

December 21, 2021

TO: Treatment Plant Advisory Committee

RE: Tributary Agencies Estimated Available Plant Capacity – 2021

The Master Agreements require that the Treatment Plant Advisory Committee file annually with the legislative bodies of the City of San Jose, Santa Clara, and member agencies a report on plant capacity. Furthermore, the Master Agreement requires each agency to report actual discharge. The attached report, Tributary Agencies Estimated Available Capacity – 2021, has been prepared to satisfy this requirement and to identify each agency's 2021 plant capacity as well as estimated available (unused) capacity.

Sincerely,

Kerrie Romanow
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 - 2021**

December 2021

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

TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2021

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 2021 Peak Week (5-day average) Flow, and the Remaining Available Capacity for the entire plant and for each individual member for 2021.

2021 PLANT CAPACITY

The nominal capacity of the treatment plant during the 2021 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.

2021 PEAK WEEK FLOW (1)

The 2021 peak dry weather flow of 102.37 MGD occurred during the week of October 25 - 29. Tables I through IV contain the agencies' flow and loadings for the 2021 peak week which were obtained from the following sources:

- WEST VALLEY SANITATION DISTRICT - Wastewater Flow Report dated 7/28/21, submitted by the District.
- CUPERTINO SANITARY DISTRICT - Metered Flow Reports dated 11/23/21, submitted by the District.
- CITY OF MILPITAS - Metered Flow Reports dated 11/24/21, submitted by the City
- COUNTY SANITATION DISTRICT 2-3 - 2021-2022 Revenue Program.
- BURBANK SANITARY DISTRICT - 2021-2022 Revenue Program.
- CITY of SAN JOSE and CITY of SANTA CLARA - The 2021 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 80.539% for San Jose and 19.461% for Santa Clara.

2021 ESTIMATED AVAILABLE CAPACITY

The Agencies' peak week flows and loadings were subtracted from their capacities in the 167 MGD plant to obtain their 2021 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 - 2021				
FLOW				
Agency		2021 Plant Capacity MGD	2021 Peak Week Flow MGD	Estimated Available Capacity MGD (*)
San Jose	80.539%	106.153	64.989	41.164
Santa Clara	19.461%	25.650	15.704	9.946
Subtotal	100.000%	131.803	80.693	51.110
West Valley Sanitation District	(1) (3)	11.697	9.763	1.934
Cupertino Sanitary District	(4)	7.850	4.579	3.271
City of Milpitas	(3) (4)	14.250	6.100	8.150
County Sanitation District 2-3	(2)	1.000	1.000	0.000
Burbank Sanitary District		0.400	0.235	0.165
Subtotal		35.197	21.677	13.520
Total		167.000	102.370	64.630
<p>(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2021.</p> <p>(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.</p> <p>(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.</p> <p>(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.</p>				

(*) 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 - 2021**

BOD

Agency		2021 Plant Capacity KLBS/D	2021 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.539%	375.193	144.105	231.088
Santa Clara	19.461%	90.660	34.821	55.839
Subtotal	100.000%	465.853	178.926	286.927
West Valley Sanitation District	(1) (3)	28.611	20.955	7.656
Cupertino Sanitary District	(4)	16.419	12.460	3.959
City of Milpitas	(3) (4)	27.249	14.415	12.834
County Sanitation District 2-3	(2)	2.053	2.053	.000
Burbank Sanitary District		.815	.481	.334
Subtotal		75.147	50.364	24.783
Total		541.000	229.290	311.710

(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2021.

(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 III

CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2021

SUSPENDED SOLIDS

Agency		2021 Plant Capacity KLBS/D	2021 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.539%	333.155	141.317	191.838
Santa Clara	19.461%	80.502	34.147	46.355
Subtotal	100.000%	413.657	175.464	238.193
West Valley Sanitation District	(1) (3)	27.173	18.732	8.441
Cupertino Sanitary District	(4)	16.299	9.706	6.593
City of Milpitas	(3) (4)	25.990	11.147	14.843
County Sanitation District 2-3	(2)	2.028	2.028	.000
Burbank Sanitary District		.853	.473	.380
Subtotal		72.343	42.086	30.257
Total		486.000	217.550	268.450

- (1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2021.
- (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 IV

CITY OF SAN JOSE ENVIRONMENTAL SERVICES DEPARTMENT SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2021 AMMONIA				
Agency		2021 Plant Capacity KLBS/D	2021 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.539%	33.080	17.401	15.679
Santa Clara	19.461%	7.993	4.205	3.788
Subtotal	100.000%	41.073	21.606	19.467
West Valley Sanitation District	(1) (3)	2.825	2.433	.392
Cupertino Sanitary District	(4)	2.287	1.101	1.186
City of Milpitas	(3) (4)	2.847	1.453	1.394
County Sanitation District 2-3	(2)	.271	.271	.000
Burbank Sanitary District		.297	.066	.231
Subtotal		8.527	5.324	3.203
Total		49.600	26.930	22.670
<p>(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2021.</p> <p>(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.</p> <p>(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.</p> <p>(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.</p>				

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