Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: January 2019
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
1/31/2019=	30130180	22600880
1/1/2019=	25390520	18479120
Totals in Gallons	4739660	4121760

Lift Station 5 Volume 4739660 + 4121760 = 8861420 Gallons

Monthly Average Daily Flow $\frac{8861420}{31}$ = 285852.26 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
1/31/2019=	6468.3	5857.9
1/1/2019=	6345.1	5764.8
Totals in Hours	123.2	93.1

	Pump 1	Pump 2
Hours x	123.2	93.1
GPM average x	643.06	725.56
Minutes/Hr	60	60
Total Gallonage	4753500	4052978

Percent Difference

Pump 1 $\frac{4753500 - 4739660}{4739660}$ = 0.3 % calculated volume is greater than metered volume

Pump 2 $\frac{4052978 - 4121760}{4121760}$ = -1.7 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for January 2019

Total Volume Recorded at Lift Station 5: 8,861,420

Monthly Average Daily Flow: 285,852 Gallons

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

Rainfall Estimate: 5.9"

Comments: _____

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

Meter 1 = 4,739,660 Gallons
Meter 2 = 4,121,760 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: March 2019
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
3/31/2019=	40823660	32176720
3/1/2019=	35748580	27589550
Totals in Gallons	5075080	4587170

Lift Station 5 Volume 5075080 + 4587170 = 9662250 Gallons

Monthly Average Daily Flow $\frac{9662250}{31}$ = 311685.48 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
3/31/2019=	6758.8	6083.8
3/1/2019=	6619.9	5975.0
Totals in Hours	138.9	108.8

LINE 1 39952110+871550=**40823660**
LINE 2 31273710+903010=**32176720**

CALIBRATION CALCULATION

	Pump 1	Pump 2
Hours x	138.9	108.8
GPM average x	611.01	698.78
Minutes/Hr	60	60
Total Gallonage	5092157	4561636

Percent Difference

Pump 1 $\frac{5092157 - 5075080}{5075080}$ = 0.3 % calculated volume is greater than metered volume

Pump 2 $\frac{4561636 - 4587170}{4587170}$ = -0.6 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for March 2019

Total Volume Recorded at Lift Station 5: 9,662,250

Monthly Average Daily Flow: 311,685 Gallons

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

Rainfall Estimate: 3.75”

Comments: Flow meters were calibrated on 3/25/19 with Jensen Instruments
Pre flow meter reset reading; Line 1- 39952110 Line 2- 31273710

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

Meter 1 = 5,075,080 Gallons
Meter 2 = 4,587,170 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: April 2019
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
4/30/2019=	4264180	4314900
4/1/2019=	871550	903010
Totals in Gallons	3392630	3411890

Lift Station 5 Volume 3392630 + 3411890 = 6804520 Gallons

Monthly Average Daily Flow $\frac{6804520}{30}$ = 226817.33 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
4/30/2019=	6856.8	6161.3
4/1/2019=	6758.8	6083.8
Totals in Hours	98.0	77.5

	Pump 1	Pump 2
Hours x	98.0	77.5
GPM average x	611.01	698.78
Minutes/Hr	60	60
Total Gallonage	3592739	3249327

Percent Difference

Pump 1 $\frac{3592739 - 3392630}{3392630}$ = 5.9 % calculated volume is greater than metered volume

Pump 2 $\frac{3249327 - 3411890}{3411890}$ = -4.8 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for April 2019

Total Volume Recorded at Lift Station 5: 6,804,520

Monthly Average Daily Flow: 226,817 Gallons

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

Rainfall Estimate: .10"

Comments: _____

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

Meter 1 = 3,392,630 Gallons
Meter 2 = 3,411,890 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: May 2019
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
5/31/2019=	7596350	7686120
5/1/2019=	4264180	4314900
Totals in Gallons	3332170	3371220

Lift Station 5 Volume 3332170 + 3371220 = 6703390 Gallons

Monthly Average Daily Flow $\frac{6703390}{31}$ = 216238.39 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
5/31/2019=	6952.1	6237.4
5/1/2019=	6856.8	6161.3
Totals in Hours	95.3	76.1

	Pump 1	Pump 2
Hours x	95.3	76.1
GPM average x	583.64	730.9
Minutes/Hr	60	60
Total Gallonage	3337254	3337289

Percent Difference

Pump 1 $\frac{3337254 - 3332170}{3332170}$ = 0.2 % calculated volume is greater than metered volume

Pump 2 $\frac{3337289 - 3371220}{3371220}$ = -1.0 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for May 2019

Total Volume Recorded at Lift Station 5: 6,703,390

Monthly Average Daily Flow: 216,238 Gallons

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

Rainfall Estimate: 1.70"

