



2023 FIVE YEAR MOVING AVERAGE STATUSREPORT

April, 2023

MEMBER	Fractional Share of the Contribution ("Percent Share")						5 Year Moving Average	
	MEASURING YEAR (Oct-Sep)						Current Average (2)	Previous Average (3)
	2018	2019	2020	2021	2022	2023 (1)		
Clark	10.17%	8.33%	8.02%	7.49%	7.88%	6.66%	7.68%	8.38%
Cranford	7.25%	9.95%	11.08%	11.79%	10.19%	9.20%	10.44%	10.05%
Garwood	2.74%	2.33%	2.22%	2.23%	3.19%	4.20%	2.83%	2.54%
Kenilworth	4.09%	5.30%	3.62%	3.59%	3.62%	3.72%	3.97%	4.04%
Mountainside	3.68%	2.90%	2.44%	2.35%	2.71%	2.76%	2.63%	2.82%
Rahway	14.04%	18.01%	22.27%	21.64%	17.77%	18.50%	19.64%	18.75%
Roselle Park	0.84%	1.61%	2.08%	1.73%	0.87%	1.21%	1.50%	1.42%
Scotch Plains	5.88%	4.56%	4.23%	3.86%	4.01%	4.45%	4.22%	4.51%
Springfield	9.28%	9.28%	9.25%	9.20%	10.34%	10.39%	9.69%	9.47%
Westfield	14.79%	15.64%	14.32%	14.46%	15.74%	15.24%	15.08%	14.99%
Woodbridge	27.24%	22.09%	20.47%	21.66%	23.68%	23.67%	22.31%	23.03%
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.99%	100.00%

Notes:

- (1) Figures computed based on Flow, BOD and TSS data received as of reporting month.
- (2) Five year moving average consisting of 2019, 2020, 2021, 2022, and month to date for 2023
- (3) Five year moving average consisting of 2018, 2019, 2020, 2021, and 2022



2023 Town Annual Percent Share

April, 2023

Member	Average Daily Flow (MGD)		Biochemical Oxygen Demand (Tons/Day)		Total Suspended Solids (Tons/Day)		Annual Percent Share	
	2022	2023	2022	2023	2022	2023	2022	2023
Clark	1.49	1.32	1.38	1.38	1.20	1.27	7.88%	6.66%
Cranford	2.54	2.44	1.57	1.46	1.87	1.79	10.19%	9.20%
Garwood	0.76	1.06	0.47	0.69	0.56	0.83	3.19%	4.20%
Kenilworth	0.85	0.94	0.53	0.61	0.63	0.74	3.62%	3.72%
Mountainside	0.67	0.73	0.42	0.44	0.50	0.54	2.71%	2.76%
Rahway	4.08	4.52	2.63	3.12	3.11	3.70	17.77%	18.50%
Roselle Park	0.20	0.31	0.13	0.20	0.17	0.24	0.87%	1.21%
Scotch Plains	1.01	1.17	0.62	0.71	0.74	0.87	4.01%	4.45%
Springfield	2.45	2.64	1.53	1.70	1.82	2.06	10.34%	10.39%
Westfield	3.50	3.64	2.17	2.59	2.58	3.09	15.74%	15.24%
Woodbridge (1)(2)	5.64	6.01	3.81	3.84	4.55	4.73	23.68%	23.67%
Totals:	23.20	24.77	15.26	16.74	17.73	19.86	100.00%	100.00%

Equations:

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

- (a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)
- (b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)
- (c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

Notes:

- (1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement
- (2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement



2023 Intermunicipal Adjustments Report

April, 2023

Member	Dwelling Unit Quantity			Average Daily Flow (MGD)			Average BOD (Tons/Day)			Average TSS (Tons/Day)		
	Bill To	Credit To	Total Adjustment	Average Flow	Adjustment (a)	Final Flow	Average BOD	Adjustment (b)	Final BOD	Average TSS	Adjustment (c)	Final TSS
Clark	479	0	479	1.23	0.0958	1.32	1.30	0.0799	1.38	1.19	0.0799	1.27
Cranford	242	1,092	-850	2.61	-0.1700	2.44	1.60	-0.1418	1.46	1.93	-0.1418	1.79
Garwood	54	110	-56	1.07	-0.0112	1.06	0.70	-0.0093	0.69	0.84	-0.0093	0.83
Kenilworth	62	38	24	0.93	0.0048	0.94	0.61	0.0040	0.61	0.74	0.0040	0.74
Mountainside	106	339	-233	0.77	-0.0466	0.73	0.48	-0.0389	0.44	0.58	-0.0389	0.54
Rahway	13	15	-2	4.52	-0.0004	4.52	3.12	-0.0003	3.12	3.70	-0.0003	3.70
Roselle Park	38	117	-79	0.32	-0.0158	0.31	0.21	-0.0132	0.20	0.25	-0.0132	0.24
Scotch Plains	66	413	-347	1.24	-0.0694	1.17	0.77	-0.0579	0.71	0.93	-0.0579	0.87
Springfield	0	187	-187	2.67	-0.0374	2.64	1.73	-0.0312	1.70	2.09	-0.0312	2.06
Westfield	1,425	175	1,250	3.39	0.2500	3.64	2.38	0.2085	2.59	2.88	0.2085	3.09
Woodbridge (1)(2)	10	9	1	6.51	-0.4998	6.01	4.26	-0.4163	3.84	5.15	-0.4163	4.73
Totals:	2,495	2,495	0	25.27	-0.5000	24.77	17.16	-0.4165	16.74	20.28	-0.4165	19.86

Equations:

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

(a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)

(b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

(c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

Notes:

(1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement

(2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement



Member BOD and TSS Loading Contribution

April, 2023

Member	Average Daily Industrial Loading (1)		Average Daily Flow (MGD)	Inter-Mun Adj (2) (MGD)	Adj. Avg. Daily Flow (MGD)	Member Contribution			
	BOD (Tons/Day)	TSS (Tons/Day)				Domestic Loading		Total Loading	
						BOD (Tons/Day)	TSS (Tons/Day)	BOD (Tons/Day)	TSS (Tons/Day)
Clark	0.43	0.14	1.23	0.0958	1.32	0.87	1.05	1.30	1.19
Cranford	0.00	0.00	2.61	-0.1700	2.44	1.60	1.93	1.60	1.93
Garwood	0.00	0.00	1.07	-0.0112	1.06	0.70	0.84	0.70	0.84
Kenilworth	0.00	0.00	0.93	0.0048	0.94	0.61	0.74	0.61	0.74
Mountainside	0.00	0.00	0.77	-0.0466	0.73	0.48	0.58	0.48	0.58
Rahway	0.16	0.12	4.52	-0.0004	4.52	2.96	3.58	3.12	3.70
Roselle Park	0.01	0.01	0.32	-0.0158	0.31	0.20	0.24	0.21	0.25
Scotch Plains	0.00	0.00	1.24	-0.0694	1.17	0.77	0.93	0.77	0.93
Springfield	0.00	0.00	2.67	-0.0374	2.64	1.73	2.09	1.73	2.09
Westfield	0.00	0.00	3.39	0.2500	3.64	2.38	2.88	2.38	2.88
Woodbridge	0.00	0.00	6.51	0.0002	6.51	4.26	5.15	4.26	5.15
Totals:	0.60	0.27	25.27	0.00	25.27	16.56	20.00	17.16	20.28

Notes:

- (1) As measured and reported by the RVSA SIU IPP Industrial Loading
- (2) Does not include the 0.50 MGD Woodbridge Credit



2023 Plant Influent Loading April, 2023

2022			2023										Average T/D
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		

