

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: January 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
1/31/2016=	26515140	29739800
1/1/2016=	<u>22939040</u>	<u>25821620</u>
Totals in Gallons	3576100	3918180

Lift Station 5 Volume 3576100 + 3918180 = 7494280 Gallons

Monthly Average Daily Flow  $\frac{7494280}{31} = \underline{241751}$  Gallons/Day

Calculated Volumes

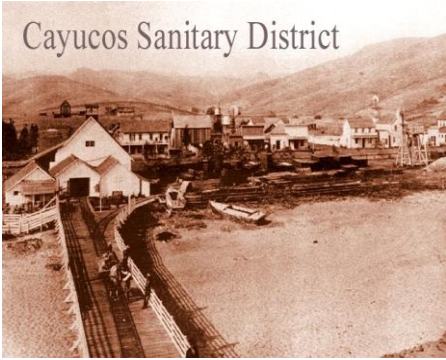
	Pump 1	Pump 2
1/31/2016=	2972.1	2875.0
1/1/2016=	<u>2872.1</u>	<u>2776.3</u>
Totals in Hours	100.0	98.7

	Pump 1	Pump 2
Hours x	100.0	98.7
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3534000	3855222

Percent Difference

Pump 1  $\frac{3534000 - 3576100}{3576100} = -1.2\%$  calculated volume is less than metered volume

Pump 2  $\frac{3855222 - 3918180}{3918180} = -1.6\%$  calculated volume is less than metered volume



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**Cayucos Sanitary District Monthly Flow Report for January 2016**

**Total Volume Recorded at Lift Station 5: 7,494,280 Gallons**

**Monthly Average Daily Flow: 241,751 Gallons                      Rain: 4.45"**

Reporting Dates: January 1 through 31  
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd  
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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:  
Meter 1 = 3,576,100 Gallons  
Meter 2 = 3,918,180 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: March 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
2/29/2016=	33560760	37002670
2/1/2016=	<u>29363090</u>	<u>32766030</u>
Totals in Gallons	4197670	4236640

Lift Station 5 Volume 4197670 + 4236640 = 8434310 Gallons

Monthly Average Daily Flow  $\frac{8434310}{31} = \underline{272075}$  Gallons/Day

Calculated Volumes

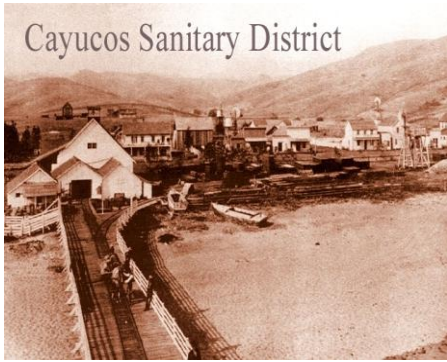
	Pump 1	Pump 2
2/29/2016=	3169.2	3056.3
2/1/2016=	<u>3051.8</u>	<u>2950.4</u>
Totals in Hours	117.4	105.9

	Pump 1	Pump 2
Hours x	117.4	105.9
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	4148916	4136454

Percent Difference

Pump 1  $\frac{4148916 - 4197670}{4197670} = -1.2\%$  calculated volume is less than metered volume

Pump 2  $\frac{4136454 - 4236640}{4236640} = -2.4\%$  calculated volume is less than metered volume



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**Cayucos Sanitary District Monthly Flow Report for March 2016**

**Total Volume Recorded at Lift Station 5: 8,434,310 Gallons**

**Monthly Average Daily Flow: 272,075 Gallons                      Rain: 5.25"**

Reporting Dates:            March 1 through 31  
Number of Days:            31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd  
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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:  
Meter 1 = 4,197,670 Gallons  
Meter 2 = 4,236,640 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: April 2016  
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
4/30/2016=	36491410	40110670
4/1/2016=	<u>33560760</u>	<u>37002670</u>
Totals in Gallons	2930650	3108000

Lift Station 5 Volume 2930650 + 3108000 = 6038650 Gallons

Monthly Average Daily Flow  $\frac{6038650}{30} = \underline{201288}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
4/30/2016=	3254.0	3136.6
4/1/2016=	<u>3169.2</u>	<u>3056.3</u>
Totals in Hours	84.8	80.3

