

**LAKE LIMERICK COUNTRY CLUB  
WATER COMMITTEE  
MINUTES  
January 11, 2014**

**The meeting was called to order** at 9:00 a.m.

**Roll Call:** Chair Phyllis Antonsen, Secretary Don Bird, Treasurer Scott Carey, Members Steve Saylor and Ken Ayers. Brian Smith is excused.

**Employees** Sheila Hedlund

**Guests:** None

**Approval of Minutes**

**A Motion was made** by Steve Saylor, seconded by Don Bird and passed with no nays as follows:  
To approve the minutes November 9, 2013 as written

**Additions to Agenda:** None

**Comments from Guests:** None

**Financial Report**

1) Review

The Water Testing was discussed due to Sanitary Survey Billing. The actual Survey was done in the previous Fiscal Year, billing was not received until this year. This survey will be added to the Action Item List as a reminder to add the cost into the budget, our next survey is in 2018.

A Motion was made by Don Bird, seconded by Steve Saylor and passed with no nays as follows:  
To approve the minutes Financial reports from November and December 2013

2) Service disconnect status

November, 29 accounts paid in full, 13 accounts made partial payments  
December, 18 accounts paid in full, 10 accounts made partial payments

**Water Distribution Manager's Reports** - December and January

1) L&I license

Bill will be requested to send the L&I Site address to Sheila so that she can begin the process.

2) PUD monthly readings

Don will contact Steve and Bill to request that they continue to record and report the Electrical usage on a monthly basis

3) Steve was called in for freezing problems in December.

There were 7 problems that arose from the freeze in December, 4 of those were LLCC issues, the other 3 were home owners. Bill has offered to give an informative presentation to the membership on how to winterize their homes. It was also suggested that we put something in the newsletter and create hand outs.

## **Action List**

Add: Steps at well#3b to the action item list. This project will have to be accomplished in the spring, Sheila will check with Jason and see if the greens crew can come in a little early to work on this project prior to their start date on the golf course.

## **Correspondence – Forgiveness Request**

**A motion was made** by Scott Carey, seconded by Ken Ayers and passed with no nays as follows:  
To grant the forgiveness request to Luke Draper Account # 100832 for \$654.00.

## **Old Business**

1) Bill's priority list for capital improvements (see Dec. Manager's Report)

The list was reviewed and discussion was had on accomplishing things as soon as possible that are not pending WSP approval and weather related projects.

## **New Business**

1) Stop and waste valves - Don Bird

Don reported that his brother-in-law's home had a freezing issue due to the fact that his stop and waste valve was removed from his meter box sometime during the installations, this causing the home to not be entirely weather proofed. Research shows that these valves are not the best option in most cases and would have been installed by the home owner. Bill will be asked to address this issue when he works on the newsletter article and hand out for winterizing.

2) Water fees related to county owned lots

Two LLCC Lots were repossessed by the County during tax sale. It was clear from the beginning that the County would not pay HOA dues or fees. Since our water is on a "fee" basis and not an actual use basis the County does not have to pay for water either.

3) NWS contract regarding water testing fees

NWS sent a letter to their customers stating the new fee amount for water testing outside of the standard monthly tests that are part of the original contract.

**Announcements** Next meeting date - February 8, 2014 @9:00am

## **Motion to adjourn.**

A Motion was made by Scott Carey, seconded by Steve Saylor and passed with no nays as follows:  
To adjourn the meeting at 9:42 a.m.

These minutes have not been approved by the Water Committee  
Respectfully Submitted by: Sheila Hedlund

## **MOTIONS FOR THE BOARD**

**A Motion was made** by Steve Saylor, seconded by Don Bird and passed with no nays as follows:  
To approve the minutes November 9, 2013 as written

**A motion was made** by Scott Carey, seconded by Ken Ayers and passed with no nays as follows:  
To grant the forgiveness request to Luke Draper Account # 100832 for \$654.00.

