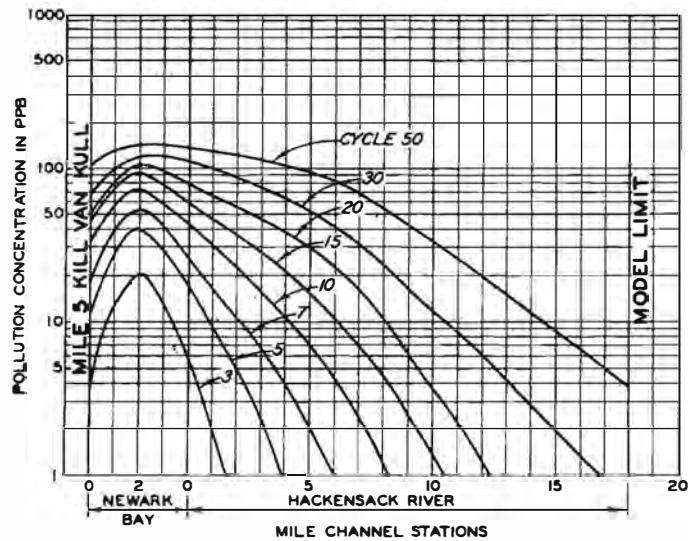
NOTE: PLANT DISCHARGE = 310 MGD AT 100,000 PPB,
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**
NEWTOWN CREEK TREATMENT PLANT
NEWARK BAY, HACKENSACK RIVER,
RARITAN BAY, JAMAICA BAY, AND THE KILLS

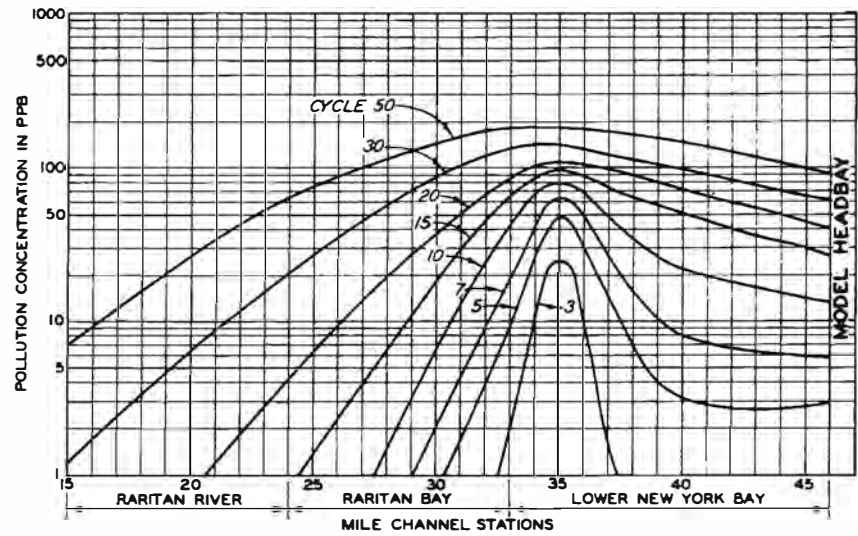


NOTE: PLANT DISCHARGE = 94 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 4500 CFS AND 665 CFS RESPECTIVELY.

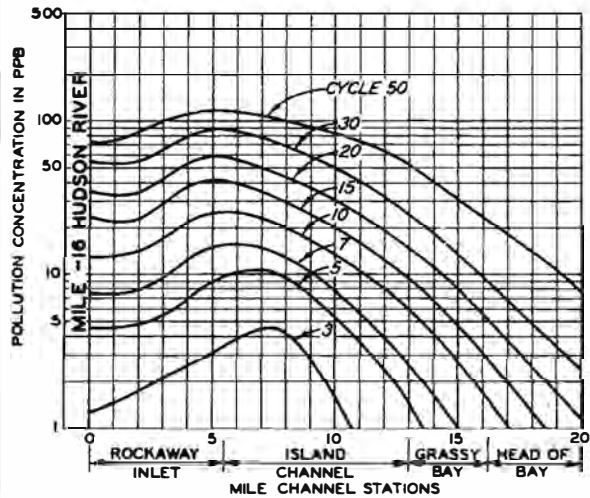
INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK
OWL'S HEAD TREATMENT PLANT
LOW FRESH WATER INFLOW
LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER**