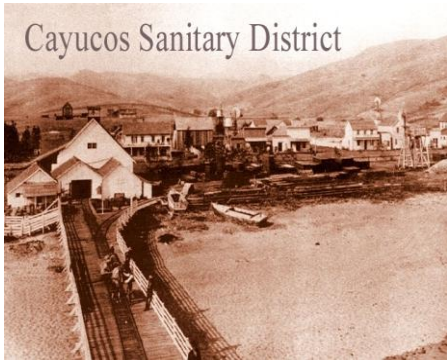
	Pump 1	Pump 2
Hours x	84.8	80.3
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2996832	3136518

	Line 1	Line 2
4/29/2016	36311010	39932940
	+ 180400	177730
total	36491410	40110670

Percent Difference

Pump 1  $\frac{2996832 - 2930650}{2930650} = 2.3\%$  calculated volume is greater than metered volume

Pump 2  $\frac{3136518 - 3108000}{3108000} = 0.9\%$  calculated volume is greater than metered volume



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**Cayucos Sanitary District Monthly Flow Report for April 2016**

**Total Volume Recorded at Lift Station 5: 6,038,650 Gallons**

**Monthly Average Daily Flow: 201,288 Gallons                      Rain: 5.25"**

Reporting Dates: April 1 through 30  
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd

\*\* Flow meters calibrated 4/29/16 equation is of flow numbers prior to calibration plus totals recorded at end of month after being reset on 4/29/16 by Steve Molinari of Jensen Instruments

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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,930,650 Gallons  
Meter 2 = 3,108,000 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: May 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
5/31/2016=	3385140	3254630
5/1/2016=	<u>180400</u>	<u>177730</u>
Totals in Gallons	3204740	3076900

Lift Station 5 Volume 3204740 + 3076900 = 6281640 Gallons

Monthly Average Daily Flow  $\frac{6281640}{31} = \underline{202634}$  Gallons/Day

Calculated Volumes

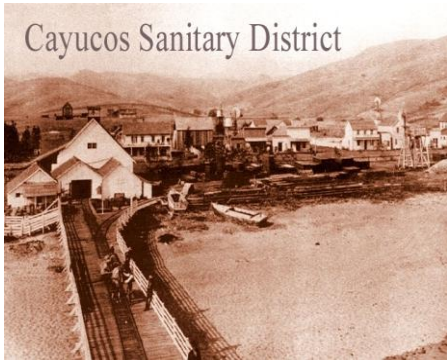
	Pump 1	Pump 2
5/31/2016=	3341.3	3217.9
5/1/2016=	<u>3254.0</u>	<u>3136.6</u>
Totals in Hours	87.3	81.3

	Pump 1	Pump 2
Hours x	87.3	81.3
GPM average x	600.0	630
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3142800	3073140

Percent Difference

Pump 1  $\frac{3142800 - 3204740}{3204740} = -1.9\%$  calculated volume is less than metered volume

Pump 2  $\frac{3073140 - 3076900}{3076900} = -0.1\%$  calculated volume is less than metered volume



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**Cayucos Sanitary District Monthly Flow Report for May 2016**

**Total Volume Recorded at Lift Station 5: 6,281,640 Gallons**

**Monthly Average Daily Flow: 202,634 Gallons                      Rain: 0**

Reporting Dates:            May 1 through 31  
Number of Days:            31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd  
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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:  
Meter 1 = 3,204,740 Gallons  
Meter 2 = 3,076,900 Gallons



Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: June 2016  
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
6/30/2016=	6812630	6516030
6/1/2016=	<u>3385140</u>	<u>3254630</u>
Totals in Gallons	3427490	3261400

Lift Station 5 Volume 3427490 + 3261400 = 6688890 Gallons

Monthly Average Daily Flow  $\frac{6688890}{30} = \underline{222963}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
6/30/2016=	3433.2	3303.2
6/1/2016=	<u>3341.3</u>	<u>3217.9</u>
Totals in Hours	91.9	85.3
Hours x	91.9	85.3
GPM average x	622.0	640
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3429708	3275520

