

Definitions/Instructions/Data Sources

Quantities in Thousand Gallons Increments

Template	Item Description	Instructions/Definitions
Line 1	Initial Purchased Water Quantity	<p>This is the amount of water billed on the invoice from the supplier. Most suppliers bill on a calendar month. If the supplier does not, then either post the invoice in the dominant month, or allocate the purchase across the month(s) based on days of service. Make note of the methodology in the Comments section under the service area. Note: The source here must be the supplier invoice, and not the amount recorded in the IAWC VADARS system/IEPA reports. The internal reports sometime utilize IAWC's system meter rather than the supplier's meter, which is often unavailable for IEPA purposes.</p>
2	Supplier Billing Adjustments	Record non-routine adjustments made by supplier for items such as tested meter back bills.
3	Total Purchased Water	Sum of Lines 1+2
4	Hydrant Flushing and Inspection	<p>This is the amount of water recorded by the Regulatory group for annual hydrant inspection/flushing of each hydrant. These quantities are recorded in either the CMMS system or via IPAD data collection at the time of the flushing activity and consolidated monthly. After May 2013, the information may be recorded in the Mobile Click/SAP system replacing CMMS. Note: In early 2012, there were two equipment options used for flushing, one for routine flushing activity and the other for hydrant capacity tests (25% of the hydrant group is tested for flow capacity annually). The first methodology used a totalizer device; the second capacity test equipment recorded a flow rate. This flow rate, multiplied by the time of the flushing event, gave us the total water volume discharged. Later in 2012, a review of the two equipment items concluded the totalizer device was understating the amount of water discharged from the hydrant. We have transitioned to the flow rate/time methodology and will use this exclusively going forward.</p>
5	System Hydrant Flow Tests	Water used during non-routine hydrant flow tests requested by IAWC staff or by external entities. Volume estimated based on flow rate multiplied by length of test.
6	IAWC Sewer Cleaning	IAWC staff record the number of loads of water used in sewer cleaning daily, multiplying quantity by known tank volume of the vacuor or jetter truck to determine volume of water used. Collection systems are typically cleaned on a four year cycle so some systems may not see sewer cleaning water in a particular year. Also captures water used to clean lift stations. Note: Some collection only systems haul water from adjacent IAWC water systems. Record the use against the system supplying the water if water used in another system.
7	Fire Department Usage	Record here the volume of unmetered water used and reported by fire departments for fire fighting, fire department training, and hydrant testing. Make note in the Comments section of the service area the specific fire districts serving the service area. (ex: Bolingbrook Fire Department covers West Suburban District).
8	Water Quality Monitoring	Record quantity of water used by continuous water quality monitoring devices(chlorine, fluoride). Use the flow rate set for the device and assume 24 x 7x 365 use.
9	Goodwill Adjustments-Billing	Record goodwill adjustments on customer's bills for items such as leaks and billing errors.
10	Unbilled Metered Municipal Use	Volume of water used through portable hydrant meters for street sweeping and other public activities.
11	Draining Storage Tanks	Record amount of water discharged for activities such as tank painting and inspection. Record in Comments section tank designation and estimated quantity of water discharged from tank to street/ storm sewers.
12	IAWC Construction Projects-Water	Record amount of water used, both metered and unmetered, for activities such as water main replacements, water main lining, hydrant and valve replacements, and other construction activities. When use is from hydrant or valve installation, estimate volume of water flushed to waste once line is brought back in service.

13	Sewer Lining Projects	Water used for sewer cleaning, televising and lining projects by outside contractors.
14	Water Quality Flushing	Estimate water flushed from hydrants, water services, and blow offs in response to customer water quality complaints. Also included here is any water used for water quality flushing by production operations, customer service and field service maintenance(hydrant and valve replacement, and main breaks) independent of the annual regulatory inspections. These volumes will be estimated using flushing time and an estimated flow rate. Additionally, some smaller systems require more routine flushing (quarterly or monthly) to maintain system water quality. Record these volumes, typically estimated by the system operator based on a comparison against previous or next day system delivery.
15	Bacteriological Sample Collection	Bacteriological samples are collected monthly in all water systems. Water is flushed from the various sample stations throughout the system. Make an estimate of the volume flushed per site, and calculate volume monthly based on number of required samples.
16	Other	Any other unmetered water used, and not recorded above. Note: Water main break leak losses are not included here. These volumes are a component of NRW. However, hydrant flushing for water quality purposes associated with main breaks repairs should be included in Line 14- Water Quality Flushing.
17	Total Unbilled Authorized Consumption	Sum of Lines 4 thru 16
18	Percent Unbilled Authorized Consumption	Line 17 divided by Line 4, expressed as a percentage

Water Quality Flushing - Field Service Construction Activities
10/4/2013 to 10/30/13

