2017 FIVE YEAR MOVING AVERAGE STATUS REPORT

April, 2017

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%	3.30%	7.15%	8.44%
Cranford	5.39%	6.29%	8.99%	5.98%	7.46%	6.82%	6.67%
Garwood	2.41%	3.43%	2.88%	1.89%	3.26%	2.77%	2.60%
Kenilworth	2.16%	2.36%	2.61%	5.33%	5.59%	3.61%	2.88%
Mountainside	3.59%	3.76%	3.39%	3.89%	3.96%	3.72%	3.58%
Rahway	20.44%	14.99%	14.41%	18.87%	16.53%	17.05%	17.42%
Roselle Park	2.03%	1.80%	1.38%	1.62%	1.16%	1.60%	1.85%
Scotch Plains	5.66%	5.80%	7.32%	4.62%	4.79%	5.64%	5.74%
Springfield	10.80%	10.84%	11.08%	9.97%	9.63%	10.46%	10.39%
Westfield	12.58%	13.94%	13.49%	18.87%	16.76%	15.13%	14.36%
Woodbridge	25.70%	26.82%	27.21%	22.94%	27.57%	26.05%	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

April, 2017

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	1.13	0.92	0.65	1.73	0.32	6.02%	3.30%
Cranford	1.69	1.93	0.79	1.20	1.22	1.47	5.98%	7.46%
Garwood	0.56	0.71	0.35	0.65	0.24	0.61	1.89%	3.26%
Kenilworth	0.98	1.20	1.09	1.11	1.13	1.07	5.33%	5.59%
Mountainside	0.75	0.77	0.74	0.79	0.86	0.81	3.89%	3.96%
Rahway	4.57	5.82	2.70	2.33	4.35	2.45	18.87%	16.53%
Roselle Park	0.45	0.38	0.23	0.10	0.31	0.26	1.62%	1.16%
Scotch Plains	0.97	1.05	0.89	0.93	0.93	0.92	4.62%	4.79%
Springfield	2.24	2.17	1.85	1.79	1.95	1.89	9.97%	9.63%
Westfield	3.71	3.82	3.42	3.19	4.30	3.18	18.87%	16.76%
Woodbridge	4.98	5.91	4.45	5.12	4.41	5.64	22.94%	27.57%
TOTAL:	21.94	24.89	17.43	17.86	21.43	18.62	100.00%	100.01%

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

April, 2017

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	1.03	0.0958	1.13	0.57	0.0799	0.65	0.24	0.0799	0.32
Cranford	242	1092	-850	2.1	-0.1700	1.93	1.34	-0.1418	1.20	1.61	-0.1418	1.47
Garwood	54	110	-56	0.72	-0.0112	0.71	0.66	-0.0093	0.65	0.62	-0.0093	0.61
Kenilworth	62	38	24	1.2	0.0048	1.20	1.11	0.0040	1.11	1.07	0.0040	1.07
Mountainside	105	339	-234	0.82	-0.0468	0.77	0.83	-0.0390	0.79	0.85	-0.0390	0.81
Rahway	13	15	-2	5.82	-0.0004	5.82	2.33	-0.0003	2.33	2.45	-0.0003	2.45
Roselle Park	38	117	-79	0.4	-0.0158	0.38	0.11	-0.0132	0.10	0.27	-0.0132	0.26
Scotch Plains	66	413	-347	1.12	-0.0694	1.05	0.99	-0.0579	0.93	0.98	-0.0579	0.92
Springfield	0	186	-186	2.21	-0.0372	2.17	1.82	-0.0310	1.79	1.92	-0.0310	1.89
Westfield	1425	175	1250	3.57	0.2500	3.82	2.98	0.2085	3.19	2.97	0.2085	3.18
Woodbridge	10	9	1	6.41	-0.4998	5.91	5.12	0.0002	5.12	6.06	-0.4163	5.64
TOTAL:	2494	2494	0	25.40	-0.5000	24.89	17.86	0.0000	17.86	19.04	-0.4165	18.62