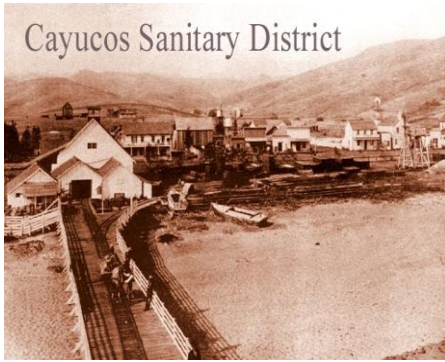
**Sampling formula**

active 510min @ 10gpm 5100 gallons static 5250min @ 5gpm 26250 gallons
31350 gallons
6688890-31350 = 6657540 gallons

Percent Difference

Pump 1  $\frac{3429708 - 3427490}{3427490} = 0.1\%$  calculated volume is greater than metered volume

Pump 2  $\frac{3275520 - 3261400}{3261400} = 0.4\%$  calculated volume is greater than metered volume



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## Cayucos Sanitary District Monthly Flow Report for June 2016

**Total Volume Recorded at Lift Station 5: 6,688,890 Gallons**

**Monthly Average Daily Flow: 222,963 Gallons                      Rain: 0**

Reporting Dates: June 1 through 30  
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd

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For four days this month the Cayucos Sanitary District was sampling its waste stream, this involves backflowing the line 2 force main into the wet well. This continuous stream generates a 5 gpm flow out of our force main directly back into the wet well. When the pump on line 2 is actively running the backflow doubles to 10 gpm.

Therefore the sanitary district is double pumping a certain amount of effluent. The **Sampling Formula** shows the math which correlates the active run time gpm backflow and the static gpm backflow, which was then deducted from our total pumped to the MBWWTP.

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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 3,427,490 Gallons  
Meter 2 = 3,261,400 Gallons

Total for June 2016 = 6,657,540 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: July 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
7/31/2016=	11254970	10641730
7/1/2016=	6812630	6516030
Totals in Gallons	<u>4442340</u>	<u>4125700</u>

Lift Station 5 Volume 4442340 + 4125700 = 8568040 Gallons

Monthly Average Daily Flow  $\frac{8568040}{31} = \underline{276388}$  Gallons/Day

Calculated Volumes

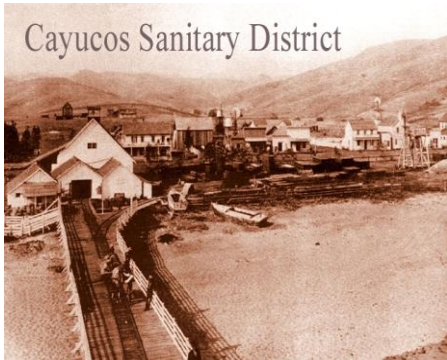
	Pump 1	Pump 2
7/31/2016=	3540.5	3399.8
7/1/2016=	3433.2	3303.2
Totals in Hours	<u>107.3</u>	<u>96.6</u>
Hours x	107.3	96.6
GPM average x	690.0	712
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	<u>4442220</u>	<u>4126752</u>

<b>Sampling formula</b>
active 1206min @ 10gpm 12060 gallons
static 5274min @ 5gpm 26370 gallons
<u>38430 gallons</u>
8568040-38430 = 8529610 gallons

Percent Difference

Pump 1  $\frac{4442220 - 4442340}{4442340} = 0.0\%$  calculated volume is less than metered volume

Pump 2  $\frac{4126752 - 4125700}{4125700} = 0.0\%$  calculated volume is greater than metered volume



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## Cayucos Sanitary District Monthly Flow Report for July 2016

**Total Volume Recorded at Lift Station 5: 8,568,040 Gallons**  
**Total Calculated Volume for July 2016 = 8,529,610 Gallons**  
**Monthly Average Daily Flow: 276,388 Gallons**                      **Rain: 0**

Reporting Dates: July 1 through 31  
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd

For 4.5 days this month the Cayucos Sanitary District was sampling its waste stream, this involves backflowing the line 2 force main into the wet well. This continuous stream generates a 5 gpm flow out of our force main directly back into the wet well. When the pump on line 2 is actively running the backflow doubles to 10 gpm. Therefore the sanitary district is double pumping a certain amount of effluent. The **Sampling Formula** shows the math which correlates the active run time gpm backflow and the static gpm backflow, which was then deducted from our total pumped to the MBWWTP.