Lake Limerick Water System  
Financial Statement  
Fiscal Year 2013 - 2014  
as of December 31, 2013

	TOTAL	Annual Budget	YTD %	
<b>Ordinary Income/Expense</b>				Goal 25%
<b>Income</b>				
<b>Gross Revenue - Administration</b>				
NSF Check Fees	\$ 30.00	\$ -	0%	
<b>Total Gross Revenue - Administration</b>	\$ 30.00	\$ -	0%	
<b>Gross Revenue Water</b>				
Water Disconnect Fee	\$ -	\$ 150.00	0%	
Water Excess Use Charge	\$ 1,762.62	\$ 10,000.00	18%	
Water Meter Hookup	\$ 1,000.00	\$ 2,000.00	50%	
Water Meter Lock/Lockout	\$ -	\$ 120.00	0%	
Water Meter Locked	\$ 2,340.00	\$ 10,000.00	23%	
Water Metered	\$ 91,164.00	\$ 364,000.00	25%	
Water Non Metered	\$ 5,436.00	\$ 22,200.00	24%	
<b>Total Gross Revenue Water</b>	\$ 101,702.62	\$ 408,470.00	25%	
<b>Total Income</b>	\$ 101,732.62	\$ 408,470.00	25%	
<b>Gross Profit</b>	\$ 101,732.62	\$ 408,470.00	25%	
<b>Expense</b>				
<b>Accounting</b>				
Accounting Assistance	\$ -	\$ 2,000.00	0%	
Accounting Audit	\$ -	\$ -	0%	
Accounting Review	\$ 23.63	\$ 2,000.00	1%	
<b>Total Accounting</b>	\$ 23.63	\$ 4,000.00	1%	
Bank Service Charges	\$ 308.00	\$ 400.00	77%	
Credit Card Service Charges	\$ 558.59	\$ 2,500.00	22%	
Depreciation	\$ 14,598.00	\$ 36,500.00	40%	
Dues & Subscriptions	\$ -	\$ 800.00	0%	
<b>Employee Expense</b>				
Education of Employees	\$ -	\$ 1,500.00	0%	
Health Insurances	\$ -	\$ -	0%	
L&I Insurance	\$ 97.90	\$ 1,100.00	9%	
Payroll Tax Expense	\$ 1,961.25	\$ 6,930.00	28%	
Salaries & Wages	\$ 17,919.28	\$ 59,409.00	30%	
Retro Tax Expense	\$ -	\$ -		
Vacation & Sick Leave	\$ -	\$ 3,990.00	0%	
<b>Total Employee Expense</b>	\$ 19,978.43	\$ 72,929.00	27%	
Engineering Services	\$ -	\$ 7,500.00	0%	
Equipment Rent	\$ 276.29	\$ 1,000.00	28%	
Insurance	\$ 1,579.40	\$ 9,500.00	17%	
Legal Fees	\$ -	\$ 1,000.00	0%	
License & Permits	\$ 42.00	\$ 3,000.00	1%	
New Equipment Purchase	\$ 7,724.40	\$ 10,000.00	0%	
Newsletter Expense	\$ -	\$ 2,000.00	0%	
Office Expense	\$ 1,077.20	\$ 3,500.00	31%	
Professional Services	\$ 1,437.61	\$ 9,000.00	16%	
<b>Professional Services</b>	\$ 11,261.40	\$ 52,000.00	22%	
<b>Repairs &amp; Maintenance</b>				
Equipment	\$ 1,699.00	\$ 5,000.00	34%	
General	\$ 1,123.35	\$ 52,000.00	2%	
Auto Maintenance	\$ 75.96	\$ -	0%	



Lake Limerick Water System			
Statement of Income and Expenses - Fiscal Year Oct 2013 through Sept 2014			
Status as of 12/31/13			
O.C.C.U. Savings Account	\$	9,013.69	
O.C.C.U. Checking Account	\$	63,589.00	
Key Bank Checking	\$	68,700.36	
Ellington Designated Savings	\$	146,757.02	
Key Bank Main Line Replacement Account	\$	70,781.57	
Accounts Receivable	\$	69,567.80	
	\$	428,409.44	

Capital Improvements	Budget	Actual Cost	Budget Balance
Well #4, Replace Hydroneumatik tank with bladder tank	\$ 10,000.00	\$ -	\$ 10,000.00
Well #5, Replace Hydroneumatik tank with bladder tank	\$ 10,000.00	\$ -	\$ 10,000.00
Well #6, Retaining wall with steps up to wellhead	\$ 4,000.00	\$ 1,726.32	\$ 2,273.68
Well #6, Replumb the reservoir fill line to go into the pumphouse before going to the reservoir	\$ 20,000.00	\$ -	\$ 20,000.00
<b>F.Y. 2013 - 2014 Totals:</b>	<b>\$ 44,000.00</b>	<b>\$ 1,726.32</b>	<b>\$ 42,273.68</b>