Service Area	Date	Type	Time Hydrant Flushed in Minutes	
West Suburban	4-Oct	Water Main Repair	0	Confirmed
West Suburban	4-Oct	Hydrant Repair	40	Confirmed
Homer Township	7-Oct	Water Main Repair	0	Confirmed
Sante Fe	8-Oct	Hydrant Replacement	40	Confirmed
Homer Township	9-Oct	Water Main Repair	60	Confirmed
Homer Township	9-Oct	Water Main Repair	60	Confirmed
Homer Township	9-Oct	Hydrant Replacement	60	Confirmed
Homer Township	11-Oct	Water Main Repair	0	Confirmed
West Suburban	10-Oct	Water Main Replacement	30	Confirmed
West Suburban	10-Oct	Water Main Repair	60	Confirmed
West Suburban	10-Oct	Water Main Replacement	0	Confirmed
Homer Township	12-Oct	Hydrant Replacement	50	Confirmed
West Suburban	14-Oct	Water Main Repair	0	Confirmed
Midwest Palos	16-Oct	Water Main Replacement	50	Confirmed
Valley View	17-Oct	Water Main Replacement	55	Confirmed
West Suburban	20-Oct	Water Main Repair	0	Confirmed
Ridgecrest	21-Oct	Water Main Repair	0	Confirmed
West Suburban	23-Oct	Water Main Replacement	120	Confirmed
West Suburban	24-Oct	Hydrant Replacement	30	Confirmed
Chicago Suburban	25-Oct	Water Main Repair	75	Confirmed
West Suburban	25-Oct	Water Main Repair	45	Confirmed
West Suburban	25-Oct	Hydrant Replacement	0	Confirmed
Valley View	25-Oct	Water Main Repair	0	Confirmed
West Suburban	26-Oct	Saddle Leak/Water Main Repair	45	Confirmed
West Suburban	26-Oct	Hydrant Replacement	30	Confirmed
West Suburban	28-Oct	Water Main Replacement	30	Confirmed
Country Club	29-Oct	Water Main Replacement	45	Confirmed
West Suburban	30-Oct	Hydrant Replacement	0	Confirmed
West Suburban	30-Oct	Hydrant Replacement	68	Confirmed
West Suburban	31-Oct	Water Main Repair	0	Confirmed
Total Minutes Flushed			993	
Total Locations			30	
Average Minutes Per Site			33.1	
Average Minute Per Site excluding eleven(11) Zero Minute Sites(which were excluded from October reporting lists)			52.26	

Time not recorded

KFH	Alpine Heights Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	1,219.000	1,083.000	1,216.000	1,448.000	1,054.000	1,349.000	2,398.000	2,299.000	1,512.000	1,035.000	1,239.000	1,243.000	17,095.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	1,219.000	1,083.000	1,216.000	1,448.000	1,054.000	1,349.000	2,398.000	2,299.000	1,512.000	1,035.000	1,239.000	1,243.000	17,095.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	1,219.000	1,083.000	1,216.000	1,448.000	1,054.000	1,349.000	2,398.000	2,299.000	1,512.000	1,035.000	1,239.000	1,243.000	17,095.000
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.000	0.000	0.000	172.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	172.300
5	System Hydrant Flow Tests	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	IAWC Sewer Cleaning	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	Fire Department Usage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	Water Quality Monitoring	2.976	2.688	2.976	2.880	2.976	2.880	2.976	2.976	2.880	2.976	2.880	2.976	35.040
9	Goodwill Adjustments-Billing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	Unbilled Metered Municipal Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	Draining Storage Tanks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	IAWC Construction Projects-Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	Sewer Lining Projects	0.000	0.000	0.000	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.000
14	Water Quality Flushing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	Bacteriological Sample Collection	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	Other	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	Total Unbilled Authorized Consumption	2.976	2.688	2.976	179.180	2.976	2.880	2.976	2.976	2.880	2.976	2.880	2.976	211.340
18	Percent Unbilled Authorized Consumption	0.24%	0.25%	0.24%	12.37%	0.28%	0.21%	0.12%	0.13%	0.19%	0.29%	0.23%	0.24%	1.24%
	<u>Comments:</u>													
Line 1	Start read date for January billing 1/2/13. Final read date for December billing													
Line 3	IAWC Production Reports for calendar month may not match billing cycle for purchased water 4/10/13: ME Simpson performed annual meter test of purchased water meter.													
Line 4	Hydrant Flushing completed April, 2013. Total hydrant count in Alpine service area = 43													
Line 7:	No fire department use information received													
Line 8	Analyzer (chlorine) at meter station site. Flow rate of 4 gal/hr -24 x 7 Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location Number of analyzers 1													
Line 13	Lateral Lining for Haven Ave in April													
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume								
	Water Main Break-Repair				30	0	0							
Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements. A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.														