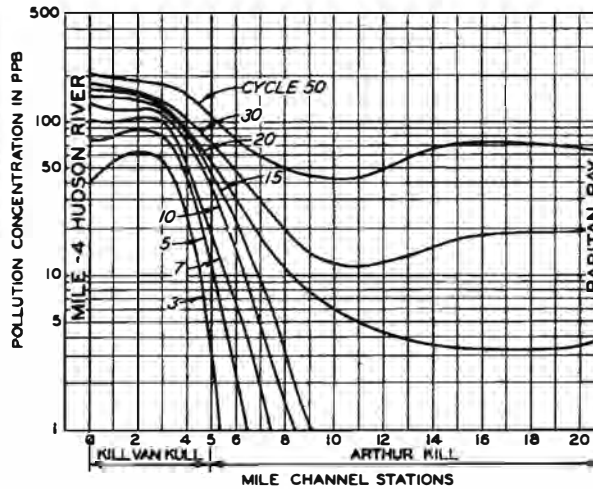
NEWARK BAY AND HACKENSACK RIVER



RARITAN BAY



JAMAICA BAY

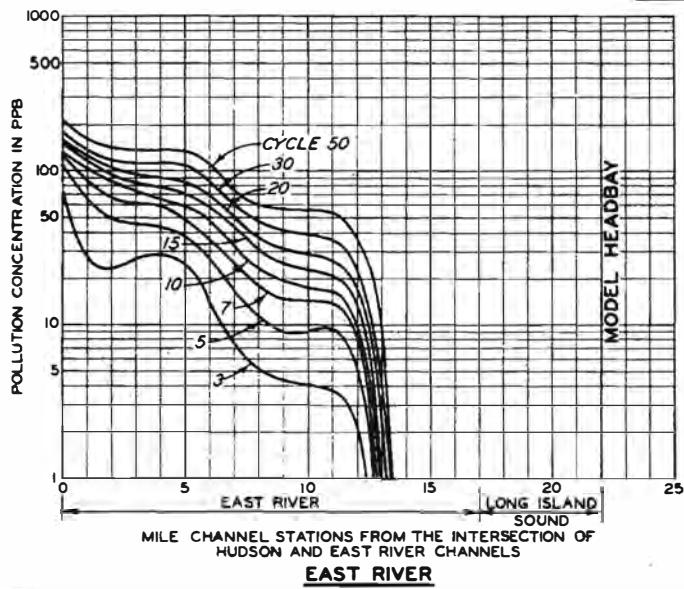
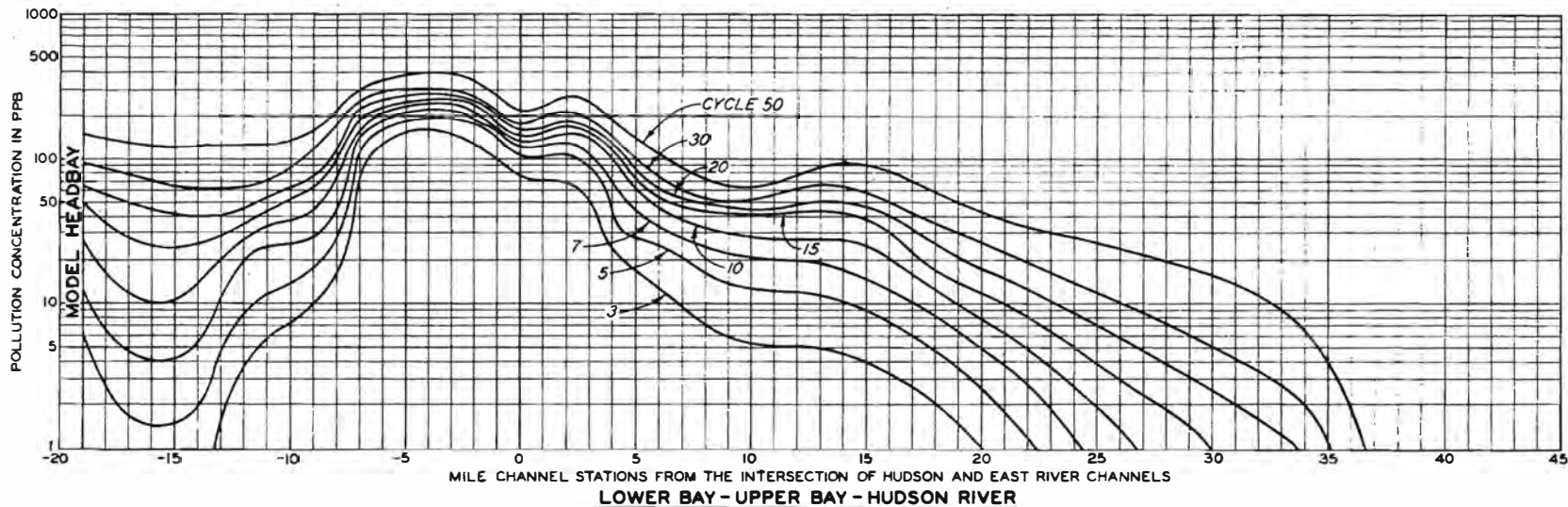


THE KILLS

NOTE: PLANT DISCHARGE = 94 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 4500 CFS AND 665 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK
OWL'S HEAD TREATMENT PLANT
LOW FRESH WATER INFLOW
NEWARK BAY, HACKENSACK RIVER,
RARITAN BAY, JAMAICA BAY, AND THE KILLS**