Non Budgeted Capital Improvements		\$	
		-	

St of WA Dept of Public Works Loan Well #6	Loan Amt	Int Pymts	Principle Paid
Loan Amount	\$ 343,941.00		
October 2005 Loan Payment #1 ( Int Only)	\$ 343,941.00	\$ 4,467.75	
October 2006 Loan Payment #2	\$ 325,838.85	\$ 5,159.13	\$ 18,102.15
October 2007 Loan Payment #3	\$ 307,736.70	\$ 4,887.58	\$ 18,102.15
October 2008 Loan Payment #4	\$ 289,634.55	\$ 4,616.05	\$ 18,102.15
October 2009 Loan Payment #5	\$ 271,532.39	\$ 4,344.52	\$ 18,102.16
October 2010 Loan Payment #6	\$ 253,430.23	\$ 4,072.99	\$ 18,102.16
October 2011 Loan Payment #7	\$ 235,328.07	\$ 3,801.45	\$ 18,102.16
October 2012 Loan Payment #8	\$ 217,225.91	\$ 3,529.92	\$ 18,102.16
October 2013 Loan Payment #9	\$ 199,123.75	\$ 3,258.39	\$ 18,102.16
October 2014 Loan Payment #10 (Estimated)	\$ 181,021.59	\$ 2,986.85	\$ 18,102.16

**Cross Connection Control Devices: Collection & Expense Report:**

Date	#of \$3 pymts	Amt Collected YTD	Maint. & Inspection Costs:
October-13	1425	\$ 4,275.00	
November-13	1264	\$ 3,792.00	
December-13	1311	\$ 3,933.00	
January-14		\$ -	
February-14		\$ -	
March-14		\$ -	
April-14		\$ -	
May-14		\$ -	
June-14		\$ -	
July-14		\$ -	
August-14		\$ -	
September-14		\$ -	

	Budgeted Amt	Payments Made	Budget Balance
Reserve Acct for Main Line Replacement Engineering	\$ 70,742.00	\$ 17,740.00	\$ 53,002.00

Payments Collected for Mainline Replacements	#of \$5 pymts	Total / Month	Total Collected
amount collected April 2013 - Sept 2013		\$ -	\$ 36,613.87
October-13	1237	\$ 6,185.00	\$ 42,798.87
November-13	1123	\$ 5,615.00	\$ 48,413.87
December-13	1188	\$ 5,940.00	\$ 54,353.87
January-14			
February-14			
March-14			
April-14			
May-14			
June-14			
July-14			
August-14			
September-14			

Lake Limerick Water System  
 Financial Statement  
 Fiscal Year 2013 - 2014  
 as of November 30, 2013

	TOTAL	Annual Budget	YTD %	
<b>Ordinary Income/Expense</b>				Goal 17%
<b>Income</b>				
<b>Gross Revenue - Administration</b>				
NSF Check Fees	\$ -	\$ -	0%	
<b>Total Gross Revenue - Administration</b>	\$ -	\$ -	0%	
<b>Gross Revenue Water</b>				
Water Disconnect Fee	\$ -	\$ 150.00	0%	
Water Excess Use Charge	\$ 664.62	\$ 10,000.00	7%	
Water Meter Hookup	\$ 1,000.00	\$ 2,000.00	50%	
Water Meter Lock/Lockout	\$ -	\$ 120.00	0%	
Water Meter Locked	\$ 1,550.00	\$ 10,000.00	16%	
Water Metered	\$ 60,552.42	\$ 364,000.00	17%	
Water Non Metered	\$ 3,082.48	\$ 22,200.00	14%	
<b>Total Gross Revenue Water</b>	\$ 66,849.52	\$ 408,470.00	16%	
<b>Total Income</b>	\$ 66,849.52	\$ 408,470.00	16%	
<b>Gross Profit</b>	\$ 66,849.52	\$ 408,470.00	16%	
<b>Expense</b>				
<b>Accounting</b>				
Accounting Assistance	\$ -	\$ 2,000.00	0%	
Accounting Audit	\$ -	\$ -	0%	
Accounting Review	\$ 23.63	\$ 2,000.00	1%	
<b>Total Accounting</b>	\$ 23.63	\$ 4,000.00	1%	
<b>Bank Service Charges</b>	\$ 308.00	\$ 400.00	77%	
<b>Credit Card Service Charges</b>	\$ 265.88	\$ 2,500.00	11%	
<b>Depreciation</b>	\$ 9,732.00	\$ 36,500.00	27%	
<b>Dues &amp; Subscriptions</b>	\$ -	\$ 800.00	0%	
<b>Employee Expense</b>				
Education of Employees	\$ -	\$ 1,500.00	0%	
Health Insurances	\$ -	\$ -	0%	
L&I Insurance	\$ 326.25	\$ 1,100.00	30%	
Payroll Tax Expense	\$ 1,333.66	\$ 6,930.00	19%	
Salaries & Wages	\$ 12,207.27	\$ 59,409.00	21%	
Retro Tax Expense	\$ -	\$ -		
Vacation & Sick Leave	\$ -	\$ 3,990.00	0%	
<b>Total Employee Expense</b>	\$ 13,867.18	\$ 72,929.00	19%	
<b>Engineering Services</b>	\$ -	\$ 7,500.00	0%	
<b>Equipment Rent</b>	\$ 184.32	\$ 1,000.00	18%	
<b>Insurance</b>	\$ 789.70	\$ 9,500.00	8%	
<b>Legal Fees</b>	\$ -	\$ 1,000.00	0%	
<b>License &amp; Permits</b>	\$ 42.00	\$ 3,000.00	1%	
<b>New Equipment Purchase</b>	\$ 7,724.40	\$ 10,000.00	0%	
<b>Newsletter Expense</b>	\$ -	\$ 2,000.00	0%	
<b>Office Expense</b>	\$ 1,012.84	\$ 3,500.00	29%	
<b>Printing</b>	\$ 1,061.87	\$ 9,000.00	12%	
<b>Professional Services</b>	\$ 7,677.71	\$ 52,000.00	15%	
<b>Repairs &amp; Maintenance</b>				
Equipment	\$ 1,699.00	\$ 5,000.00	34%	
General	\$ 617.54	\$ 52,000.00	1%	
Auto Maintenance	\$ 75.96	\$ -	0%	