Comments: _____

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

Meter 1 = 3,332,170 Gallons
Meter 2 = 3,371,220 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: June 2019
Number of Days in Month: 28

Metered Volumes

Date	Pump 1	Pump 2
6/28/2019=	10868220	11069310
6/1/2019=	7596350	7686120
Totals in Gallons	3271870	3383190

Lift Station 5 Volume 3271870 + 3383190 = 6655060 Gallons

Monthly Average Daily Flow $\frac{6655060}{28}$ = 237680.71 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
6/28/2019=	7046.3	6311.4
6/1/2019=	6952.1	6237.4
Totals in Hours	94.2	74.0

	Pump 1	Pump 2
Hours x	94.2	74.0
GPM average x	583.64	752.9
Minutes/Hr	60	60
Total Gallonage	3298733	3342876

Percent Difference

Pump 1 $\frac{3298733 - 3271870}{3271870}$ = 0.8 % calculated volume is greater than metered volume

Pump 2 $\frac{3342876 - 3383190}{3383190}$ = -1.2 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for June 2019

Total Volume Recorded at Lift Station 5: 6,655,060

Monthly Average Daily Flow: 237,681 Gallons

Reporting Dates: June 1 through 28
Number of Days: 28

Rainfall Estimate:

Comments: _____

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

Meter 1 = 3,271,870 Gallons
Meter 2 = 3,383,190 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: July 2019
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
7/31/2019=	14978850	15109660
7/1/2019=	10868220	11069310
Totals in Gallons	4110630	4040350

Lift Station 5 Volume 4110630 + 4040350 = 8150980 Gallons

Monthly Average Daily Flow $\frac{8150980}{31}$ = 262934.84 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
7/31/2019=	7166.9	6400.7
7/1/2019=	7046.3	6311.4
Totals in Hours	120.6	89.3

	Pump 1	Pump 2
Hours x	120.6	89.3
GPM average x	565.52	720.56
Minutes/Hr	60	60
Total Gallonage	4092103	3860760

Percent Difference

Pump 1 $\frac{4092103 - 4110630}{4110630}$ = -0.5 % calculated volume is less than metered volume

Pump 2 $\frac{3860760 - 4040350}{4040350}$ = -4.4 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for July 2019

Total Volume Recorded at Lift Station 5: 8,150,980

Monthly Average Daily Flow: 262,935 Gallons

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

Rainfall Estimate:

Comments: _____

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

Meter 1 = 4,110,630 Gallons
Meter 2 = 4,040,350 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: August 2019
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
8/31/2019=	18219610	18490860
8/1/2019=	14978850	15109660
Totals in Gallons	3240760	3381200

Lift Station 5 Volume 3240760 + 3381200 = 6621960 Gallons

Monthly Average Daily Flow $\frac{6621960}{31}$ = 213611.61 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
8/31/2019=	7266.8	6480.0
8/1/2019=	7166.9	6400.7
Totals in Hours	99.9	79.3

	Pump 1	Pump 2
Hours x	99.9	79.3
GPM average x	536.48	675.85
Minutes/Hr	60	60
Total Gallonage	3215661	3215694

Percent Difference

Pump 1 $\frac{3215661 - 3240760}{3240760}$ = -0.8 % calculated volume is less than metered volume

Pump 2 $\frac{3215694 - 3381200}{3381200}$ = -4.9 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for August 2019

Total Volume Recorded at Lift Station 5: 6,621,960

Monthly Average Daily Flow: 213,612 Gallons

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

Rainfall Estimate:

Comments: _____

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

Meter 1 = 3,240,760 Gallons
Meter 2 = 3,381,200 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: September 2019
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
9/30/2019=	20998900	21472070
9/1/2019=	18219610	18490860
Totals in Gallons	2779290	2981210

Lift Station 5 Volume 2779290 + 2981210 = 5760500 Gallons

Monthly Average Daily Flow $\frac{5760500}{30}$ = 192016.67 Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
9/30/2019=	7357.8	6552.5
9/1/2019=	7266.8	6480.0
Totals in Hours	91.0	72.5

	Pump 1	Pump 2
Hours x	91.0	72.5
GPM average x	513.19	655
Minutes/Hr	60	60
Total Gallonage	2802017	2849250

Percent Difference

Pump 1 $\frac{2802017 - 2779290}{2779290}$ = 0.8 % calculated volume is greater than metered volume

Pump 2 $\frac{2849250 - 2981210}{2981210}$ = -4.4 % calculated volume is less than metered volume

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Cayucos Sanitary District Monthly Flow Report for September 2019

Total Volume Recorded at Lift Station 5: 5,760,500

Monthly Average Daily Flow: 192,017 Gallons

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

Rainfall Estimate:

Comments: _____

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

Meter 1 = 2,779,290 Gallons
Meter 2 = 2,981,210 Gallons