

CITY OF HOLLISTER LIFT STATION INFORMATION

**Information in Appendix 04-2 is taken from the City of Hollister 2010 Sanitary Sewer Collection System Master Plan: Chapter 5 – Lift Station Evaluation.*

The City owns and operates four lift stations located throughout the collection system. The service areas and locations of the lift stations are depicted in Figure 5-1 and their features are summarized in Table 5-1. The four lift stations are as follows:

Airport Lift Station

The Airport Lift Station is located off of Highway 156 (San Felipe Road) on Hollister Municipal Airport property near Armory Drive. This lift station collects flow from the airport, commercial and industrial parcels near the airport, and a small number of homes east of San Felipe Road.

GLP Lift Station

The GLP Lift Station is located on Frontage Road between Park Center Drive to the north and McCloskey Road to the south. This lift station collects flow from residential customers between San Felipe Road and North Chappell Road, commercial and industrial customers along San Felipe Road, including the Best Western and Wiebe Motel. This station also receives flow directly from the Airport Lift Station force main.

2nd & East Lift Station

The 2nd & East Lift Station is located at the intersection of Second Street and East Street. This lift station collects flow from residential customers between Highway 156 and Monte Carlo Drive, Gabilan Hills Elementary School and Maze Middle School, commercial customers along Highway 156 and McCray Street, and the Hollister Inn and Cinderella Motel.

Southside Lift Station

The Southside Lift Station is located near the intersection of Southside Road and Enterprise Road outside the City limits. This lift station collects flow from the 56 unit subdivision, San Benito County public works facility and County owned labor camp near Hospital Road and Southside Road.

PHYSICAL DESCRIPTION

Information regarding the physical characteristics of the four lift stations was provided by City staff, and above ground features were visually reviewed by Wallace Group during site visits. A physical investigation of the City's lift stations was not conducted as a part of this analysis. The lift station features are summarized in Table 5-1.

Table 5-1. Lift Station Summary

		Lift Station			
		Airport	GLP	2 nd & East	Southside
Date Constructed		NA	NA	NA	1995
Date Refurbished		2001	2001	1993	---
Type		submersible	submersible	submersible	submersible
Pump Manufacturer		Wemco	Flygt	Flygt	Flygt
Number of Pumps		2	3	3	2
Horsepower (HP), each		25	20	10	7.5
Impeller Trim (in) OR Impeller Code		10.375	454	434	439
Pump Model #		E5K-ST-EEXZ4	3152-091-9144	3127-093-0850072	3127-090-439MT
Motor Model #		EEXZ4	NA	NA	NA
Motor Serial #		01DW03318-01, -02, -03	NA	NA	NA
Voltage		460	460	460	460
Speed (rpm)		1750	1750	1750	1750
Motor Type		Constant Speed	Constant Speed	Constant Speed	Constant Speed
Pump Design Point	gpm	800	NA	600	400
	TDH (ft)	70	NA	14.5	33
Total Hours of Operation ¹	Pump 1	3,978	1,025	2,052	9,164
	Pump 2	3,702	951	1,616	2,491
	Pump 3	---	963	2,020	---
Permanent Standby Generator		no	no	no	no
Portable Generator Power Receptacle		yes	yes	yes	yes
Bypass Capabilities		no	no	yes	no
Wet Pit Coating		NA	NA	epoxy	NA
Wet Well Diameter or Length (ft)		10	10	10	6
Wet Well Width (ft)		6	---	---	---
Wet Well Invert Elevation (ft)		191.38	231	258	303.62
Wet Well Total Depth (ft)		28.10	17	25	17.25
Wet Well Set Points (feet) ²	Low Alarm	0.4	0.5	2.0	0.0
	Off	3.0	2.6	2.7	3.0
	Lead On	5.9	5.7	5.0	6.1
	Lag On	6.3	6.7	5.2	7.5
	Last On	---	7.2	5.6	---
	High Alarm	9.0	8.0	8.0	8.0
	Overflow	---	---	15.0	---
Wet Well Operating Volume (gal) ³		1,302	1,821	1,351	656
Wet Well Maximum Volume (gal) ⁴		3,860	4,406	3,525	1,692
Force Main Diameter (inches)		10	12	8 & 10	6
Force Main Material		PVC	PVC	DI	PVC
Force Main Length (feet)		6,992	7,128	37	1,320
Force Main Start Elevation (feet) ⁵		193.03	231.00	260.00	303.62
Force Main End Elevation (feet)		244.67	280.12	273.72	327.32
Force Main Total Static Head (feet)		51.6	49.1	13.7	23.7

NA - Not Available

1. Total pumping hours as of October 1, 2009. Information provided by City Staff.
2. Information provided by City staff.
3. Wet well operating volume calculated based on operating range from Pump Off to Lead On
4. Wet well maximum volume calculated based on maximum desired operating range (Low Alarm to High Alarm)
5. Elevation assumed for 2nd & East and Southside Lift Stations, based on low wet well alarm.

Airport Lift Station

The Airport lift station is a duplex submersible pump configuration within a 6-foot by 10-foot rectangular wet well. The station was refurbished in 2001. At this time the station does not have dedicated back-up power. The wet well is equipped with a Bioxide® system to minimize formation of hydrogen sulfide gas and a 4-inch PVC vent pipe. The station pumps into a 10-inch PVC force main that is routed directly to the GLP lift station. This lift station is located within a fenced in area at the municipal airport.

GLP Lift Station

GLP is Hollister's largest lift station. The station is a triplex submersible pump configuration within a 10-foot diameter wet well. The station was refurbished in 2001. At this time the station does not have dedicated back-up power. The wet well is equipped with a Bioxide® system to minimize formation of hydrogen sulfide gas. The station pumps into a 12-inch PVC force main that flows to a manhole on 2nd Street adjacent to the 2nd & East lift station. This lift station is located on Frontage Road.

2nd & East Lift Station

The 2nd & East lift station is a triplex submersible pump configuration within a 10-foot diameter wet well. The station was refurbished in 1993. The lift station piping interior to the wet well was replaced in 2010 due to corrosion. The City has installed a Biocube® filtration system onsite to treat gas released from the lift station due to odor issues. At this time the lift station does not have dedicated back-up power. The station pumps into an 8-inch ductile iron force main, which transition to 10-inch and then discharges a short distance to a manhole in 2nd Street. This lift station is located within a fenced in area at the intersection of 2nd Street and East Street.

Southside Lift Station

The Southside lift station is a duplex submersible pump configuration within a 6-foot diameter wet well. The station was constructed in 1995. At this time the station does not have dedicated back-up power. The station pumps into a 6-inch PVC force main that discharges to the manhole at the intersection of Southside Road and Union Road.