Lake Limerick Water System  
 Financial Statement  
 Fiscal Year 2013 - 2014  
 as of November 30, 2013

<b>Repairs &amp; Maintenance</b>	\$ 2,392.50	\$ 57,000.00	0%		
<b>Security Service Contracts</b>	\$ 924.00	\$ 6,400.00	14%		
<b>Service Contracts</b>	\$ -	\$ 1,500.00	0%		
<b>Supplies</b>	\$ 612.58	\$ 5,000.00	12%		
<b>Taxes</b>					
<b>Property Taxes</b>	\$ 676.89	\$ 2,500.00	27%		
<b>WA St Excise Tax</b>	\$ 1,696.27	\$ 19,200.00	9%		
<b>Total Taxes</b>	\$ 2,373.16	\$ 21,700.00	11%		
<b>Telephone</b>	\$ 166.40	\$ 2,500.00	7%		
<b>Utilities</b>	\$ 2,008.40	\$ 20,000.00	10%		
<b>Vehicle Expense</b>	\$ 1,366.22	\$ 6,000.00	23%		
<b>Water Testing</b>	\$ 1,836.00	\$ 200.00	918%		
<b>Well # 6 Annual Payment</b>	\$ -	\$ -			
<b>Total Expense</b>	\$ 54,368.79	\$ 335,929.00	16%		
<b>Net Ordinary Income</b>	\$ 12,480.73	\$ 72,541.00	17%		
<b>Other Income/Expense</b>					
<b>Other Income</b>					
<b>Interest Income</b>	\$ 53.80	\$ 4,000.00	1%		
<b>Miscellaneous Income</b>	\$ -	\$ 500.00	0%		
<b>Service Charges</b>	\$ 1,145.75	\$ 6,500.00	18%		
<b>Total Other Income</b>	\$ 1,199.55	\$ 11,000.00	11%		
<b>Other Expense</b>					
<b>Interest Expense Well #6</b>	\$ -	\$ 3,800.00	0%		
<b>Misc. Expense</b>	\$ 106.00	\$ 200.00	53%		
<b>Total Other Expenses</b>	\$ 106.00	\$ 4,000.00	3%		
<b>Net Other Income</b>	\$ 1,093.55	\$ 7,000.00	16%		
<b>Net Income</b>	\$ 13,574.28	\$ 79,541.00	17%		



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January 6, 2014

#### Lake Limerick Water System January Meeting

The general condition of the water system is good with no concerns as to system pressures or water availability to the customers.

#### **Well Conditions:**

Well #1 the low water usage from Well #1 was a result of the cold spell. The hydropneumatic tank froze and split open. We dumped a lot of water on the ground; luckily we did not have any damage (beyond the tank). I don't think that we need a DOH approval to install a bladder tank but I asked for confirmation before we proceed.

Well #2 is still in stand-by and its use will only be required in extreme cases.

Wells #3A and B are operating normally.

Well #4 is operating normally.