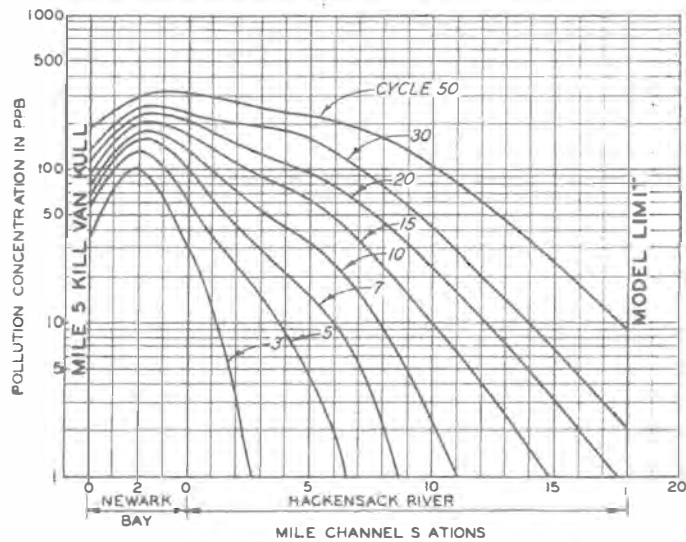
NOTE: PLANT DISCHARGE=200 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 4500 CFS AND 665 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES

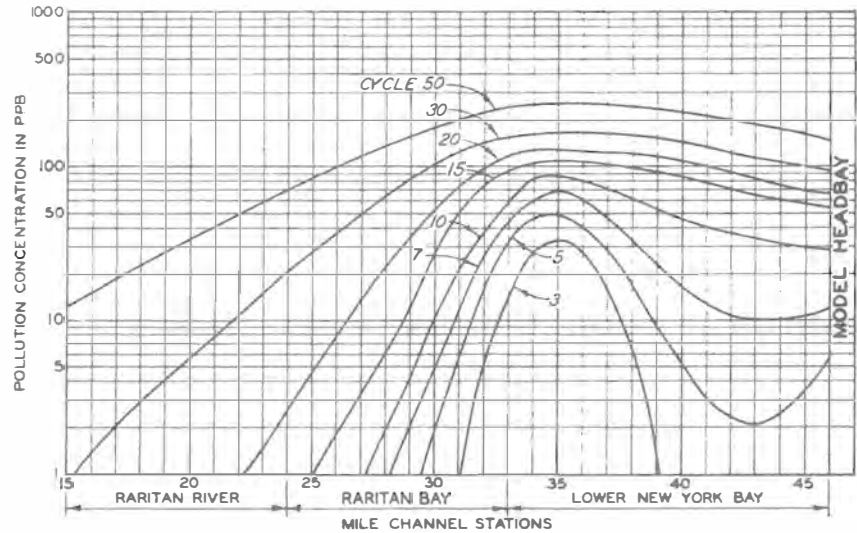
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**

PASSAIC VALLEY TREATMENT PLANT
 LOW FRESH WATER INFLOW

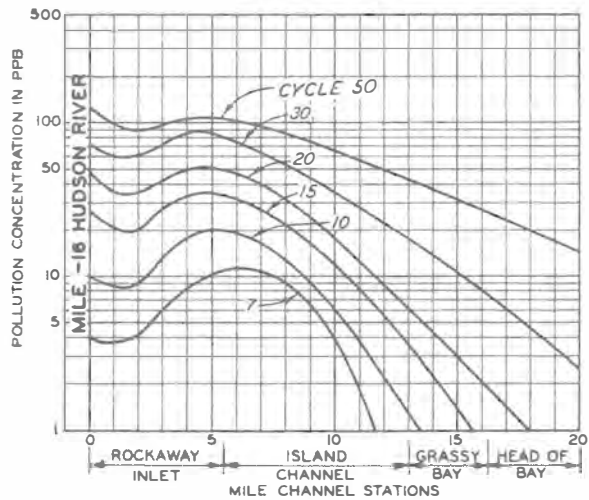
LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER



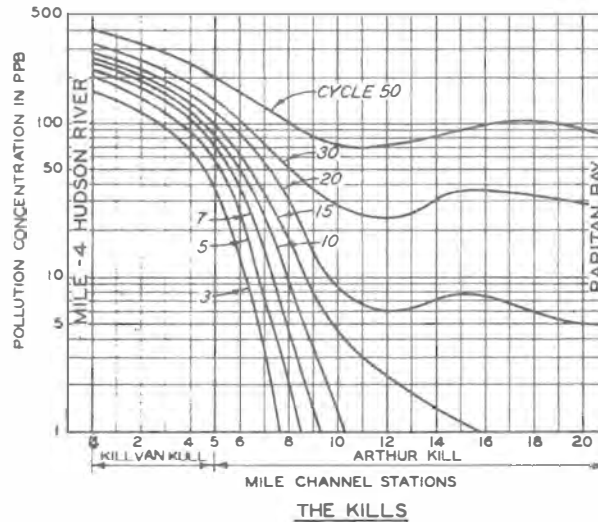
NEWARK BAY AND HACKENSACK RIVER



RARITAN BAY



JAMAICA BAY

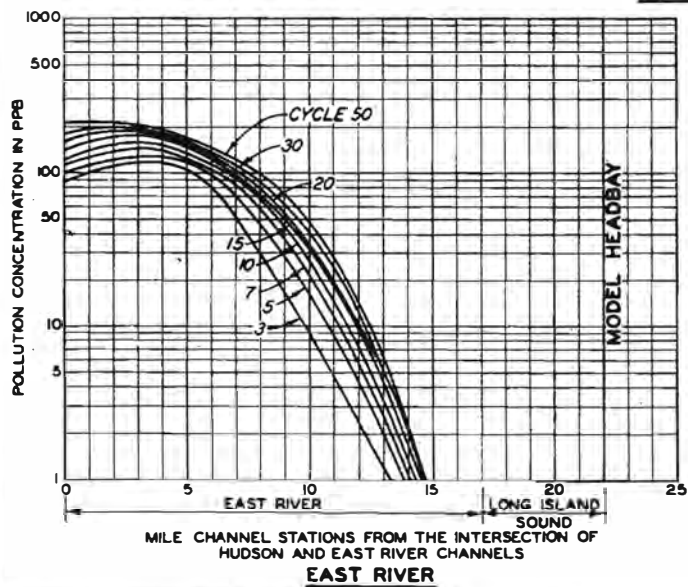
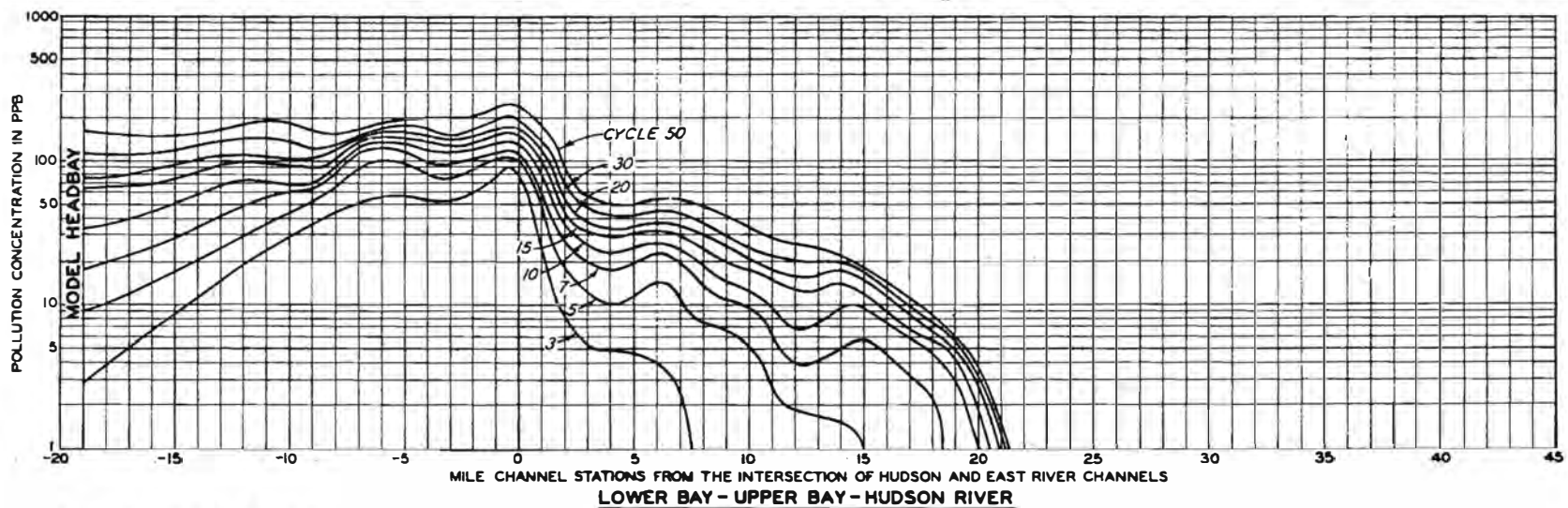


THE KILLS

NOTE: PLANT DISCHARGE = 200 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 4500 CFS AND 665 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK
PASSAIC VALLEY TREATMENT PLANT
LOW FRESH WATER INFLOW
NEWARK BAY, HACKENSACK RIVER,
RARITAN BAY, JAMAICA BAY, AND THE KILLS**