KFH	Arrowhead Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	3,898.000	3,599.000	3,688.000	3,456.000	4,008.000	4,079.000	4,856.000	5,070.000	4,258.000	3,549.000	3,605.000	4,218.000	48,284.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	3,898.000	3,599.000	3,688.000	3,456.000	4,008.000	4,079.000	4,856.000	5,070.000	4,258.000	3,549.000	3,605.000	4,218.000	48,284.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	3,898.000	3,599.000	3,688.000	3,456.000	4,008.000	4,079.000	4,856.000	5,070.000	4,258.000	3,549.000	3,605.000	4,218.000	48,284.000
	Unbilled Authorized Consumption(UAC)													
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	0.00	0.00	304.50	203.60	0.00	0.00	0.00	0.00	0.00	508.10
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	IAWC Sewer Cleaning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Fire Department Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Water Quality Monitoring	2.98	2.69	2.98	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	2.98	35.04
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.00	0.00	40.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sewer Lining Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Water Quality Flushing	54.00	0.00	81.00	0.00	0.00	27.00	27.00	0.00	27.00	0.00	0.00	108.00	324.00
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	56.98	2.69	83.98	2.88	2.98	334.38	233.58	2.98	29.88	42.98	2.88	110.98	907.14
18	Percent Unbilled Authorized Consumption	1.46%	0.07%	2.28%	0.08%	0.07%	8.20%	4.81%	0.06%	0.70%	1.21%	0.08%	2.63%	1.88%

KFH	Chicago Suburban-Glenview Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	50,540.000	44,920.000	49,240.000	47,760.000	51,890.000	51,609.000	55,710.000	55,960.000	46,651.000	47,784.000	45,481.000	49,156.000	596,701.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	50,540.000	44,920.000	49,240.000	47,760.000	51,890.000	51,609.000	55,710.000	55,960.000	46,651.000	47,784.000	45,481.000	49,156.000	596,701.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	50,540.000	44,920.000	49,240.000	47,760.000	51,890.000	51,609.000	55,710.000	55,960.000	46,651.000	47,784.000	45,481.000	49,156.000	596,701.000
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	158.20	318.00	1,505.85	111.15	0.00	0.00	0.00	0.00	0.00	2,093.20
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	IAWC Sewer Cleaning	2.00	9.00	2.00	2.00	4.50	7.00	6.50	52.00	82.00	40.50	14.50	0.00	222.00
7	Fire Department Usage	0.00	0.00	0.00	2.50	0.00	0.00	4.20	0.00	0.00	0.00	0.00	0.00	6.70
8	Water Quality Monitoring	5.95	5.38	5.95	5.76	5.95	5.76	5.95	5.95	5.76	5.95	5.76	5.95	70.08
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.68	0.00	0.00	0.00	0.00	59.68
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sewer Lining Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Water Quality Flushing	195.00	156.00	117.00	39.00	39.00	39.00	78.00	78.00	156.00	39.00	0.00	273.00	1,209.00
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	202.95	170.38	124.95	207.46	477.45	1,557.61	205.80	195.63	243.76	85.45	20.26	278.95	3,770.66
18	Percent Unbilled Authorized Consumption	0.40%	0.38%	0.25%	0.43%	0.92%	3.02%	0.37%	0.35%	0.52%	0.18%	0.04%	0.57%	0.63%

KFH	Country Club Estates - Wtr Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	2,703.000	2,363.000	2,483.000	2,428.000	2,976.000	2,586.000	3,070.000	3,451.000	3,377.000	3,525.000	3,410.000	3,654.000	36,026.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	2,703.000	2,363.000	2,483.000	2,428.000	2,976.000	2,586.000	3,070.000	3,451.000	3,377.000	3,525.000	3,410.000	3,654.000	36,026.000
2	Supplier Billing Adjustments	4.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.470
3	Total Purchased Water	2,707.470	2,363.000	2,483.000	2,428.000	2,976.000	2,586.000	3,070.000	3,451.000	3,377.000	3,525.000	3,410.000	3,654.000	36,030.470
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	33.90	0.00	91.17	0.00	0.00	0.00	0.00	0.00	0.00	125.07
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	IAWC Sewer Cleaning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Fire Department Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Water Quality Monitoring	2.98	2.69	2.98	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	2.98	35.04
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sewer Lining Projects	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.60
14	Water Quality Flushing	30.00	0.00	30.00	0.00	30.00	0.00	30.00	0.00	60.00	30.00	0.00	0.00	210.00
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	32.98	2.69	32.98	36.78	68.58	94.05	32.98	2.98	62.88	32.98	2.88	2.98	405.71
18	Percent Unbilled Authorized Consumption	1.22%	0.11%	1.33%	1.51%	2.30%	3.64%	1.07%	0.09%	1.86%	0.94%	0.08%	0.08%	1.13%

