

## 2017 FIVE YEAR MOVING AVERAGE STATUS REPORT

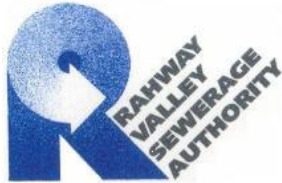
December, 2016

MEMBER	ASSESSMENT ALLOCATION (PERCENT)						
	MEASURING YEAR					FIVE YEAR AVERAGE (2)	LAST ASSESSMENT (3)
	2013	2014	2015	2016	2017 (1)		
Clark	9.24%	9.97%	7.24%	6.02%	2.30%	6.95%	8.44%
Cranford	5.39%	6.29%	8.99%	5.98%	7.43%	6.82%	6.67%
Garwood	2.41%	3.43%	2.88%	1.89%	2.85%	2.69%	2.60%
Kenilworth	2.16%	2.36%	2.61%	5.33%	6.20%	3.73%	2.88%
Mountainside	3.59%	3.76%	3.39%	3.89%	4.13%	3.75%	3.58%
Rahway	20.44%	14.99%	14.41%	18.87%	14.49%	16.64%	17.42%
Roselle Park	2.03%	1.80%	1.38%	1.62%	1.75%	1.72%	1.85%
Scotch Plains	5.66%	5.80%	7.32%	4.62%	5.32%	5.74%	5.74%
Springfield	10.80%	10.84%	11.08%	9.97%	10.24%	10.59%	10.39%
Westfield	12.58%	13.94%	13.49%	18.87%	16.61%	15.10%	14.36%
Woodbridge	25.70%	26.82%	27.21%	22.94%	28.68%	26.27%	26.07%

**Notes:**

- (1) = Figures computed based on Flow, BOD and TSS data received as of reporting month.
- (2) = Five year moving average consisting of 2013, 2014, 2015, 2016, and month to date for 2017
- (3) = Five year moving average consisting of 2012, 2013, 2014, 2015, and 2016

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## 2017 TOWN ASSESSMENT BREAKDOWN SUMMARY

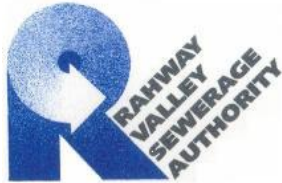
December, 2016

MEMBER	Up to Date Average Daily Flow (MGD)		Biochemical Oxygen Demand (tons/day)		Total Suspended Solids (tons/day)		Percent of Total Cost of Operation to Date	
	2016	2017	2016	2017	2016	2017	2016	2017
Clark	1.04	0.97	0.92	0.42	1.73	-0.07	6.02%	2.30%
Cranford	1.69	1.23	0.79	1.07	1.22	1.68	5.98%	7.43%
Garwood	0.56	0.60	0.35	0.52	0.24	0.42	1.89%	2.85%
Kenilworth	0.98	1.02	1.09	1.15	1.13	1.13	5.33%	6.20%
Mountainside	0.75	0.73	0.74	0.70	0.86	0.78	3.89%	4.13%
Rahway	4.57	4.89	2.70	1.74	4.35	1.55	18.87%	14.49%
Roselle Park	0.45	0.39	0.23	0.16	0.31	0.41	1.62%	1.75%
Scotch Plains	0.97	0.97	0.89	0.93	0.93	0.95	4.62%	5.32%
Springfield	2.24	1.96	1.85	1.70	1.95	1.85	9.97%	10.24%
Westfield	3.71	3.05	3.42	2.86	4.30	3.00	18.87%	16.61%
Woodbridge	4.98	4.79	4.45	4.92	4.41	5.60	22.94%	28.68%
<b>TOTAL:</b>	<b>21.94</b>	<b>20.60</b>	<b>17.43</b>	<b>16.17</b>	<b>21.43</b>	<b>17.30</b>	<b>100.00%</b>	<b>100.00%</b>

**Notes:**

- (1): Woodbridge MGD figure represents flow after 0.50 MGD flow credit is applied
  - (2): Woodbridge TSS figure represents loading after 833 lbs/day credit is applied
  - (3): All inter-municipality adjustments have been applied
- Conversion Factor: Tons/day = Daily Average Load (lbs/day)/2000

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## 2017 INTER-MUNICIPAL ADJUSTMENTS REPORT