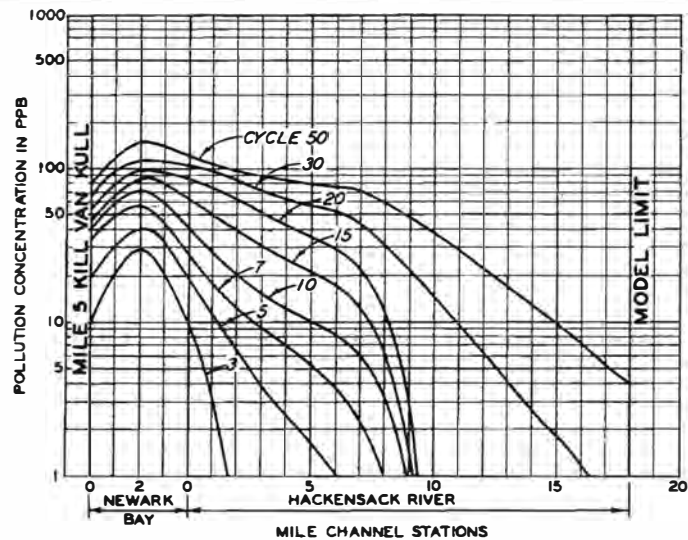


NOTE: PLANT DISCHARGE = 94 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 24,000 CFS AND 3530 CFS RESPECTIVELY.

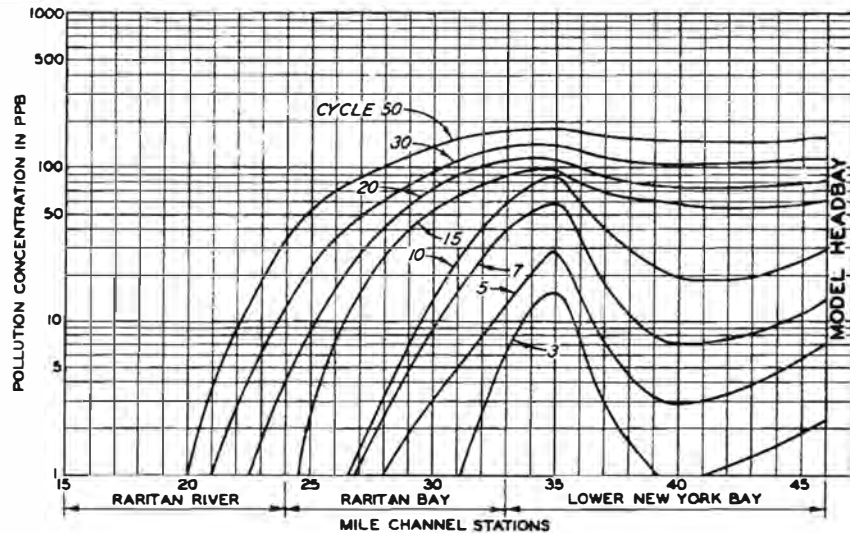
INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**

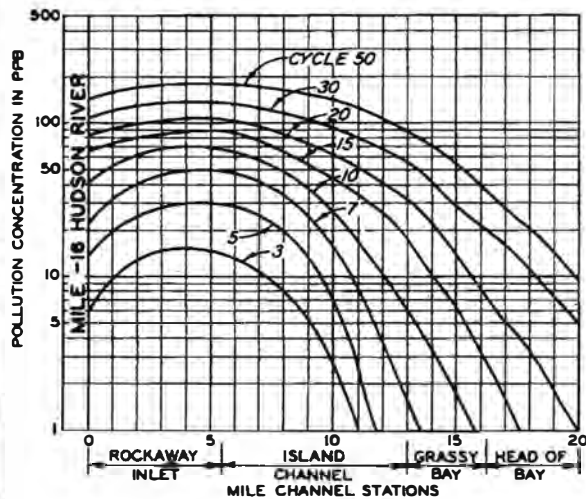
OWL'S HEAD TREATMENT PLANT
HIGH FRESH WATER INFLOW
LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER