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

April, 2017

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	2.39	2.29	2.35	2.44						2.21
RV02	3.13	3.27	3.40	3.80	3.71	3.90	4.09						3.61
RV03	1.25	1.23	1.47	1.48	1.46	1.67	1.86						1.49
RV04	0.16	0.18	0.22	0.25	0.23	0.24	0.27						0.22
RV05	0.24	0.26	0.29	0.35	0.33	0.37	0.42						0.32
RV06	0.42	0.17	0.19	0.21	0.19	0.20	0.25						0.23
RV07	0.50	0.51	0.59	0.64	0.61	0.69	0.80						0.62
RV09	2.83	3.12	3.47	4.31	3.97	4.37	5.40						3.92
RV10	5.99	6.23	7.02	8.11	7.33	8.12	10.13						7.56
RV11	9.12	9.97	10.97	13.28	11.77	13.17	16.17						12.06
RV12	4.17	4.63	5.03	6.66	5.58	5.90	6.92						5.55
RV13	0.45	0.47	0.61	0.77	0.68	0.72	0.90						0.66
RV14	14.47	15.98	18.92	21.93	18.23	21.80	26.89						19.75
RV15	0.60	0.69	0.76	0.94	0.83	0.92	1.27						0.86
RV17	0.35	0.43	0.42	0.53	0.44	0.47	0.54						0.45
RV18	0.73	0.74	0.74	0.89	0.76	0.88	0.94						0.81
RV19	0.27	0.30	0.36	0.31	0.07	0.39	0.44						0.31
RV20	0.73	0.76	0.85	0.90	0.78	0.83	0.93						0.82
RV29	0.95	1.03	1.22	1.31	1.14	1.18	1.50						1.19
RV30	0.12	0.13	0.15	0.18	0.18	0.19	0.21						0.17
RV31	0.04	0.05	0.04	0.08	0.05	0.15	0.29						0.10
Total Rainfall (inch)	1.90	4.43	2.59	3.93	1.66	3.87	3.26						21.64

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 represtents total rainfall for the billing year.

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2017 METER SITE LOADING RATES

April, 2017

METER NO.:	Avgerage 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	2.21	198	3649	1.82	208	3834	1.92
RV02	3.61	206	6202	3.10	222	6684	3.34
RV03	1.49	203	2523	1.26	192	2386	1.19
RV04	0.22	204	374	0.19	199	365	0.18
RV05	0.32	188	502	0.25	156	416	0.21
RV06	0.23	170	326	0.16	184	353	0.18
RV07	0.62	255	1319	0.66	193	998	0.50
RV09	3.92	206	6735	3.37	207	6767	3.38
RV10	7.56	190	11980	5.99	205	12925	6.46
RV11	12.06	194	19513	9.76	197	19814	9.91
RV12	5.55	189	8748	4.37	229	10600	5.30
RV13	0.66	176	969	0.48	162	892	0.45
RV14	19.75	163	26849	13.42	166	27343	13.67
RV15	0.86	209	1499	0.75	212	1521	0.76
RV17	0.45	89	334	0.17	93	349	0.17
RV18	0.81	230	1554	0.78	234	1581	0.79
RV19	0.31	165	427	0.21	145	375	0.19
RV20	0.82	243	1662	0.83	248	1696	0.85
RV29	1.19	176	1747	0.87	174	1727	0.86
RV30	0.17	148	210	0.10	124	176	0.09
RV31	0.10	163	136	0.07	166	138	0.07

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

April, 2017

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	255	254					368	235										211	520	348
10/24/2016	263	217	336	271	210	263	202	238	185	214	191	385	195	228	67	259	420	224	195	284
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	143	186	238	207	318	208	259	226	212	199	273	210	207	225	114	265	234	219	99	180
11/21/2016			212	321	172	169		212						237		194				
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									199	174	138	112	131		89.6		196			
12/7/2016	150	186	191	200	271	177	205	207	141	144	180	159	140	180	39	225	187	217	146	221
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
1/10/2017	277	224	218	177	174	129	245	240	152	193	201	243	222	198	78	243	201	244	640	150
1/25/2017	146	126	108	90	113	87	165	105	93	167	84	182	135	114	56	182	128	149	120	72
1/30/2017			202	169	153	88.6		202						154		214				
1/31/2017			215	176	163	79		236						185		210				
2/1/2017			267	180	167	129		161						191		207				
2/2/2017			182	182	174	134		194						284		201				
2/6/2017	335	237	233	218	226	210	396	204	210	236	200	200	195	233	96	247	335	296	134	170
2/6/2017									348	192	174	167	211		95.6		160			
2/7/2017									151	194	171	194	189		94.7		155			
2/14/2017	182	226					216											230	192	110
2/15/2017	186	174					258											223	186	106
2/16/2017	182	147					295											280	128	107
2/22/2017	268	229	168	185	173	140	217	217	164	206	227	353	176	190	82	205	162	238	189	96
3/1/2017									146	202	211	202	202		174		157			
3/2/2017									181	185	152	106	169		107		124			
3/8/2017	203	279	240	205	246	155	500	240	202	228	241	452	226	216	81	198	117	314	184	285
3/9/2017	167	193					352											285	236	136
3/22/2017	140	190	164	129	187	195	298	153	171	174	196	139.5	150	153	106	205	162	295	147	170
4/3/2017						63				120	119	82.8	97.4				116		104	
4/4/2017						52.3				63.3	65.4	32.5	61.3				91		79.3	
4/5/2017	152	140	137	108	96	63	99	129	150	114	111	102	102	108	55	138	128	240	69	90
4/5/2017						68				115	86.6	35.5	85.5				156			
4/6/2017						49.5				89.8	94	54.4	78				90.3		97.5	
4/17/2017	179	206	234	271	242	144	220	248	191	284	227	221	176	253	119	307	158	329	141	117
4/17/2017			116	109	175			152	158					150		237				
4/18/2017			182	170	166			179	133					215		211				
4/19/2017			180	178	137			176	113					180		222				
4/20/2017			176	184	129			166	133					216		191				
4/24/2017	191	197					211								112			200		87.6
4/25/2017	145	145					140								73.4			224		104
4/26/2017	147	174					214								72			167		89.1
4/27/2017	170	188					172								84.1			465		85.8
Maximum	335	291	344	434	318	584	500	308	348	364	334	452	276	438	174	324	420	465	640	362
Minimum	140	126	105	90	96	50	99	105	93	63	65	33	61	108	39	138	90	149	60	72
Average	200	206	204	208	189	180	258	206	193	195	190	180	163	213	90	230	171	247	191	152
Adjusted Avg	198	206	203	204	188	170	255	206	191	194	189	176	163	209	89	230	165	243	179	148
Count	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30