December, 2016

MEMBER	Dwelling Unit Qty			Average Daily Flow (MGD)			Average BOD (Tons)			Average TSS (Tons)		
	Bill To	Credit To	Total Adj.	Average Flow	Adjustment	Final Flow	Average BOD	Adjustment	Final BOD	Average TSS	Adjustment	Final TSS
Clark	479	0	479	0.87	0.0958	0.97	0.34	0.0799	0.42	-0.15	0.0799	-0.07
Cranford	242	1092	-850	1.4	-0.1700	1.23	1.21	-0.1418	1.07	1.82	-0.1418	1.68
Garwood	54	110	-56	0.61	-0.0112	0.60	0.53	-0.0093	0.52	0.43	-0.0093	0.42
Kenilworth	62	38	24	1.02	0.0048	1.02	1.15	0.0040	1.15	1.13	0.0040	1.13
Mountainside	105	339	-234	0.78	-0.0468	0.73	0.74	-0.0390	0.70	0.82	-0.0390	0.78
Rahway	13	15	-2	4.89	-0.0004	4.89	1.74	-0.0003	1.74	1.55	-0.0003	1.55
Roselle Park	38	117	-79	0.41	-0.0158	0.39	0.17	-0.0132	0.16	0.42	-0.0132	0.41
Scotch Plains	66	413	-347	1.04	-0.0694	0.97	0.99	-0.0579	0.93	1.01	-0.0579	0.95
Springfield	0	186	-186	2	-0.0372	1.96	1.73	-0.0310	1.70	1.88	-0.0310	1.85
Westfield	1425	175	1250	2.8	0.2500	3.05	2.65	0.2085	2.86	2.79	0.2085	3.00
Woodbridge	10	9	1	5.29	-0.4998	4.79	4.92	0.0002	4.92	6.02	-0.4163	5.60
<b>TOTAL:</b>	<b>2494</b>	<b>2494</b>	<b>0</b>	<b>21.11</b>	<b>-0.5000</b>	<b>20.60</b>	<b>16.17</b>	<b>0.0000</b>	<b>16.17</b>	<b>17.72</b>	<b>-0.4165</b>	<b>17.30</b>

### Equations:

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

(1): Flow Adj: [Units] x (0.0002 MGD)

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

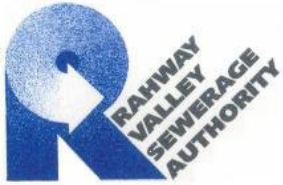
(3): TSS Adj: [Units] x (0.0002MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

### Notes:

(1): Woodbridge MGD adjustment includes a 0.50 MGD flow credit

(2): Woodbridge TSS adjustment includes an 833 lbs/day credit

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## 2017 AVERAGE DAILY FLOW REPORT

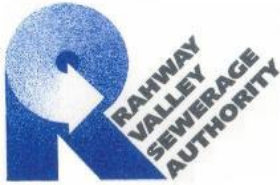
December, 2016

METER NO.:	2016			2017									Average To Date (2)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
RV01	1.88	1.97	2.13										2.00
RV02	3.13	3.27	3.40										3.27
RV03	1.25	1.23	1.47										1.31
RV04	0.16	0.18	0.22										0.18
RV05	0.24	0.26	0.29										0.26
RV06	0.42	0.17	0.19										0.26
RV07	0.50	0.51	0.59										0.53
RV09	2.83	3.12	3.47										3.14
RV10	5.99	6.23	7.02										6.41
RV11	9.12	9.97	10.97										10.02
RV12	4.17	4.63	5.03										4.61
RV13	0.45	0.47	0.61										0.51
RV14	14.47	15.98	18.92										16.46
RV15	0.60	0.69	0.76										0.68
RV17	0.35	0.43	0.42										0.40
RV18	0.73	0.74	0.74										0.73
RV19	0.27	0.30	0.36										0.31
RV20	0.73	0.76	0.85										0.78
RV29	0.95	1.03	1.22										1.07
RV30	0.12	0.13	0.15										0.13
RV31	0.04	0.05	0.04										0.04
Total Rainfall (inch)	1.90	4.43	2.59										8.92

Notes: (1) Meter RV31 measures flow through the Gravity Relief Sewer that would otherwise be metered through Meter RV14. Flows from Meter RV31 are therefore added to flows from Meter RV14 for purposes of user charge calculations.

(2) Rainfall figure represents total rainfall for the billing year.