Line 1	<u>Comments:</u>									
Line 3	DuPage Water Commission Invoicing Based on Calendar Month									
	DuPage Water Commission tested the Country Club purchased water meters on 3/2019/13. Meter 15096029 (one of two master meters) tested at 95.6% at a flow of 130 GPM. Meter/account backbilled from mid August 2012 for 2.4% of this meters flow back to minimum range 98%. Adjustments allocated per DWC detail provided.									
Line 4	Hydrant Flushing completed from April to June, 2013. Total hydrant count in Country Club service area = 38									
Line 7:	No fire department use information received									
Line 8	Analyzer (chlorine) at booster station site. Flow rate of 4 gal/hr -24 x 7									
	Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location									
	Number of analyzers 1									
Line 9	Goodwill and Courtesy Adjustments 1/1/13-5/20/13 from ECIS-Posted in May									
			May-13	2,000	gals					
Line 13	Country Club Sewer Lining(R25-96B1.13-P-0002) 6436 LF of 8" sewer. Completed May-13 33,600 gals									
	Hoerr Construction(stopped meter- steam cure method- assume 2x pipe volume for water)									
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume				
	Water Main Break-Repair	January	1000	1	30	30,000	30,000			
	Water Main Break-Repair	March	1000	1	30	30,000	30,000			
	Hydrant Replacement	May	1000	1	30	30,000	30,000			
	Water Main Break-Repair	July	1000	1	30	30,000	30,000			
	Water Main Break-Repair	September	1000	2	30	60,000	60,000			
	Water Main Break-Replace	October	1000	1	30	30,000	30,000			
							210,000			
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements.									
	A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.									

KFH DuPage Lisle Service Area														
FINAL Year = 2013														
Quantities in 1000 gals														
Month	January	February	March	April	May	June	July	August	September	October	November	December	Total	
1	Purchased Water Invoice Quantity	12,639.000	10,820.000	12,291.000	11,690.000	12,975.000	12,280.000	13,525.000	14,304.000	12,513.000	11,820.000	11,597.000	12,856.000	149,310.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	12,639.000	10,820.000	12,291.000	11,690.000	12,975.000	12,280.000	13,525.000	14,304.000	12,513.000	11,820.000	11,597.000	12,856.000	149,310.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	12,639.000	10,820.000	12,291.000	11,690.000	12,975.000	12,280.000	13,525.000	14,304.000	12,513.000	11,820.000	11,597.000	12,856.000	149,310.000
Unbilled Authorized Consumption(UAC)														
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	686.00	94.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	780.60
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	IAWC Sewer Cleaning	0.00	4.00	11.00	0.00	3.00	0.00	0.00	1.50	0.00	0.00	1.50	0.00	21.00
7	Fire Department Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Water Quality Monitoring	2.98	2.69	2.98	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	2.98	35.04
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sewer Lining Projects	0.00	0.00	5.75	0.00	0.00	5.75	0.00	0.00	5.75	0.00	0.00	0.00	17.25
14	Water Quality Flushing	169.50	67.80	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.60	406.80
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	172.48	74.49	53.63	688.88	105.58	8.63	2.98	4.48	8.63	2.98	4.38	138.58	1,265.69
18	Percent Unbilled Authorized Consumption	1.36%	0.69%	0.44%	5.89%	0.81%	0.07%	0.02%	0.03%	0.07%	0.03%	0.04%	1.08%	0.85%
Comments:														
Line 1														
Line 3	DuPage Water Commission Invoicing Based on Calendar Month													
	DuPage Water Commission tested the DuPage purchased water meters on 3/19/13. No inaccuracy or subsequent backbilling issues were reported.													
Line 4	Hydrant Flushing completed in April and May, 2013. Total hydrant count in DuPage(Lisle) service area = 198													
Line 7:	No fire department use information received													
Line 8	Analyzer (chlorine) at booster station site. Flow rate of 4 gal/hr -24 x 7 Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location Number of analyzers 1													
Line 9	Goodwill and Courtesy Adjustments 1/1/13-5/20/13 from ECIS-Posted in May May-13 2,000 gals													
Line 12														
Line 13	Performance Pipelining- Meter held from 11/8/12-10/11/13- Used in Bolingbrook and Lisle for sewer lateral lining- Total volume 123,000 gallons. Assume 23K to Lisle and 100K to Bolingbrook. Spread quarterly December- March July-September. Dec 2012, March 2013, June 2013, September 2013 5750 gals per quarter													
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume								
	Water Main Break-Repair	January	1130	5	30	169,500	169,500							
	Water Valve-Replace	February	1130	1	30	33,900								
	Water Valve-Repair	February	1130	1	30	33,900	67,800							
	Water Main Break-Repair	March	1130	1	30	33,900	33,900							
	Water Main Break - Replacement	December	1130	1	30	33,900								
	Hydrant Replacement	December	1130	3	30	101,700	135,600							
Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements. A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.														

