



2023 FIVE YEAR MOVING AVERAGE STATUSREPORT November, 2022

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%	6.03%	7.55%	8.38%
Cranford	7.25%	9.95%	11.08%	11.79%	10.19%	8.79%	10.36%	10.05%
Garwood	2.74%	2.33%	2.22%	2.23%	3.19%	3.66%	2.73%	2.54%
Kenilworth	4.09%	5.30%	3.62%	3.59%	3.62%	3.58%	3.94%	4.04%
Mountainside	3.68%	2.90%	2.44%	2.35%	2.71%	2.86%	2.65%	2.82%
Rahway	14.04%	18.01%	22.27%	21.64%	17.77%	21.43%	20.22%	18.75%
Roselle Park	0.84%	1.61%	2.08%	1.73%	0.87%	1.30%	1.52%	1.42%
Scotch Plains	5.88%	4.56%	4.23%	3.86%	4.01%	4.59%	4.25%	4.51%
Springfield	9.28%	9.28%	9.25%	9.20%	10.34%	9.74%	9.56%	9.47%
Westfield	14.79%	15.64%	14.32%	14.46%	15.74%	14.75%	14.98%	14.99%
Woodbridge	27.24%	22.09%	20.47%	21.66%	23.68%	23.27%	22.23%	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



2022 Town Annual Percent Share November, 2022

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	1.05	1.38	1.24	1.20	1.05	7.88%	6.03%
Cranford	2.54	2.07	1.57	1.32	1.87	1.65	10.19%	8.79%
Garwood	0.76	0.81	0.47	0.57	0.56	0.70	3.19%	3.66%
Kenilworth	0.85	0.79	0.53	0.56	0.63	0.69	3.62%	3.58%
Mountainside	0.67	0.66	0.42	0.43	0.50	0.54	2.71%	2.86%
Rahway	4.08	4.64	2.63	3.43	3.11	4.11	17.77%	21.43%
Roselle Park	0.20	0.29	0.13	0.20	0.17	0.25	0.87%	1.30%
Scotch Plains	1.01	1.07	0.62	0.69	0.74	0.87	4.01%	4.59%
Springfield	2.45	2.17	1.53	1.52	1.82	1.86	10.34%	9.74%
Westfield	3.50	3.09	2.17	2.39	2.58	2.89	15.74%	14.75%
Woodbridge (1)(2)	5.64	5.18	3.81	3.59	4.55	4.51	23.68%	23.27%
Totals:	23.20	21.83	15.26	15.94	17.73	19.12	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



2022 Intermunicipal Adjustments Report

November, 2022

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	0.96	0.0958	1.05	1.16	0.0799	1.24	0.97	0.0799	1.05
Cranford	242	1,092	-850	2.24	-0.1700	2.07	1.46	-0.1418	1.32	1.79	-0.1418	1.65
Garwood	54	110	-56	0.82	-0.0112	0.81	0.58	-0.0093	0.57	0.71	-0.0093	0.70
Kenilworth	62	38	24	0.78	0.0048	0.79	0.56	0.0040	0.56	0.69	0.0040	0.69
Mountainside	106	339	-233	0.71	-0.0466	0.66	0.47	-0.0389	0.43	0.58	-0.0389	0.54
Rahway	13	15	-2	4.64	-0.0004	4.64	3.43	-0.0003	3.43	4.11	-0.0003	4.11
Roselle Park	38	117	-79	0.31	-0.0158	0.29	0.21	-0.0132	0.20	0.26	-0.0132	0.25
Scotch Plains	66	413	-347	1.14	-0.0694	1.07	0.75	-0.0579	0.69	0.93	-0.0579	0.87
Springfield	0	187	-187	2.21	-0.0374	2.17	1.55	-0.0312	1.52	1.89	-0.0312	1.86
Westfield	1,425	175	1,250	2.84	0.2500	3.09	2.18	0.2085	2.39	2.68	0.2085	2.89
Woodbridge (1)(2)	10	9	1	5.68	-0.4998	5.18	4.01	-0.4163	3.59	4.93	-0.4163	4.51
Totals:	2,495	2,495	0	22.33	-0.5000	21.83	16.36	-0.4165	15.94	19.54	-0.4165	19.12

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 November, 2022

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	0.41	0.05	0.96	0.0958	1.05	0.75	0.92	1.16	0.97
Cranford	0.00	0.00	2.24	-0.1700	2.07	1.46	1.79	1.46	1.79
Garwood	0.00	0.00	0.82	-0.0112	0.81	0.58	0.71	0.58	0.71
Kenilworth	0.00	0.00	0.78	0.0048	0.79	0.56	0.69	0.56	0.69
Mountainside	0.00	0.00	0.71	-0.0466	0.66	0.47	0.58	0.47	0.58
Rahway	0.15	0.08	4.64	-0.0004	4.64	3.28	4.03	3.43	4.11
Roselle Park	0.01	0.01	0.31	-0.0158	0.29	0.20	0.25	0.21	0.26
Scotch Plains	0.00	0.00	1.14	-0.0694	1.07	0.75	0.93	0.75	0.93
Springfield	0.01	0.00	2.21	-0.0374	2.17	1.54	1.89	1.55	1.89
Westfield	0.00	0.00	2.84	0.2500	3.09	2.18	2.68	2.18	2.68
Woodbridge	0.00	0.00	5.68	0.0002	5.68	4.01	4.93	4.01	4.93
Totals:	0.58	0.14	22.33	0.00	22.33	15.79	19.38	16.36	19.54