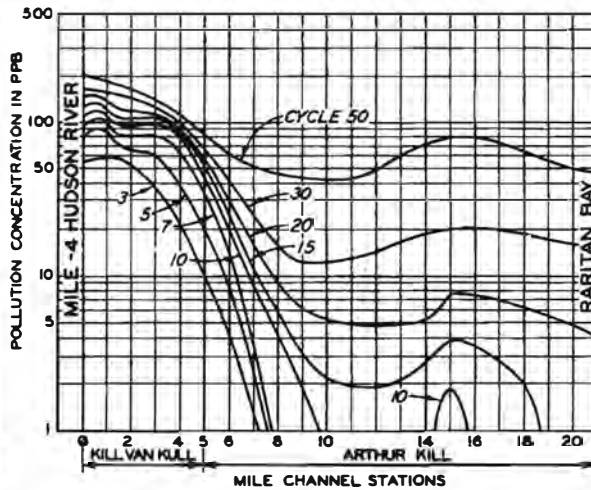
NEWARK BAY AND HACKENSACK RIVER



RARITAN BAY



JAMAICA BAY



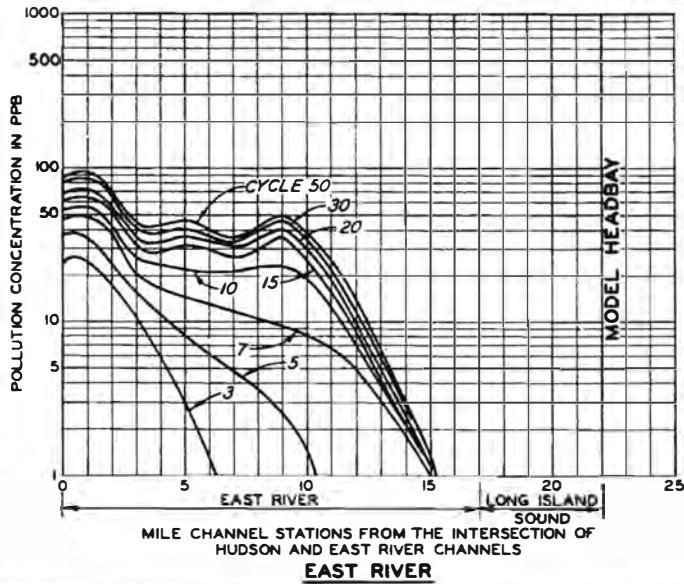
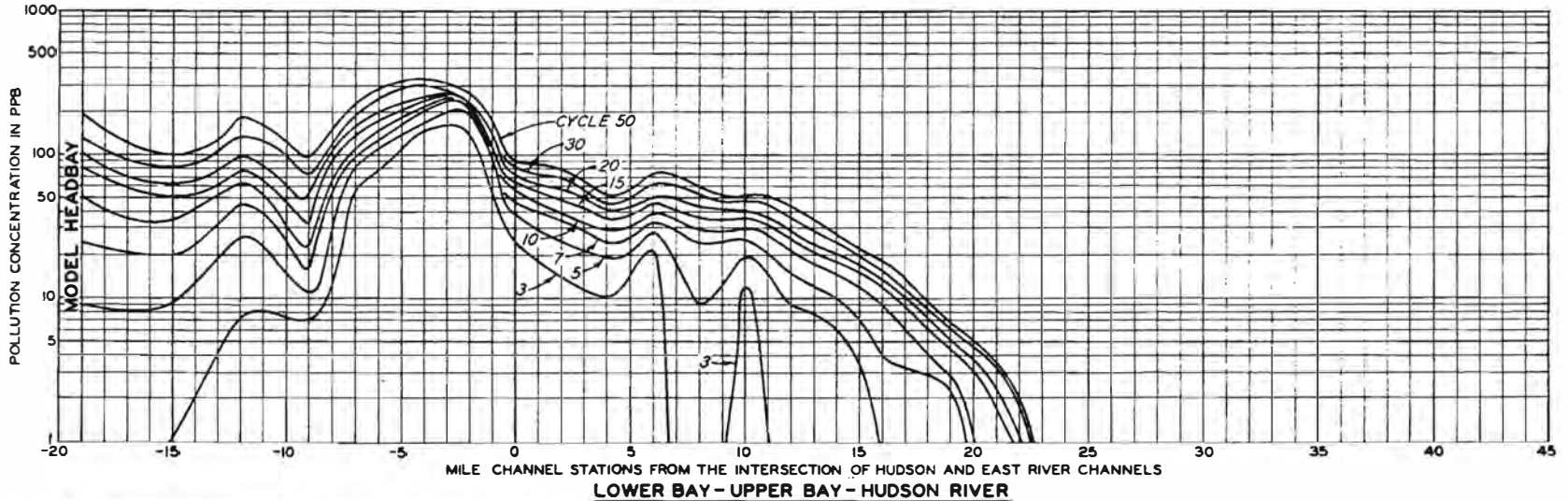
THE KILLS

NOTE: PLANT DISCHARGE = 94 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 24,000 CFS AND 3530 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES

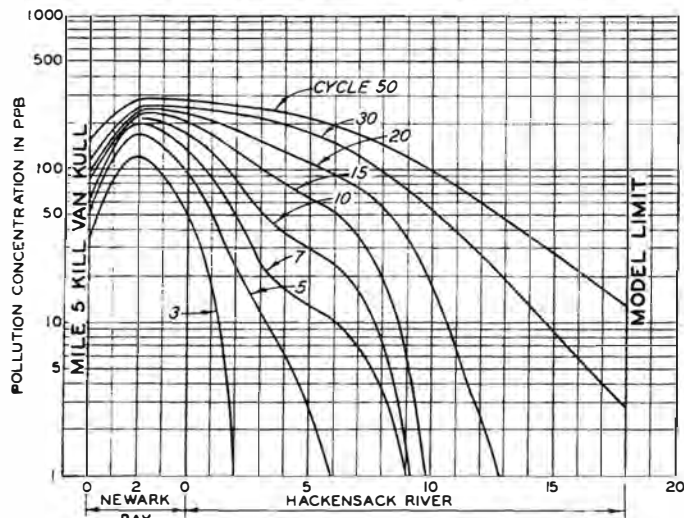
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**