KFH	Ferway - Tinley Park Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	14,057.00	12,567.00	13,620.00	13,735.00	15,406.00	15,786.00	19,313.00	17,392.00	14,546.00	13,548.00	13,667.00	14,904.00	178,541.000
	Less wheeling adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Purchased Water	14,057.00	12,567.00	13,620.00	13,735.00	15,406.00	15,786.00	19,313.00	17,392.00	14,546.00	13,548.00	13,667.00	14,904.00	178,541.000
2	Supplier Billing Adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Total Purchased Water	14,057.00	12,567.00	13,620.00	13,735.00	15,406.00	15,786.00	19,313.00	17,392.00	14,546.00	13,548.00	13,667.00	14,904.00	178,541.000
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.000	0.000	0.000	115.400	719.600	829.740	0.000	0.000	11.900	0.000	0.000	0.000	1,676.640
5	System Hydrant Flow Tests	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	IAWC Sewer Cleaning	0.000	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	23.500	0.000	3.000	28.500
7	Fire Department Usage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	Water Quality Monitoring	2.976	2.688	2.976	2.880	2.976	2.880	2.976	2.976	2.880	2.976	2.880	2.976	35.040
9	Goodwill Adjustments-Billing	0.000	0.000	0.000	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000
10	Unbilled Metered Municipal Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	54.000	0.000	0.000	0.000	54.000
11	Draining Storage Tanks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	IAWC Construction Projects-Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	Sewer Lining Projects	0.000	0.000	0.000	4.000	19.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23.550
14	Water Quality Flushing	120.000	30.000	0.000	300.000	30.000	180.000	210.000	90.000	0.000	0.000	0.000	60.000	1,020.000
15	Bacteriological Sample Collection	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	Other	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	Total Unbilled Authorized Consumption	122.976	32.688	4.976	422.280	774.126	1,012.620	212.976	92.976	68.780	26.476	2.880	65.976	2,839.730
18	Percent Unbilled Authorized Consumption	0.87%	0.26%	0.04%	3.07%	5.02%	6.41%	1.10%	0.53%	0.47%	0.20%	0.02%	0.44%	1.59%

Comments:													
Line 1	DuPage Water Commission Invoicing Based on Calendar Month												
	DuPage Water Commission tested the Liberty East purchased water meter on 3/20/13. No inaccuracy or subsequent backbilling issues were reported.												
Line 4	Hydrant Flushing completed in May and June , 2013. Total hydrant count in Liberty East service area = 21												
Line 7:	No fire department use information received												
Line 8	Analyzer (chlorine) at well house site. Flow rate of 4 gal/hr -24 x 7												
	Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location												
	Number of analyzers												
	1												
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume							
	Water Valve-Replace	March	200	1	30	6,000	6,000						
	Hydrant Repair	April	200	1	30	6,000	6,000						
	After reviewing operations log, adjusted Liberty Ridge flow rate to 200 gpm. There is no storage in this system and delivery rates are limited, and operations logs indicate a lower overall volume flushed.												
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements.												
	A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.												

<u>Comments:</u>													
Line 1	DuPage Water Commission Invoicing Based on Calendar Month												
	DuPage Water Commission tested the Liberty West purchased water meter on 3/20/13. No inaccuracy or subsequent backbilling issues were reported.												
Line 7:	No fire department use information received												
Line 4	Hydrant Flushing completed from June , 2013. Total hydrant count in Liberty Ridge West service area = 168												
Line 8	Analyzer (chlorine) at well house site. Flow rate of 4 gal/hr -24 x 7												
	Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location												
	Number of analyzers												
	1												
Line 9	Goodwill and Courtesy Adjustments 1/1/13-5/20/13 from ECIS-Posted in May												
		May-13	4,000	gals									
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume							
	Water Main Break-Repair	January	1000	1	30	30,000	30,000						
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements.												
	A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.												

KFH	Lombard Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	1,293.00	1,210.00	1,285.00	1,146.00	1,216.00	1,236.00	1,108.00	1,214.00	1,070.00	1,034.00	1,217.00	1,201.00	14,230.000
	Less wheeling adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Purchased Water	1,293.00	1,210.00	1,285.00	1,146.00	1,216.00	1,236.00	1,108.00	1,214.00	1,070.00	1,034.00	1,217.00	1,201.00	14,230.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	1,293.000	1,210.000	1,285.000	1,146.000	1,216.000	1,236.000	1,108.000	1,214.000	1,070.000	1,034.000	1,217.000	1,201.000	14,230.000
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.000	0.000	0.000	0.000	47.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	47.250
5	System Hydrant Flow Tests	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	IAWC Sewer Cleaning	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	Fire Department Usage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	Water Quality Monitoring	2.976	2.688	2.976	2.880	2.976	2.880	2.976	2.976	2.880	2.976	2.880	2.976	35.040
9	Goodwill Adjustments-Billing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	Unbilled Metered Municipal Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	Draining Storage Tanks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	IAWC Construction Projects-Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	Sewer Lining Projects	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	Water Quality Flushing	0.000	30.000	0.000	30.000	0.000	112.500	0.000	0.000	0.000	0.000	0.000	0.000	172.500
15	Bacteriological Sample Collection	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	Other	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	Total Unbilled Authorized Consumption	2.976	32.688	2.976	32.880	50.226	115.380	2.976	2.976	2.880	2.976	2.880	2.976	254.790
18	Percent Unbilled Authorized Consumption	0.23%	2.70%	0.23%	2.87%	4.13%	9.33%	0.27%	0.25%	0.27%	0.29%	0.24%	0.25%	1.79%