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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 4,442,340 Gallons  
Meter 2 = 4,125,700 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: August 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
8/31/2016=	14708450	13806160
8/1/2016=	11254970	10641730
Totals in Gallons	<u>3453480</u>	<u>3164430</u>

Lift Station 5 Volume 3453480 + 3164430 = 6617910 Gallons

Monthly Average Daily Flow  $\frac{6617910}{31} = \underline{213481}$  Gallons/Day

Calculated Volumes

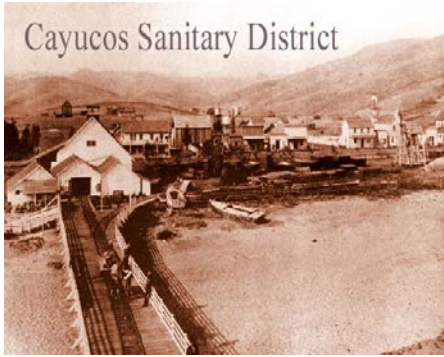
	Pump 1	Pump 2
8/31/2016=	3637.4	3482.9
8/1/2016=	3540.5	3399.8
Totals in Hours	<u>96.9</u>	<u>83.1</u>

	Pump 1	Pump 2
Hours x	96.9	83.1
GPM average x	594.0	635
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	<u>3453516</u>	<u>3166110</u>

Percent Difference

Pump 1  $\frac{3453516 - 3453480}{3453480} = 0.0\%$  calculated volume is greater than metered volume

Pump 2  $\frac{3166110 - 3164430}{3164430} = 0.1\%$  calculated volume is greater than metered volume



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**Cayucos Sanitary District Monthly Flow Report for August 2016**

**Total Volume Recorded at Lift Station 5: 6,617,910 Gallons**

**Monthly Average Daily Flow: 213,481 Gallons                      Rain: 0**

Reporting Dates: August 1 through 31  
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd  
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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:  
Meter 1 = 3,453,480 Gallons  
Meter 2 = 3,164,430 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: September 2016  
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
9/30/2016=	17797820	16768470
9/1/2016=	14708450	13806160
Totals in Gallons	<u>3089370</u>	<u>2962310</u>

Lift Station 5 Volume 3089370 + 2962310 = 6051680 Gallons

Monthly Average Daily Flow  $\frac{6051680}{30} = \underline{201722.67}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
9/30/2016=	3721.3	3556.6
9/1/2016=	3637.4	3482.9
Totals in Hours	<u>83.9</u>	<u>73.7</u>

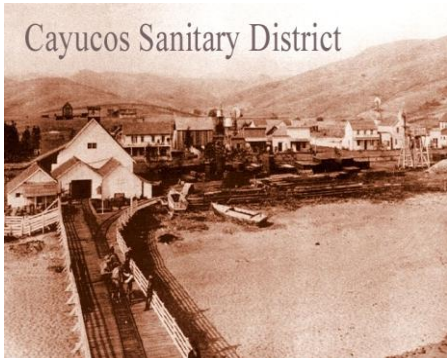
	Pump 1	Pump 2
Hours x	83.9	73.7
GPM average x	595.0	658
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	<u>2995230</u>	<u>2909676</u>

<b>Sampling formula</b>	
active 1065min @ 10gpm	10650 gallons
static 7578min @ 5gpm	37890 gallons
	48540 gallons
6051680-48540 =	6003140 gallons

Percent Difference

Pump 1  $\frac{2995230 - 3089370}{3089370} = -3.0\%$  calculated volume is less than metered volume

Pump 2  $\frac{2909676 - 2962310}{2962310} = -1.8\%$  calculated volume is less than metered volume



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### Cayucos Sanitary District Monthly Flow Report for September 2016

**Total Volume Recorded at Lift Station 5: 6,051,680 Gallons**  
**Total Calculated Volume for September 2016 = 6,003,140 Gallons**  
**Monthly Average Daily Flow: 201,723 Gallons                      Rain: 0**

Reporting Dates: September 1 through 30  
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd

For 6 days this month the Cayucos Sanitary District was sampling its waste stream, this involves backflowing the line 2 force main into the wet well. This continuous stream generates a 5 gpm flow out of our force main directly back into the wet well. When the pump on line 2 is actively running the backflow doubles to 10 gpm. Therefore the sanitary district is double pumping a certain amount of effluent. The **Sampling Formula** shows the math which correlates the active run time gpm backflow and the static gpm backflow, which was then deducted from our total pumped to the MBWWTP.