OWL'S HEAD TREATMENT PLANT
HIGH FRESH WATER INFLOW
NEWARK BAY, HACKENSACK RIVER,
RARITAN BAY, JAMAICA BAY, AND THE KILLS

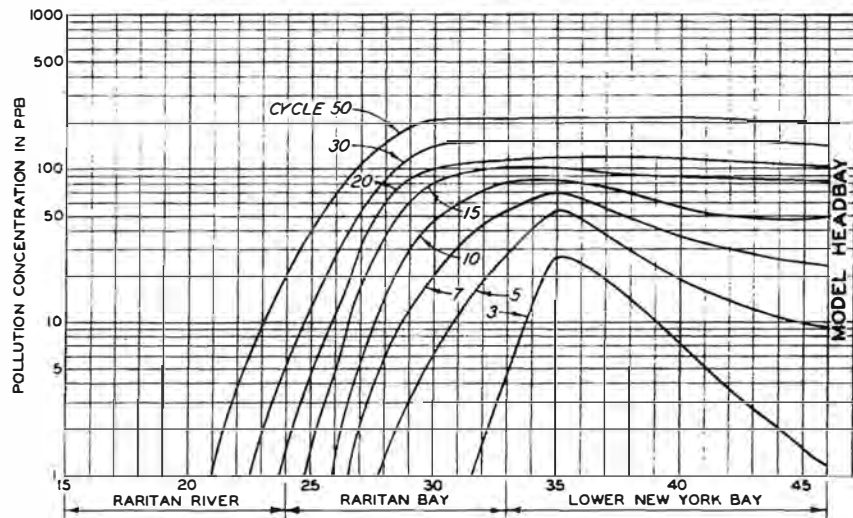


NOTE: PLANT DISCHARGE = 200 MGD AT 100,000 PPB.
 HUDSON RIVER AND RARITAN RIVER INFLOWS
 = 24,000 CFS AND 3530 CFS RESPECTIVELY.

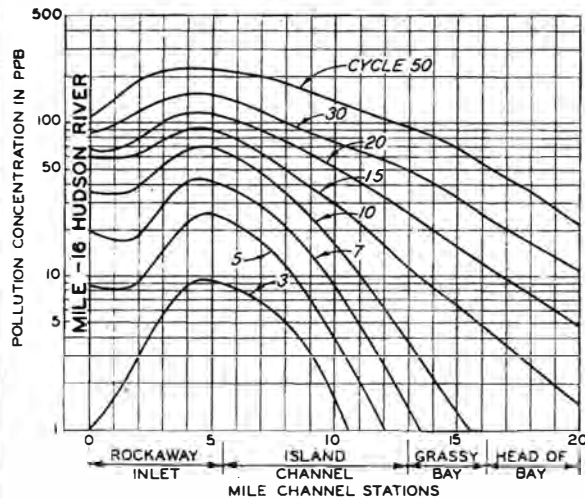
INTERSTATE SANITATION COMMISSION
 POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
 AT HIGH-WATER SLACK**
 PASSAIC VALLEY TREATMENT PLANT
 HIGH FRESH WATER INFLOW
 LOWER BAY-UPPER BAY-HUDSON RIVER AND EAST RIVER