Plant Influent Flow and Sample Data

Avg. Daily Flow (MGD) (1)	23.31	21.29	27.71	29.9	22.31	27.81	24.01							25.19
Avg. BOD (mg/L) (2)	164	189	160	149	173	143	176							165
Avg. TSS (mg/L) (2)	187	235	197	188	192	166	196							194

Total Influent Loading (a)(b)

BOD (Tons/Day)	15.94	16.78	18.49	18.58	16.09	16.58	17.62							17.16
TSS (Tons/Day)	18.18	20.86	22.76	23.44	17.86	19.25	19.62							20.28

Total Industrial Contribution (3)

IPP BOD (Tons/Day)	0.60
IPP TSS (Tons/Day)	0.28

Total Domestic Influent Loading

BOD (Tons/Day)	16.56
TSS (Tons/Day)	20.00

Equations:

(a) $BOD \text{ Loading (Tons/Day)} = \text{Average Daily Flow (MGD)} \times \text{Avg BOD (mg/L)} \times (8.34 \text{ lbs/gal}) / (2000 \text{ lbs/ton})$

(b) $TSS \text{ Loading (Tons/Day)} = \text{Average Daily Flow (MGD)} \times \text{Avg TSS (mg/L)} \times (8.34 \text{ lbs/gal}) / (2000 \text{ lbs/ton})$

Notes:

(1) Average Daily Flow = RV12 + RV14 + RV31

(2) BOD and TSS Concentrations measured at the RVSA Raw Influent Sampler as reported to the NJDEP

(3) As measured and reported by the RVSA SIU IPP Industrial Loading



2023 Average Daily Flow Report April, 2023

Meter #	2022			2023									Average To Date
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
RV01	2.21	2.21	2.67	2.97	2.67	3.10	2.88						2.67
RV02	3.11	3.01	3.89	4.12	3.77	4.24	3.82						3.71
RV03	1.45	1.41	1.88	1.97	1.56	1.99	1.74						1.72
RV04	0.24	0.19	0.26	0.27	0.21	0.27	0.19						0.23
RV05	0.26	0.22	0.29	0.30	0.20	0.26	0.24						0.25
RV06	0.15	0.14	0.20	0.18	0.13	0.16	0.14						0.16
RV07	0.68	0.61	0.65	0.69	0.66	0.76	0.64						0.67
RV09	3.54	3.20	4.27	4.67	3.70	4.56	3.87						3.97
RV10	7.33	6.78	8.99	9.61	7.92	9.42	8.51						8.37
RV11	11.40	10.47	14.31	15.49	12.07	15.27	12.70						13.10
RV12	5.31	4.47	6.04	6.69	4.92	5.98	5.29						5.53
RV13	0.65	0.58	0.55	0.59	0.64	0.83	0.70						0.65
RV14	17.93	16.73	21.45	22.78	17.17	21.60	18.07						19.39
RV15	0.92	0.63	1.09	1.27	0.73	1.18	0.91						0.96
RV16A	23.40	21.39	27.84	29.94	22.35	27.90	24.31						25.30
RV17	0.46	0.43	0.49	0.50	0.40	0.47	0.42						0.45
RV18	0.82	0.82	0.93	0.99	0.85	0.98	0.91						0.90
RV19	0.32	0.31	0.37	0.37	0.32	0.36	0.33						0.34
RV20	0.70	0.72	0.82	0.84	0.76	0.80	0.76						0.77
RV27	0.19	0.00	0.00	0.69	0.00	0.32	1.21						0.34
RV28	0.16	0.00	0.25	0.11	0.00	0.27	0.17						0.14
RV29	1.20	1.18	1.29	1.36	1.22	1.33	1.18						1.25
RV30	0.25	0.23	0.26	0.27	0.26	0.29	0.27						0.26
RV31	0.07	0.09	0.22	0.43	0.22	0.24	0.65						0.27
RV32	5.82	5.30	6.41	6.83	5.24	6.44	5.50						5.93



