



CITY OF HOLLISTER

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PUBLIC WORKS: ENGINEERING SECTION

Office Location: 420 Hill Street • Building C • (831) 636-4340 Fax (831) 636-4349

January 5, 2004

Roger Briggs, Executive Officer
California Regional Water Control Board
Central Coast Region
81 Higuera Street, Suite 200
San Luis Obispo, CA 93401-5411



Re: Request for Sanitary Sewer Connections for Critical Facilities

Dear Mr. Briggs:

Pursuant to Cease and Desist Order R3-2003-0105, the City of Hollister is requesting consideration of the connection of three critical facilities to its sanitary sewer system. No additional flow will be added to system through the use of conservation by the owners of the facilities and/or by the elimination of existing connections on the site of these critical facilities. The three connections are the City of Hollister Fire Station #2, the San Benito High School Campus Expansion, and the Hazel Hawkins Hospital Surgical Center. I will discuss each of these in more detail below and a spreadsheet of calculations is attached.

It is noted that since new metering was installed at the domestic plant, the City has been in compliance with regard to flows at both the Domestic and Industrial Plants. The Domestic Plant Discharge Order allows 2.69 MGD and the Industrial Plant Discharge Order allows 0.18 MGD during the canning season and up to 1.5 MGD during the non-canning season. None of these parameters has been exceeded. In addition, disposal rates for the period of September through November appear to be up 0.11 MGD at the Domestic Plant and 0.10 at the Industrial Plant over the same period last year. We believe this is due to a combination of a full-time onsite operator and improved effluent quality from the Interim Improvements that have been installed. Storage has also increased to 137.08 MG as compared to 99.77 MG last November. A spreadsheet showing this information is attached.

These are facilities that are critical to the community. We request that the Regional Board take into consideration the City's efforts thus far to comply with both the Cease and Desist Order and the Administrative Civil Liability Order along with the information that supports no increased flows from these connections.

REQUESTED FACILITES

Fire Station #2 – This station will be staffed with 3 crews of three people. As the fire fighters will essentially live there 3 at a time, it is equivalent to a single family home. Two of these crews are already employed by the City and are stationed at the existing station. Consequently, the increased in flow would be equivalent to 1/3 of a single family home or $225\text{gpd}/3 = 75 \text{ gpd}$.

The City has replaced 10 standard toilets with 10 new ultra low flow toilets at various City owned facilities since the Cease and Desist Order was imposed. The savings from these retrofits is 60gpd/toilet or a total 600 gallons. This achieves a net decrease of 525 gpd.

High School Campus Expansion – This expansion would ultimately result in the addition of 37 staff members comprised of 28 teachers and 9 support staff. There would be no increase in student population because of the campus expansion as there is only one high school in the community. Any increased enrollment would be absorbed by the school with or without expansion. The only difference is that class size would increase if the expanded campus were not occupied. The increased flow from these added staff members would be 782 gpd.

The school has already replaced 23 toilets at its current campus with ultra low flow toilets and has 20 more awaiting installation. This is a current flow savings of 1380 gpd with an additional 1200 gpd to be achieved prior to connection. In addition, there were two homes with active connections on the site at the time the Cease and Desist Order was imposed. These homes no longer exist. The school district is proposing to use one of these eliminated connections as a flow reduction of 225 gallons per day. A summary is as follows:

School Summary

23 current toilet retrofits	1380 gpd
20 toilet retrofits prior to connection	1200 gpd
One eliminated domestic connection	225 gpd
Total Savings	2805 gpd
Less Increased Flow	(782)gpd
Net Flow Decrease	2023 gpd

Hazel Hawkins Surgical Center

The hospital has indicated that this center would not increase the number of procedures performed but would allow for more efficient and reasonable scheduling. However, the total wastewater discharge of the facility is estimated at 966 gallons per day by the hospital. Using an extremely conservative evaluation would net no more than 1880 gpd. The Hospital has substantially reduced flows to their facilities through toilet retrofits. The hospital has currently replaced 26 toilets with ultra low flow toilets for a savings of 1560

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gpd. They have another 28 toilets that would be replaced prior to connection for a savings of 1680 gpd. In addition, they have upgraded to a non-regenerating water softening system which has achieved a water savings of 700 gpd. This is a total reduction of 3940 gpd to offset the entire flow of the facility. However, no increase in flows for the entire hospital facility is expected as a result of this new surgical center.

Consideration of this matter is appreciated. If you need any additional information, please contact me at (831) 636-4340.

Sincerely,
City of Hollister



Clint G. Quilter
Public Works Director

cc: Dale Shaddox
Steve Wittry

Supplemental Flow and Disposal Information

Non-Cannery Flow-MGD

	Dom. Plant	Ind. Plant	Total
Aug. 03	2.68	0.04	2.72
Sept. 03	2.66	0.06	2.72
Oct. 03	2.59	0.06	2.65
Nov. 03	1.42	1.33	2.75

Disposal Comparison After Completion/Start Up Tuning of Interim Improvements

	Domestic Plant		Industrial Plant		Total	
	2002	2003	2002	2003	2002	2003
September	2.56	2.6	1.56	1.61	4.12	4.21
October	1.88	2.06	1.05	1.01	2.93	3.07
November	1.65	1.77	1.5	1.78	3.15	3.55
Increase		0.11MGD		0.10 MGD		0.21 MGD

Low Flow Toilet Information

San Benito School

	# of Low Flow Toilets(4)	Saving per toilet gpd(1)	Total Wastewater Savings gpd
Installed	23	60	1380
Planned	20	60	1200

Wastewater Reduction Credit

Low Flow Toilet Installation + Single Family Housing credit (1 @ 225 gpd)

Total Credit 2805 GPD

Additional Staff Required by new construction

at maximum utilization

28 Teachers

2 custodians

1 Groundskeeper

1 food service worker

5 Admin/support

Total 37 additional workers

Expected wastewater generated per worker (2) 21.1 GPD

Additional wastewater generated 782.0 GPD

Net Balance 2023.0 GPD

Hazel Hawkins Hospital

	# of Low Flow Toilets(4)	Saving per toilet gpd(1)	Total Wastewater Savings gpd
Installed	26	60	1560
Planned	28	60	1680
Water Softener Replacement			700
Wastewater Reduction Credit			3940 GPD

Wastewater Generated by New Facility

at maximum utilization

10 staff

10 patients

Wastewater per staff (2) 16 GPD

Wastewater per patient (2) 172 GPD

Wastewater Generated 1880 GPD

Net Balance 2060 GPD

Fire Station

# of Low Flow Toilets(4)	Saving per toilet gpd(1)	Total Wastewater Savings gpd
10	60	600
Wastewater Reduction Credit		600 GPD
Additional Staff required 3 Firefighters(3)		
Additional wastewater generated		75 GPD
Net Balance		525 GPD

(1) Urban Water Management Plan 2000 - Derived from CUWCC MOU March, 1994

(2) Tchobonoglous and Schroeder, 1987

(3) The Fire station will be manned by 3 - three person crews with each crew working a 24 hour shift. Two of those crews are currently housed at the existing station. The additional flows generated will be equivalent to 1/3 of a domestic dwelling.

(4) Replacement of existing toilets with low flow toilets.