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 November, 2022

2022			2023									Average TSS
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											22.30
Avg. BOD (mg/L) (2)	164	189											176
Avg. TSS (mg/L) (2)	187	235											211

Total Influent Loading (a)(b)

BOD (Tons/Day)	15.94	16.78											16.36
TSS (Tons/Day)	18.18	20.86											19.52

Total Industrial Contribution (3)

IPP BOD (Tons/Day)	0.58
IPP TSS (Tons/Day)	0.14

Total Domestic Influent Loading

BOD (Tons/Day)	15.79
TSS (Tons/Day)	19.38

Equations:

- (a) BOD Loading (Tons/Day) = Average Daily Flow (MGD) x Avg BOD (mg/L) x (8.34 lbs/gal) / (2000 lbs/ton)
- (b) TSS Loading (Tons/Day) = Average Daily Flow (MGD) x Avg TSS (mg/L) x (8.34 lbs/gal) / (2000 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 November, 2022

Meter #	2022			2023									Average To Date
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
RV01	2.21	2.21											2.21
RV02	3.11	3.01											3.06
RV03	1.45	1.41											1.43
RV04	0.24	0.19											0.22
RV05	0.26	0.22											0.24
RV06	0.15	0.14											0.14
RV07	0.68	0.61											0.64
RV09	3.54	3.20											3.37
RV10	7.33	6.78											7.05
RV11	11.40	10.47											10.93
RV12	5.31	4.47											4.89
RV13	0.65	0.58											0.62
RV14	17.93	16.73											17.33
RV15	0.92	0.63											0.77
RV16A	23.40	21.39											22.39
RV17	0.46	0.43											0.45
RV18	0.82	0.82											0.82
RV19	0.32	0.31											0.32
RV20	0.70	0.72											0.71
RV27	0.19	0.00											0.09
RV28	0.16	0.00											0.08
RV29	1.20	1.18											1.19
RV30	0.25	0.23											0.24
RV31	0.07	0.09											0.08
RV32	5.82	5.30											5.56



2023 Average Industrial TSS Loading Report

November, 2022

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												0.0160
	Kerry 2	0.011												0.0110
	Kerry 3	0.016												0.0160
	Kerry 4	0.008												0.0080
Clark Total:													0.051	
Kenilworth	B&M Finishers	0.000												0.0000
	Kenilworth Anodizing	0.000												0.0000
Kenilworth Total:													0.000	
Mountainside	American Aluminum	0.001												0.0010
Mountainside Total:													0.001	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.003												0.0030
	Guest Packaging 03	0.001												0.0010
	Merck 007	0.033												0.0330
	Merck 012	0.013												0.0130
	Quala Systems	0.018												0.0180
	Suez Water Rahway	0.007												0.0070
Rahway Total:													0.075	
Roselle Park	Crossfield Products													0.0000
	Merck Kenilworth	0.009												0.0090
Roselle Park Total:													0.009	
Springfield	Valcor Engineering	0.004												0.0040
Springfield Total:													0.004	
Woodbridge	BASF 1	0.000												0.0000
	BASF 2	0.001												0.0010
	Gentek Building Products	0.000												0.0000
Woodbridge Total:													0.001	

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



2023 Average Industrial BOD Loading Report

November, 2022

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												0.0050
	Kerry 2	0.031												0.0310
	Kerry 3	0.161												0.1610
	Kerry 4	0.209												0.2090
Clark Total:													0.406	
Kenilworth	B&M Finishers	0.000												0.0000
	Kenilworth Anodizing	0.000												0.0000
Kenilworth Total:													0.000	
Mountainside	American Aluminum	0.002												0.0020
Mountainside Total:													0.002	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.010												0.0100
	Guest Packaging 03	0.003												0.0030
	Merck 007	0.015												0.0150
	Merck 012	0.019												0.0190
	Quala Systems	0.101												0.1010
	Suez Water Rahway	0.001												0.0010
Rahway Total:													0.149	
Roselle Park	Crossfield Products													0.0000
	Merck Kenilworth	0.010												0.0100
Roselle Park Total:													0.010	
Springfield	Valcor Engineering	0.006												0.0060
Springfield Total:													0.006	
Woodbridge	BASF 1	0.001												0.0010
	BASF 2	0.001												0.0010
	Gentek Building Products	0.000												0.0000
Woodbridge Total:													0.002	

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