2023 Average Industrial TSS Loading Report

April, 2023

Town	SIU Name	Average Daily TSS Loading (Tons/Day)											Average T/D	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		Sep
Clark	Kerry 1	0.016	0.096	0.002	0.014	0.006	0.006							0.0233
	Kerry 2	0.011	0.001	0.009	0.003	0.005	0.005							0.0057
	Kerry 3	0.016	0.021	0.012	0.033	0.007	0.018							0.0178
	Kerry 4	0.008	0.028	0.051	0.139	0.289	0.041							0.0927
Clark Total:													0.140	
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000							0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000							0.0000
Kenilworth Total:													0.000	
Mountainside	American Aluminum	0.001	0.001	0.001	0.001	0.002	0.001							0.0012
Mountainside Total:													0.001	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.003	0.004	0.004	0.002	0.005	0.004							0.0037
	Guest Packaging 03	0.001	0.002	0.000	0.000	0.001	0.000							0.0007
	Merck 007	0.033	0.092	0.076	0.066	0.172	0.030							0.0782
	Merck 012	0.013	0.011	0.004	0.001	0.015	0.027							0.0118
	Quala Systems	0.018		0.009	0.031	0.015	0.044							0.0234
	Suez Water Rahway	0.007	0.001	0.001	0.001	0.014	0.001							0.0042
Rahway Total:													0.122	
Roselle Park	Crossfield Products		0.000		0.003									0.0015
	Merck Kenilworth	0.009	0.014	0.006	0.009	0.012	0.011							0.0102
Roselle Park Total:													0.012	
Springfield	Valcor Engineering	0.004	0.000	0.000	0.000	0.004	0.001							0.0015
Springfield Total:													0.002	
Woodbridge	BASF 1	0.000	0.002	0.003	0.002	0.001	0.002							0.0017
	BASF 2	0.001	0.002	0.005	0.001	0.006	0.004							0.0032
	Gentek Building Products	0.000	0.000	0.000	0.000	0.000	0.000							0.0000
Woodbridge Total:													0.005	

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.



2023 Average Industrial BOD Loading Report

April, 2023

Town	SIU Name	Average Daily BOD Loading (Tons/Day)												Average T/D
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Clark	Kerry 1	0.005	0.032	0.001	0.003	0.001	0.001							0.0072
	Kerry 2	0.031	0.023	0.046	0.021	0.039	0.177							0.0562
	Kerry 3	0.161	0.120	0.188	0.148	0.038	0.164							0.1365
	Kerry 4	0.209	0.093	0.193	0.291	0.432	0.147							0.2275
Clark Total:													0.427	
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000							0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000							0.0000
Kenilworth Total:													0.000	
Mountainside	American Aluminum	0.002	0.001	0.000	0.001	0.001	0.003							0.0013
Mountainside Total:													0.001	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.010	0.006	0.009	0.012	0.010	0.017							0.0107
	Guest Packaging 03	0.003	0.007	0.004	0.003	0.003	0.002							0.0037
	Merck 007	0.015	0.021	0.028	0.036	0.024	0.004							0.0213
	Merck 012	0.019	0.005	0.003	0.002	0.003	0.007							0.0065
	Quala Systems	0.101		0.051	0.261	0.063	0.121							0.1194
	Suez Water Rahway	0.001	0.004	0.003	0.000	0.005	0.001							0.0023
Rahway Total:													0.164	
Roselle Park	Crossfield Products		0.001		0.000									0.0005
	Merck Kenilworth	0.010	0.009	0.008	0.009	0.006	0.009							0.0085
Roselle Park Total:													0.009	
Springfield	Valcor Engineering	0.006	0.001	0.001	0.000	0.004	0.003							0.0025
Springfield Total:													0.003	
Woodbridge	BASF 1	0.001	0.001	0.001	0.001	0.000	0.001							0.0008
	BASF 2	0.001	0.001	0.001	0.001	0.002	0.001							0.0012
	Gentek Building Products	0.000	0.001	0.000	0.000	0.000	0.000							0.0002
Woodbridge Total:													0.002	

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.