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## 2017 METER SITE LOADING RATES

December, 2016

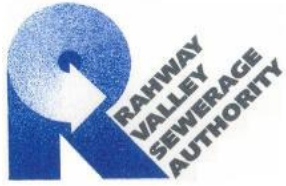
METER NO.:	Average Daily Flow Rate (MGD):	Biochemical Oxygen Demand (BOD)			Total Suspended Solids (TSS)		
		Average (mg/L) (1)	Loading (lbs/day)	Loading (Tons/day)	Average (mg/L) (1)	Loading (lbs/day)	Loading (Tons/day)
RV01	2.00	208	3469	1.73	226	3770	1.88
RV02	3.27	222	6054	3.03	247	6736	3.37
RV03	1.31	221	2415	1.21	209	2283	1.14
RV04	0.18	243	365	0.18	226	339	0.17
RV05	0.26	210	455	0.23	181	392	0.20
RV06	0.26	246	533	0.27	312	677	0.34
RV07	0.53	267	1180	0.59	207	915	0.46
RV09	3.14	226	5918	2.96	236	6180	3.09
RV10	6.41	218	11654	5.83	254	13579	6.79
RV11	10.02	215	17967	8.98	229	19137	9.57
RV12	4.61	222	8535	4.27	278	10688	5.34
RV13	0.51	179	761	0.38	197	838	0.42
RV14	16.46	173	23749	11.87	180	24710	12.35
RV15	0.68	230	1304	0.65	239	1355	0.68
RV17	0.40	87	290	0.15	98	327	0.16
RV18	0.73	247	1504	0.75	259	1577	0.79
RV19	0.31	182	471	0.24	170	440	0.22
RV20	0.78	227	1477	0.74	253	1646	0.82
RV29	1.07	193	1722	0.86	216	1928	0.96
RV30	0.13	178	193	0.10	155	168	0.08
RV31	0.04	173	58	0.03	180	60	0.03

Notes: (1)Average loading adjusted to disregard the highest and lowest sample reading for each meter site.

(2)lbs/day = mg/L \* Average Daily Flow (MGD) \* 8.34

(3)Tons/day = lbs/day / 2000

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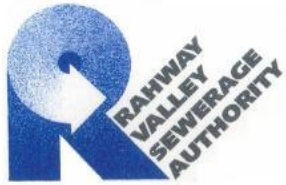


## 2017 Biochemical Oxygen Demand Concentration Results

December, 2016

Sample Date	BIOCHEMICAL OXYGEN DEMAND CONCENTRATION [mg/L]																				
	METER NO.																				
	RV01	RV02	RV03	RV04	RV05	RV06	RV07	RV09	RV10	RV11	RV12	RV13	RV14	RV15	RV17	RV18	RV19	RV20	RV29	RV30	
9/26/2016			344	238	188	584								254		240					
9/27/2016			180	231	134	294								243		245					
9/28/2016			192	315	188	434								236		300					
9/29/2016			151	434	204	381								240		212					
10/11/2016	215	243	217	180	239	204	238	210	215	221	200	161	192	230	146	258	197	245	228	102	
10/17/2016									191	232	253	177	196		85.2		172				
10/18/2016									212	221	210	158	189		83.1		153				
10/19/2016									260	279	334	148	212		97.2		207				
10/20/2016									320	252	178	158	178		66.8		171				
10/24/2016	263	217	336	271	210	263	202	238	185	214	191	385	195	228	67	259	420	224	195	284	
10/24/2016	255	254						368	235									211	520	348	
10/25/2016	299	291						339	278										326	287	362
10/26/2016	208	226						361	212										235	296	163
10/27/2016	168	152						327	173										253	220	146
11/8/2016	237	248	205	164	206	206	245	200	211	364	265	311	276	275	92	292	169	210	207	129	
11/21/2016			212	321	172	169			212						237		194				
11/21/2016	143	186	238	207	318	208	259	226	212	199	273	210	207	225	114	265	234	219	99	180	
11/22/2016			226	264	178	151			266						245		184				
11/28/2016			314	317	253	263			308						438		263				
11/29/2016			105	192	131	83.5			216						150		216				
12/5/2016									222	226	295	163	167		98.4		214				
12/6/2016									323	196	265	203	76.6		98.6		110				
12/7/2016	150	186	191	200	271	177	205	207	141	144	180	159	140	180	39	225	187	217	146	221	
12/7/2016									199	174	138	112	131		89.6		196				
12/8/2016									178	174	140	115	93		78.2		173				
12/12/2016	201	172						184											229	150	140
12/13/2016	198	238						310											210	60	163
12/14/2016	146	267						177											184	175	111
12/15/2016	219	227						301											203	186	124
12/19/2016	242	200	194	180	271	200	228	207	210	197	212	185	173	171	71	324	99	273	123	123	