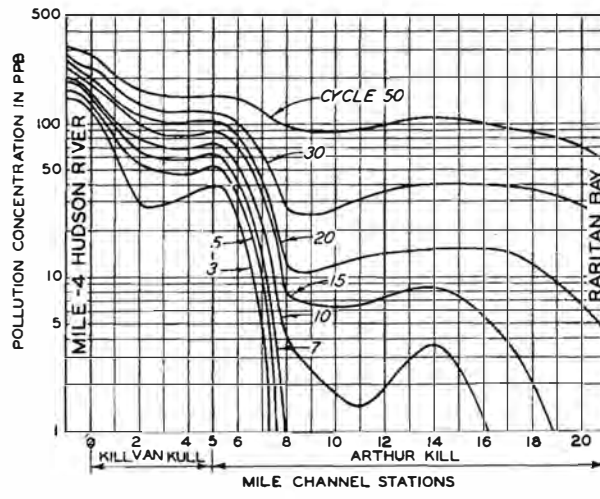
NEWARK BAY AND HACKENSACK RIVER



RARITAN BAY



JAMAICA BAY

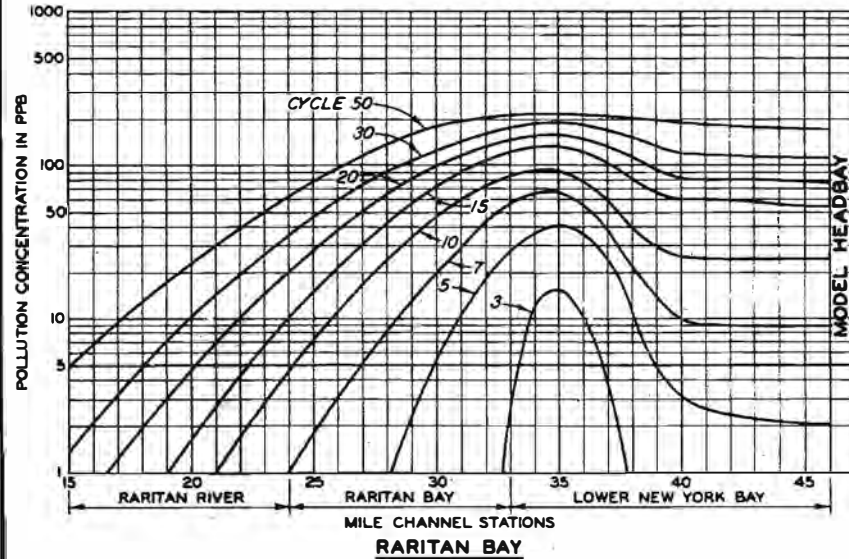
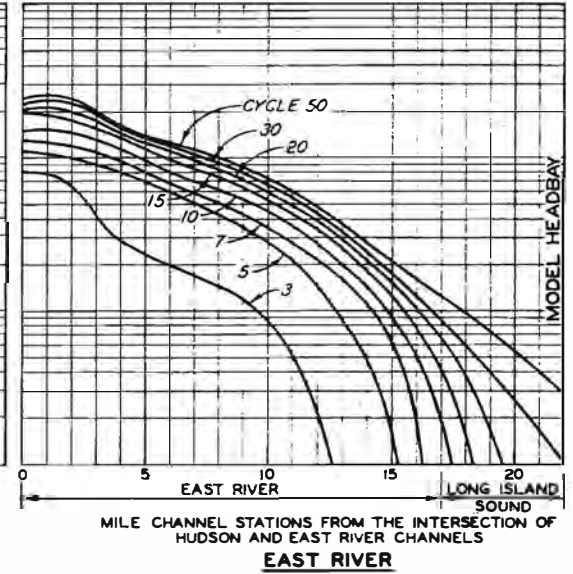
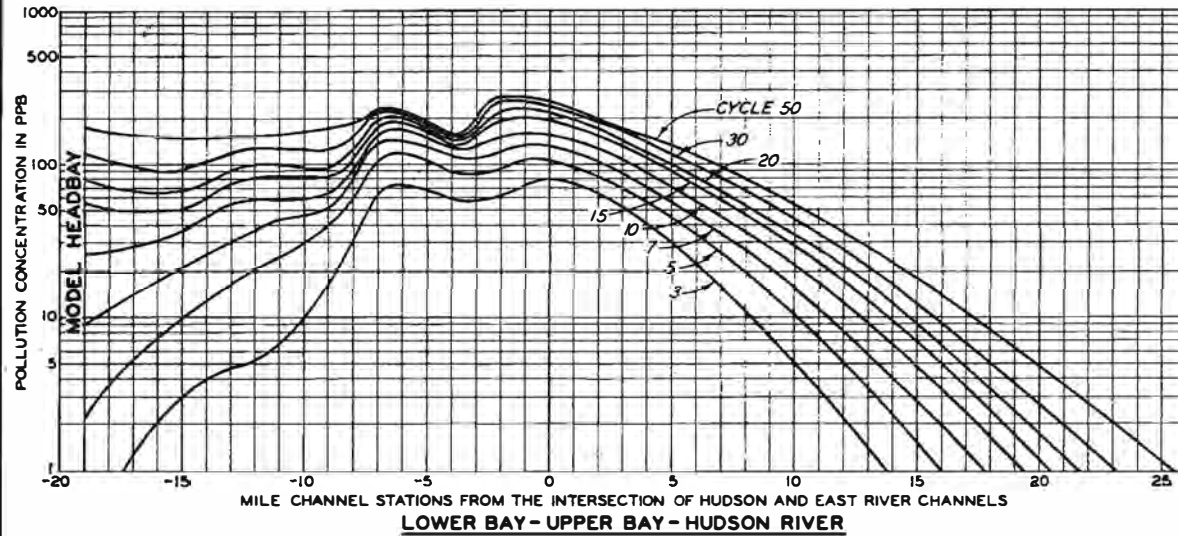


THE KILLS

NOTE: PLANT DISCHARGE=200 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 24,000 CFS AND 3530 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES

**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK**
PASSAIC VALLEY TREATMENT PLANT
HIGH FRESH WATER INFLOW
NEWARK BAY, HACKENSACK RIVER,
RARITAN BAY, JAMAICA BAY, AND THE KILLS



NOTE: PLANT DISCHARGE = 94 MGD AT 100,000 PPB.
HUDSON RIVER AND RARITAN RIVER INFLOWS
= 12,000 CFS AND 1770 CFS RESPECTIVELY.

INTERSTATE SANITATION COMMISSION
POLLUTION STUDIES
**DISTRIBUTION OF POLLUTION
AT HIGH-WATER SLACK
OWL'S HEAD TREATMENT PLANT**
NO DIKES IN MODEL
LOWER BAY-UPPER BAY-HUDSON RIVER,
EAST RIVER, AND RARITAN BAY