<u>Comments:</u>													
Line 1	DuPage Water Commission Invoicing Based on Calendar Month												
	DuPage Water Commission tested the Lombard purchased water meters on 3/19/13. No inaccuracy or subsequent backbilling issues were reported.												
Line 4	Hydrant Flushing completed from May, 2013. Total hydrant count in Lombard service area = 29												
Line 7:	No fire department use information received												
Line 8	Analyzer (chlorine) at well house site. Flow rate of 4 gal/hr -24 x 7												
	Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location												
	Number of analyzers												
	1												
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant (min)	Total Volume							
	Water Main Break-Repair	February	1000	1	30	30,000	30,000						
	Water Valve-Replace	April	1000	1	30	30,000	30,000						
	Hydrant Replacement	June	1000	3	30	90,000	90,000						
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements.												
	A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.												

KFH	Moreland - Chicago Service Area													
	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	1,153.000	1,112.000	1,189.000	988.000	1,170.000	1,287.000	1,446.077	1,479.892	1,303.214	1,116.516	1,062.301	1,069.500	14,376.500
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	1,153.000	1,112.000	1,189.000	988.000	1,170.000	1,287.000	1,446.077	1,479.892	1,303.214	1,116.516	1,062.301	1,069.500	14,376.500
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	1,153.000	1,112.000	1,189.000	988.000	1,170.000	1,287.000	1,446.077	1,479.892	1,303.214	1,116.516	1,062.301	1,069.500	14,376.500
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	0.00	0.00	0.00	37.40	0.00	0.00	0.00	0.00	0.00	37.40
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	IAWC Sewer Cleaning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00	0.00	0.00	0.00	0.00	22.00
7	Fire Department Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Water Quality Monitoring	2.98	2.69	2.98	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	2.98	35.04
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sewer Lining Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Water Quality Flushing	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	19.50	0.00	58.50
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	2.98	22.19	2.98	2.88	2.98	2.88	40.38	24.98	22.38	2.98	22.38	2.98	152.94
18	Percent Unbilled Authorized Consumption	0.26%	2.00%	0.25%	0.29%	0.25%	0.22%	2.79%	1.69%	1.72%	0.27%	2.11%	0.28%	1.06%

KFH	Valley View Service Area													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Purchased Water Invoice Quantity	17,768.000	16,192.000	14,645.000	15,314.000	18,796.000	17,335.000	19,358.000	20,156.000	16,467.000	15,755.000	16,596.000	15,723.000	204,105.000
	Less wheeling adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Net Purchased Water	17,768.000	16,192.000	14,645.000	15,314.000	18,796.000	17,335.000	19,358.000	20,156.000	16,467.000	15,755.000	16,596.000	15,723.000	204,105.000
2	Supplier Billing Adjustments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Total Purchased Water	17,768.000	16,192.000	14,645.000	15,314.000	18,796.000	17,335.000	19,358.000	20,156.000	16,467.000	15,755.000	16,596.000	15,723.000	204,105.000
	Unbilled Authorized Consumption(UAC)													
4	Hydrant Flushing and Inspections	0.000	0.000	0.000	0.000	0.000	0.000	1,049.876	257.850	0.000	0.000	0.000	0.000	1,307.726
5	System Hydrant Flow Tests	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	IAWC Sewer Cleaning	20.000	4.500	3.000	0.000	1.500	4.500	1.500	2.000	0.000	0.000	42.000	0.000	79.000
7	Fire Department Usage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	Water Quality Monitoring	5.952	5.376	5.952	5.760	5.952	5.760	5.952	5.952	5.760	5.952	5.760	5.952	70.080
9	Goodwill Adjustments-Billing	0.000	0.000	0.000	0.000	81.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	81.000
10	Unbilled Metered Municipal Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	Draining Storage Tanks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	IAWC Construction Projects-Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	66.000	0.000	0.000	0.000	66.000
13	Sewer Lining Projects	0.000	0.000	0.000	0.000	0.000	0.000	0.000	170.000	154.000	90.000	43.000	0.000	457.000
14	Water Quality Flushing	75.000	150.000	0.000	0.000	37.500	0.000	75.000	112.500	0.000	37.500	75.000	0.000	562.500
15	Bacteriological Sample Collection	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	Other	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	Total Unbilled Authorized Consumption	100.952	159.876	8.952	5.760	125.952	10.260	1,132.328	548.302	225.760	133.452	165.760	5.952	2,623.306
18	Percent Unbilled Authorized Consumption	0.57%	0.99%	0.06%	0.04%	0.67%	0.06%	5.85%	2.72%	1.37%	0.85%	1.00%	0.04%	1.29%

