NMED – Water Loss Control Training Program Small Systems Workshop #2 – Data Inputs Exercise

Supply

The Town Water Utility (TWU) is a small-sized water utility located in the Southwestern United States. The TWU services both urban and rural areas within its county service area. Water is produced from 3 wells at separate locations around the system, and delivered through 3 separate finished water meters (turbine style). TWU buys no bulk water supply from any neighboring water authorities. TWU sells water in bulk to a neighboring utility (Walterville).

Lesson.			muter fe		
Production Report for 2014	Well #1 Meter (MG)	Well #2 Meter (MG)	Well #3 Meter (MG)	Total	MUTO NO
January	12.34	10.20	5.61	22.54	28.15
February	10.16	8.40	4.62	18.56	23.18
March	13.79	11.40	6.27	25.19	\$1.46
April	15.97	13.20	7.26	29.17	34,43
May	21.05	17.40	9.57	38.45	48.02
June	21.78	18.00	9.90	39.78	49.68
July	24.68	20.40	11.22	45.08	56.30
August	26.14	21.60	11.88	47.74	58.62
September	21.78	18.00	9.90	39.78	49.68
October	17.42	14.40	7.92	31.82	39.74
November	14.52	12.00	6.60	26.52	33.12
December	13.07	10.80	5.94	23.87	24.81
Total (MG)	212.72	175.80	96.69 - 485,21	388.52	485.19

FWM Accuracy Test Report	Well #1	Well #2	Well #3
Date	2/3/2014	2/4/2014	2/5/2014
Duration	6 hr	6 hr	6 hr
Method	Clamp-on (ultrasonic)	Comparitive meter (test port)	Clamp-on (ultrasonic)
Accuracy Result	6.30%	1.10%	2.80%
Over/Under	Over	Under	Under

oknot on some date

Master Meter Error Calculation: 6.3% - 1.3% - 2.8% = 2.2%.

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untilled

Unmetered Usage Report	Estimated Volume for 2014		
WQ flushing	2.350 MG		
Complaint flushing	0.059 MG		
Repair flushing	0.850 MG		
Fire Dept	1.758 MG		
Leaks found	8.575 MG		
New construction flushing	2.220 MG		
Street cleaning	0.980 MG		
Sewer jetting	4.150 MG		

exclude leaks = real los

Billing System Report: Water Sold 2014

Month	Residential Billed	Non-Residential Billed	Wholesale (Exported)	Total
January	7,116,213	6,523,196	5,930,178	19,569,587
February	5,860,411	5,372,043	4,883,676	16,116,130
March	7,953,415	7,290,630	6,627,846	21,871,891
April '	9,209,217	8,441,783	7,674,348	25,325,348
May	12,139,423	11,127,804	10,116,186	33,383,413
June	12,558,024	11,511,522	10,465,020	34,534,565
July	14,232,427	13,046,391	11,860,356	39,139,174
August	15,069,628	13,813,826	12,558,024	41,441,478
September	12,558,024	11,511,522	10,465,020	34,534,565
October	12,880,024	11,806,689	10,733,354	35,420,067
November	8,372,016	7,674,348	6,976,680	23,023,043
December	7,534,814	6,906,913	6,279,012	20,720,739
Total (gal)	125,483,636	115,026,667	104,569,697	345,080,000

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240,510303	Billed (Metered

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Class	Rate Code	Rate (\$/kgal)
Residential Water	WRES	\$4.65
Non-Residential Water	WNR	\$5,65
00Residential Sewer	SRES	\$5.81
Non-Residential Sewer	SNR	\$7.06

Ratio of sewer volume to water volume sold = 67%