Sample Date	BIOCHEMICAL OXYGEN DEMAND CONCENTRATION [mg/L]																			
	METER NO.																			
	RV01	RV02	RV03	RV04	RV05	RV06	RV07	RV09	RV10	RV11	RV12	RV13	RV14	RV15	RV17	RV18	RV19	RV20	RV29	RV30
Maximum	299	291	344	434	318	584	368	308	323	364	334	385	276	438	146	324	420	326	520	362
Minimum	143	152	105	164	131	84	177	173	141	144	138	112	77	150	39	184	99	184	60	102
Average	210	222	222	251	212	258	267	228	220	221	224	189	173	239	88	248	193	231	207	185
Adjusted Avg	209	222	221	243	210	246	267	226	218	215	222	179	173	230	87	247	182	227	193	178
Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14



## 2017 Total Suspended Solids Results

December, 2016

Sample Date	TOTAL SUSPENDED SOLIDS [mg/L]																			
	METER NO.																			
	RV01	RV02	RV03	RV04	RV05	RV06	RV07	RV09	RV10	RV11	RV12	RV13	RV14	RV15	RV17	RV18	RV19	RV20	RV29	RV30
9/26/2016			328	268	120	604								262		332				
9/27/2016			224	668	120	586								340		326				
9/28/2016			226	330	150	672								236		376				
9/29/2016			114	300	224	628								256		428				
10/11/2016	208	248	178	110	280	142	188	188	188	210	212	204	178	198	48	240	190	226	144	66
10/17/2016									244	320	396	302	258		104		150			
10/18/2016									330	318	312	176	228		112		190			
10/19/2016									370	284	394	194	248		158		180			
10/20/2016									480	290	316	182	202		96		246			
10/24/2016	236	224	248	174	160	190	228	288	176	204	416	272	206	230	64	256	256	230	150	124
10/24/2016	272	274					234	260										296	402	248
10/25/2016	320	264					216	250										302	284	354
10/26/2016	290	270					272	242										324	404	136
10/27/2016	224	118					248	212										384	316	226
11/8/2016	282	320	184	144	148	240	176	232	212	244	248	424	244	250	78	236	114	298	160	102
11/21/2016			208	312	130	140		234						208		196				
11/21/2016	140	182	236	180	296	294	206	246	194	256	204	180	168	234	104	192	154	252	90	156
11/22/2016			192	252	138	118		222						210		150				
11/28/2016			292	174	154	130		274						296		194				
11/29/2016			150	302	138	148		394						252		294				
12/5/2016									202	190	262	132	124		92		180			
12/6/2016									410	202	436	254	90		206		128			
12/7/2016	142	186	166	122	368	298	154	182	138	174	180	122	148	162	46	242	100	214	110	166
12/7/2016									270	178	218	122	168		150		210			
12/8/2016									310	192	180	116	84		110		192			
12/12/2016	214	222					144											240	236	130
12/13/2016	234	282					268											212	196	168
12/14/2016	118	322					144											234	210	124
12/15/2016	260	390					338											184	286	174
12/19/2016	214	172	200	158	236	340	148	170	140	184	168	222	156	240	60	226	70	210	92	106



Sample Date	TOTAL SUSPENDED SOLIDS [mg/L]																			
	METER NO.																			
	RV01	RV02	RV03	RV04	RV05	RV06	RV07	RV09	RV10	RV11	RV12	RV13	RV14	RV15	RV17	RV18	RV19	RV20	RV29	RV30
Maximum	320	390	328	668	368	672	338	394	480	320	436	424	258	340	206	428	256	384	404	354
Minimum	118	118	114	110	120	118	144	170	138	174	168	116	84	162	46	150	70	184	90	66
Average	225	248	210	250	190	324	212	242	262	232	282	207	179	241	102	263	169	258	220	163
Adjusted Avg	226	247	209	226	181	312	207	236	254	229	278	197	180	239	98	259	170	253	216	155
Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14