KFH	Waycinden - DesPlaines Service Area														
FINAL	Year = 2013														
	Quantities in 1000 gals														
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total	
1	Purchased Water Invoice Quantity	14,976.00	10,513.00	11,190.00	13,568.00	11,447.00	14,772.00	13,499.00	14,041.00	14,958.00	11,968.00	10,178.00	13,011.00	154,121.000	
	Less wheeling adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Net Purchased Water	14,976.00	10,513.00	11,190.00	13,568.00	11,447.00	14,772.00	13,499.000	14,041.00	14,958.00	11,968.00	10,178.00	13,011.00	154,121.00	
	Village of Mt Prospect Interconnect				446.00	2,678.00								3,124.00	
2	Supplier Billing Adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	
3	Total Purchased Water	14,976.00	10,513.00	11,190.00	14,014.00	14,125.00	14,772.00	13,499.000	14,041.00	14,958.00	11,968.00	10,178.00	13,011.00	157,245.000	
	Unbilled Authorized Consumption(UAC)														
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	0.00	0.00	0.00	621.60	0.00	0.00	0.00	0.00	0.00	621.60	
5	System Hydrant Flow Tests	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	IAWC Sewer Cleaning	0.00	0.00	0.00	0.00	1.50	0.00	0.00	9.00	24.00	1.50	0.00	0.00	36.00	
7	Fire Department Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	Water Quality Monitoring	2.98	2.69	2.98	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	2.98	35.04	
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	373.00	0.00	0.00	0.00	0.00	373.00	
11	Draining Storage Tanks	0.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	450.00	
12	IAWC Construction Projects-Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	Sewer Lining Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	Water Quality Flushing	90.00	0.00	90.00	90.00	60.00	0.00	30.00	90.00	0.00	0.00	0.00	0.00	450.00	
15	Bacteriological Sample Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	Total Unbilled Authorized Consumption	92.98	2.69	92.98	542.88	64.48	2.88	654.58	474.98	26.88	4.48	2.88	2.98	1,965.64	
18	Percent Unbilled Authorized Consumption	0.62%	0.03%	0.83%	3.87%	0.46%	0.02%	4.85%	3.38%	0.18%	0.04%	0.03%	0.02%	1.25%	

<u>Comments:</u>													
Line 1	Starting bill read date 12/28/2012.												
	When the Linneman storage tank was taken out of service for inspection from April 29 to May 6, 2013, the Waycinden system was served through the Mt Prospect emergency interconnect												
	Total water from Mt Prospect = 3,124 TG, allocated by days(7 total) across the 2 months.												
Line 7:	No fire department use information received												
Line 4	Hydrants flushing completed in July , 2013.												
	Hydrant count for Waycinden service area = 142												
Line 8	Analyzer (chlorine) at Waycinden Well 3. . Flow rate of 4 gal/hr -24 x 7												
	Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location												
	Number of analyzers 1												
Line 11	Linneman Storage Tank Inspection and Cleaning April 29-May 6, 2013- Operator estimated 450,000 gallons discharged to waste.												
Line 14	Description of Activity	Month	Hydrant Flow Rate for Area (gpm)	Work Quantity	Typical Time Per Hydrant(mi n)	Total Volume							
	Water Main Break-Repair	January	1000	3	30	90,000	90,000						
	Water Main Break-Repair	March	1000	3	30	90,000	90,000						
	Water Main Break-Repair	April	1000	3	30	90,000	90,000						
	Water Main Break-Replacement	May	1000	2	30	60,000	60,000						
	Water Main Break-Repair	July	1000	1	30	30,000	30,000						
	Water Main Break-Replacement	August	1000	2	30	60,000							
	Water Main Break-Repair	August	1000	1	30	30,000	90,000						
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements.												
	A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.												