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 =	3,089,370	Gallons
Meter 2 =	2,962,310	Gallons



Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: October 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
10/31/2016=	20888940	19758660
10/1/2016=	<u>17797820</u>	<u>16768470</u>
Totals in Gallons	3091120	2990190

Lift Station 5 Volume 3091120 + 2990190 = 6081310 Gallons

Monthly Average Daily Flow  $\frac{6081310}{31} = \underline{196171.29}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
10/31/2016=	3809.1	3635.3
10/1/2016=	<u>3721.3</u>	<u>3556.6</u>
Totals in Hours	87.8	78.7

	Pump 1	Pump 2
Hours x	87.8	78.7
GPM average x	592.3	642.78
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3120236	3035207

Percent Difference

Pump 1  $\frac{3120236 - 3091120}{3091120} = 0.9\%$  calculated volume is greater than metered volume

Pump 2  $\frac{3035207 - 2990190}{2990190} = 1.5\%$  calculated volume is greater than metered volume



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**Cayucos Sanitary District Monthly Flow Report for October 2016**

**Total Volume Recorded at Lift Station 5: 6,081,310 Gallons**

**Monthly Average Daily Flow: 196,171 Gallons**

Reporting Dates: October 1 through 31  
Number of Days: 31

Rainfall Estimate: 2.3"

Comments: Current CAN-17 set to ~ 15gpd  
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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 3,091,120 Gallons  
Meter 2 = 2,990,190 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: November 2016  
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
11/31/2016=	24197040	22889730
11/1/2016=	<u>20888940</u>	<u>19758660</u>
Totals in Gallons	3308100	3131070

Lift Station 5 Volume 3308100 + 3131070 = 6439170 Gallons

Monthly Average Daily Flow  $\frac{6439170}{30} = \underline{214639}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
11/31/2016=	3896.9	3714.1
11/1/2016=	<u>3809.1</u>	<u>3635.3</u>
Totals in Hours	87.8	78.8

	Pump 1	Pump 2
Hours x	87.8	78.8
GPM average x	629.7	668.6
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3317365	3161141

Percent Difference

Pump 1  $\frac{3317365 - 3308100}{3308100} = 0.3\%$  calculated volume is greater than metered volume

Pump 2  $\frac{3161141 - 3131070}{3131070} = 1.0\%$  calculated volume is greater than metered volume



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**Cayucos Sanitary District Monthly Flow Report for November 2016**

**Total Volume Recorded at Lift Station 5: 6,439,170 Gallons**

**Monthly Average Daily Flow: 214,639 Gallons**

Reporting Dates: November 1 through 30

Number of Days: 30

Rainfall Estimate: 2.7"

Comments: Current CAN-17 set to ~ 15gpd

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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 3,308,100 Gallons

Meter 2 = 3,131,070 Gallons

Cayucos Sanitary District  
Lift Station 5 Flow Calculations

Reporting Month/Year: December 2016  
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
12/31/2016=	28730340	26908000
12/1/2016=	<u>24197040</u>	<u>22889730</u>
Totals in Gallons	4533300	4018270

Lift Station 5 Volume 4533300 + 4018270 = 8551570 Gallons

Monthly Average Daily Flow  $\frac{8551570}{31} = \underline{275857.1}$  Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
12/31/2016=	4017.3	3816.2
12/1/2016=	<u>3896.9</u>	<u>3714.1</u>
Totals in Hours	120.4	102.1

	Pump 1	Pump 2
Hours x	120.4	102.1
GPM average x	629.7	668.6
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	4549097	4095844

Percent Difference

Pump 1  $\frac{4549097 - 4533300}{4533300} = 0.3\%$  calculated volume is greater than metered volume

Pump 2  $\frac{4095844 - 4018270}{4018270} = 1.9\%$  calculated volume is greater than metered volume



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**Cayucos Sanitary District Monthly Flow Report for December 2016**

**Total Volume Recorded at Lift Station 5: 8,551,570 Gallons**

**Monthly Average Daily Flow: 275,857 Gallons**

Reporting Dates: December 1 through 31

Number of Days: 31

Rainfall Estimate: 4.5"

Comments: Current CAN-17 set to ~ 15gpd

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Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 4,533,300 Gallons

Meter 2 = 4,018,270 Gallons