

December 18, 2020

TO: Treatment Plant Advisory Committee

SJ: Tributary Agencies Estimated Available Plant Capacity - 2020

The Master Agreements require that the Treatment Plant Advisory Committee file annually with the legislative bodies of San Jose, Santa Clara and member agencies a report on plant capacity. The attached report, Tributary Agencies Estimated Available Plant Capacity - 2020, has been prepared to satisfy this requirement and to identify each agency's 2020 plant capacity as well as estimated available (unused) capacity.

Sincerely,

Napp Fukuda for

Kerrie Romanow
Director
Environmental Services Department

Attachment

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT**

**SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020**

December 2020

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY**

TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020

This analysis was prepared to comply with the terms of the Master Agreements which require that the operational capacity and productive use of the treatment plant be determined annually. Tables I through IV contain the Plant Capacity, the 2020 Peak Week (5-day average) Flow, and the Remaining Available Capacity for the entire plant and for each individual member for 2020.

2020 PLANT CAPACITY

The nominal capacity of the treatment plant during the 2020 peak week is 167 MGD. The agencies' capacity rights in the 167 MGD plant are shown on Tables I through IV and were determined in accordance with the provisions of the Master Agreements.

2020 PEAK WEEK FLOW (1)

The 2020 peak dry weather flow of 101.99 MGD occurred during the week of June 1 - 5. Tables I through IV contain the agencies' flow and loadings for the 2020 peak week which were obtained from the following sources:

- WEST VALLEY SANITATION DISTRICT - Wastewater Flow Report dated 7/30/20, submitted by the District.
- CUPERTINO SANITARY DISTRICT - Metered Flow Reports dated 11/19/20, submitted by the District.
- CITY OF MILPITAS - Metered Flow Reports dated 12/15/20, submitted by the City
- COUNTY SANITATION DISTRICT 2-3 - 2020-2021 Revenue Program.
- BURBANK SANITARY DISTRICT - 2020-2021 Revenue Program.

- CITY of SAN JOSE and CITY of SANTA CLARA - The 2020 Peak Week flow and loadings remaining after subtracting the other agencies' reported flows and loadings are attributed to San Jose and Santa Clara as joint owners of the facilities. These were allocated, in accordance with the 1959 Agreement, to the two cities based on current assessed valuation ratios of 80.920% for San Jose and 19.080% for Santa Clara.

2020 ESTIMATED AVAILABLE CAPACITY

The Agencies' peak week flows and loadings were subtracted from their capacities in the 167 MGD plant to obtain their 2020 available capacities.

(1) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE I
CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020

FLOW

Agency		2020 Plant Capacity MGD	2020 Peak Week Flow MGD	Estimated Available Capacity MGD (*)
San Jose	80.920%	106.650	65.911	40.739
Santa Clara	19.080%	25.147	15.541	9.606
Subtotal	100.000%	131.797	81.452	50.345
West Valley Sanitation District	(1) (3)	11.697	9.746	1.951
Cupertino Sanitary District	(4)	7.850	4.151	3.699
City of Milpitas	(3) (4)	14.250	5.400	8.850
County Sanitation District 2-3	(2)	1.006	1.006	0.000
Burbank Sanitary District		0.400	0.235	0.165
Subtotal		35.203	20.538	14.665
Total		167.000	101.990	65.010

(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2020.

(2) In January 1985, County Sanitation District 2-3 entered into an agreement with the Cities of San Jose and Santa Clara, as joint owners of the plant, electing not to participate in a fixed capacity. Capacity is determined annually in accordance with the methods and restrictions prescribed in the agreement.

(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.

(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.

(*) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE II
CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020

BOD

Agency		2020 Plant Capacity KLBS/D	2020 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose		80.920% 376.959	158.521	218.438
Santa Clara		19.080% 88.883	37.378	51.505
Subtotal		100.000% 465.842	195.899	269.943
West Valley Sanitation District	(1) (3)	28.611	20.949	7.662
Cupertino Sanitary District	(4)	16.419	11.369	5.050
City of Milpitas	(3) (4)	27.249	13.130	14.119
County Sanitation District 2-3	(2)	2.064	2.064	.000
Burbank Sanitary District		.815	.479	.336
Subtotal		75.158	47.991	27.167
Total		541.000	243.890	297.110

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TABLE III
CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020

SUSPENDED SOLIDS

Agency		2020 Plant Capacity KLBS/D	2020 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.920%	334.734	159.990	174.744
Santa Clara	19.080%	78.927	37.724	41.203
Subtotal	100.000%	413.661	197.714	215.947
West Valley Sanitation District	(1) (3)	27.173	18.694	8.479
Cupertino Sanitary District	(4)	16.299	8.861	7.438
City of Milpitas	(3) (4)	25.990	9.876	16.114
County Sanitation District 2-3	(2)	2.024	2.024	.000
Burbank Sanitary District		.853	.471	.382
Subtotal		72.339	39.926	32.413
Total		486.000	237.640	248.360

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TABLE IV
CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2020

AMMONIA

Agency		2020 Plant Capacity KLBS/D	2020 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)	
San Jose		80.920%	33.236	19.500	13.736
Santa Clara		19.080%	7.837	4.598	3.239
Subtotal		100.000%	41.073	24.098	16.975
West Valley Sanitation District	(1) (3)		2.825	2.432	.393
Cupertino Sanitary District	(4)		2.287	1.005	1.282
City of Milpitas	(3) (4)		2.847	1.219	1.628
County Sanitation District 2-3	(2)		.271	.271	.000
Burbank Sanitary District			.297	.065	.232
Subtotal			8.527	4.992	3.535
Total			49.600	29.090	20.510

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