<u>Comments:</u>																			
Line 1	South Beloit adds 12% NRW to the sales volumes provided by IAWC to generate its purchased water quantities. In Jan-Feb they instead added 16% for billing. The difference for these 2 months(4% x Water Sales) was credited back in May.																		
Line 2	Adjustment due to inconsistencies with Billed Revenue Report																		
Line 5	Conducted 14 fire hydrant flow tests on 9/13/13 in advance of ISO inspection. Total water flushed = 31,730 gals.																		
Line 4	Flows tracked in SAP. Need to extract from system.																		
Line 7	South Beloit Fire Department																		
Line 8	Analyzers(chlorine) at office. Flow rate of 4 gal/hr -24 x 7 Volume for 28 Day month = 2688 gals; 29 Day month = 2784 gals; 30 day month = 2880 gals; 31 day month= 2976 gals , per analyzer location Number of analyzers 1																		
Line 11																			
Line 12	Park Avenue and Hemingway Water Mains(R25- 90A1.13-P-0002) 1411' of 8" pipe and 690' of 10" pipe, 7x flush volume consistent with developer tariff Completed Aug-13 40,500 gals																		
Line 14	Gary Owens flushes a hydrant for water quality/samples following a main break. He typically flushes for 30 minutes at an estimated rate of 1200 gpm.																		
		<u>Quantity</u>	<u>Rate</u>	<u>Minutes</u>	<u>Total</u>														
	January	3	1200	30	108,000														
	June	2	1200	30	72,000														
	July	1	1200	30	36,000														
	Water Quality flushing times tracked in October 2013 for hydrant rebuilds and replacements, water main repair and replacements, and valve replacements. A total of 30 work sites averaged 33.1 minutes of average flushing time, confirming the 30 minutes used for Line 14 activity.																		

KFH	IAWC - ALW- Bedford Park Service Area (Homer Glen + Bolingbrook +Santa Fe)													
FINAL	Year = 2013													
	Quantities in 1000 gals													
	Month	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Bedford Park-ALW Purchased Water	307,858.00	280,199.00	312,783.00	308,416.00	364,324.00	374,274.00	462,053.00	456,896.00	399,315.00	377,075.00	319,177.00	321,683.00	4,284,053.00
	less Plainfield Purchased Water	84,047.00	77,498.00	84,884.00	84,507.00	103,913.00	102,195.00	140,262.00	132,520.00	109,944.00	91,457.00	83,311.00	83,652.00	1,178,190.00
	IAWC Purchased Water	223,811.00	202,701.00	227,899.00	223,909.00	260,411.00	272,079.00	321,791.00	324,376.00	289,371.00	285,618.00	235,866.00	238,031.00	3,105,863.00
2	Supplier Billing Adjustments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Total Purchased Water	223,811.00	202,701.00	227,899.00	223,909.00	260,411.00	272,079.00	321,791.00	324,376.00	289,371.00	285,618.00	235,866.00	238,031.00	3,105,863.00
	Production Report Comparison(BB+SF+HG)	224,650.00	202,091.00	228,224.00	224,074.00	259,669.00	259,720.00	320,974.00	323,766.00	286,499.00	254,544.00	213,105.00	222,682.00	3,019,998.00
														0.00
	<u>Unbilled Authorized Consumption(UAC)</u>													
4	Hydrant Flushing and Inspections	0.00	0.00	0.00	2,165.33	2,361.78	3,503.21	6,544.59	7,244.20	14,624.21	11,176.43	5,845.94	0.00	53,465.67
5	System Hydrant Flow Tests	0.00	0.00	3.18	15.90	16.04	3.30	7.50	0.00	75.26	0.00	0.00	0.00	121.18
6	IAWC Sewer Cleaning	6.50	69.60	59.00	79.50	52.50	75.00	139.50	82.00	65.00	166.00	113.50	100.00	1,008.10
7	Fire Department Usage	0.00	0.00	2.70	30.25	8.70	1.00	0.00	0.05	38.00	0.00	2.55	0.00	83.25
8	Water Quality Monitoring	42.41	38.50	42.41	41.04	42.41	41.04	42.41	42.41	41.04	42.41	41.04	42.41	499.51
9	Goodwill Adjustments-Billing	0.00	0.00	0.00	0.00	794.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	794.00
10	Unbilled Metered Municipal Use	0.00	0.00	0.00	0.00	43.00	5.00	5.00	7.00	5.00	31.00	5.00	0.00	101.00
11	Draining Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00	0.00	0.00	640.00
12	IAWC Construction Projects-Water	0.00	0.00	0.00	133.00	0.00	20.56	17.00	17.00	191.00	35.00	111.00	0.00	524.56
13	Sewer Lining Projects	0.00	11.00	25.00	57.12	0.00	25.00	0.00	0.00	43.50	204.50	117.00	0.00	483.12
14	Water Quality Flushing	781.50	262.50	37.50	525.00	187.50	337.50	264.00	450.00	336.00	601.50	375.00	371.40	4,529.40
15	Bacteriological Sample Collection	0.00	0.00	0.00	12.48	0.00	0.00	12.48	0.00	0.00	0.00	0.00	0.00	24.96
16	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Total Unbilled Authorized Consumption	830.41	381.60	169.79	3,059.62	3,505.92	4,011.61	7,032.47	7,842.66	15,419.01	12,896.83	6,611.03	513.81	62,274.75
18	Percent Unbilled Authorized Consumption	0.37%	0.19%	0.07%	1.37%	1.35%	1.47%	2.19%	2.42%	5.33%	4.52%	2.80%	0.22%	2.01%