2017 Total Suspended Solids Results

April, 2017

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	272	274					234	260										296	402	248
10/24/2016	236	224	248	174	160	190	228	288	176	204	416	272	206	230	64	256	256	230	150	124
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	140	182	236	180	296	294	206	246	194	256	204	180	168	234	104	192	154	252	90	156
11/21/2016			208	312	130	140		234						208		196				
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									270	178	218	122	168		150		210			
12/7/2016	142	186	166	122	368	298	154	182	138	174	180	122	148	162	46	242	100	214	110	166
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
1/10/2017	234	216	196	146	136	92	180	222	172	180	190	182	178	174	54	200	104	224	622	74
1/25/2017	148	128	96	82	106	30	108	108	80	126	372	114	120	94	50	174	100	158	84	70
1/30/2017			176	208	150	92		250						122		204				
1/31/2017			160	142	132	36		216						166		184				
2/1/2017			320	182	122	106		156						188		222				
2/2/2017			174	196	132	102		158						488		222				
2/6/2017	212	242	208	420	192	132	238	180	232	202	168	242	156	184	62	198	96	242	90	96
2/6/2017									468	172	204	158	234		82		174			
2/7/2017									132	162	154	158	144		70		176			
2/14/2017	186	280					144											226	162	162
2/15/2017	210	170					224											272	156	114
2/16/2017	288	132					156											354	116	94
2/22/2017	198	230	152	152	98	104	154	142	154	162	166	182	180	152	70	172	124	206	108	80
3/1/2017									152	196	252	168	172		180		154			
3/2/2017									152	196	210	104	180		144		86			
3/8/2017	216	226	228	160	166	148	314	172	186	180	218	168	196	184	50	202	152	410	94	136
3/9/2017	174	172					260											276	270	150
3/22/2017	136	168	128	110	114	88	170	140	144	150	212	114	126	142	88	182	208	212	96	90
4/3/2017						74				370	166	72	82				102		118	
4/4/2017						60				90	96	26	78				112		80	
4/5/2017	144	138	88	82	72	42	76	102	88	88	92	86	226	94	28	142	80	172	46	68
4/5/2017						60				80	84	42	90				148			
4/6/2017						82				140	142	82	122				102		122	
4/17/2017	184	182	170	234	148	90	246	214	152	224	264	200	188	178	98	252	120	290	126	70
4/17/2017			184	132	180			232	144					246		326				
4/18/2017			226	198	160			184	112					306		260				
4/19/2017			180	184	112			244	136					206		288				
4/20/2017			174	212	114			170	130					216		218				
4/24/2017	228	246					158								122			210		86
4/25/2017	200	206					144								106			224		106
4/26/2017	162	284					158								98			172		104
4/27/2017	198	234					114								102			258		102
Maximum	320	390	328	668	368	672	338	394	480	370	436	424	258	488	206	428	256	410	622	354
Minimum	118	118	88	82	72	30	76	102	80	80	84	26	78	94	28	142	70	158	46	66
Average	209	224	194	211	160	196	194	209	210	199	231	167	166	217	94	238	147	250	185	129
Adjusted Avg	208	222	193	199	156	185	193	207	205	197	229	163	166	212	93	234	145	248	174	124
Count	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30