Well #5 is operating properly. We had the valve on the hydropneumatic tank freeze and crack. There was a lot of leakage and we replaced the valve with a plug.

Well #6 is operating properly. We have the replacement depth sensor. I have still not installed it.

#### **Water Sampling:**

The monthly routine bacteria samples were satisfactory.

#### **Water Usage:**

Water usage calculations indicate a loss of 8.6%. We had a lot of leakage due to frozen pipes, hydropneumatic tanks, and backflow assemblies. The yearly losses are at 4.4% which is very good.

The suspected leak on St. Andrews Dr. seems to have gone away. We will keep an eye on it and hope it shows itself again. We will break out the leak detection equipment if we don't get a clear location soon.

We pumped almost exactly the same amount of water this year as last. The consumer usage is up and the leakage is down. We have had fairly consistent usage over the last 3 years (very low) and I am not sure changing the Water Use Efficiency goals will make any difference.

#### **Customer Concerns:**

Steve had 2 utility locates, investigated 3 high water users, and turned on the water for a customer.



There were 4 customers with frozen backflow assemblies that Steve thawed. There were 3 other customers with frozen waterlines going to their homes which Steve was not able to help. There were 3 backflow assemblies installed to empty lots which froze and blew-out the gaskets. Steve was able to replace the gaskets in place.

**Thoughts:**

Steve sold the backflow assembly test kit to backflow pros for \$600. He also discussed testing our backflow assemblies in the Spring.

We still need to register with L&I as a contractor before we can start making our own road repairs. The registration steps are on-line and fairly easy to follow. Please let me know if you need any help.

Steve has had his last "motorcycles use caution" sign stolen. These signs are required to be posted whenever road work is done. Joe is ordering more for him.

Steve and I talked about not recording electrical readings anymore. The value of this data is less than the hassle for Steve to record it. Next year's consumption report will only be one page.

We have not heard from DOH about the WSP response he submitted. Hopefully this will be completed soon and we can start scheduling the work at Well #4.

Should you have any questions, or require further information, please call.

William Bernier

## Lake Limerick Consumption 2013

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Well #1	167,851	139,502	152,303	412,522	419,478	395,944	1,809,861	952,420	434,842	258,153	56,927	150
Well #2	0	0	0	0	0	0	0	0	0	0	0	0
Well #3a	476,200	469,100	523,800	1,294,500	1,228,800	1,470,600	1,744,400	1,245,800	1,193,700	113,500	11,900	165,800
Well #3b	644,400	634,100	701,700	1,728,000	1,637,200	1,989,100	2,394,300	1,706,700	1,743,300	151,300	15,200	224,400
Well #4	624,700	524,700	771,400	617,100	1,650,000	1,486,100	1,137,000	980,700	1,514,800	142,500	1,497,300	593,400
Well #5	9,900	15,400	25,200	1,600	12,600	13,300	2,358,400	350,200	0	600	4,000	1,070,600
Well #6	1,812,400	1,388,100	1,165,200	0	0	0	297,200	2,450,600	84,900	3,381,800	2,117,700	2,562,200
<b>total:</b>	<b>3,735,451</b>	<b>3,170,902</b>	<b>3,339,603</b>	<b>4,053,722</b>	<b>4,948,078</b>	<b>5,355,044</b>	<b>9,741,161</b>	<b>7,686,420</b>	<b>4,971,542</b>	<b>4,047,853</b>	<b>3,703,027</b>	<b>4,616,550</b>

Flushing	0	0	0	10,120	0	0	0	0	10,000	30,000	0	0
Dumping	0	0	0	150,000	450,000	0	182,700	0	0	0	0	0
Leakage	0	0	0	518,400	144,000	250,000	100,000	46,000	0	150,000	89,280	150,000
Fire/Cnty	0	0	0	0	0	15,000	5,800	203,500	5,000	0	0	0
<b>total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>678,520</b>	<b>594,000</b>	<b>265,000</b>	<b>288,500</b>	<b>249,500</b>	<b>15,000</b>	<b>180,000</b>	<b>89,280</b>	<b>150,000</b>

Meters	4,016,143	2,372,412	3,277,169	2,813,155	4,082,164	4,959,512	9,300,534	7,410,348	4,867,124	3,590,377	3,518,821	4,067,538
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Loss	-280,692	798,490	62,434	562,047	271,914	130,532	152,127	26,572	89,418	277,476	94,926	399,012
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Percent	-7.5%	25.2%	1.9%	13.9%	5.5%	2.4%	1.6%	0.3%	1.8%	6.9%	2.6%	8.6%
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	Right (acrfi/yr)	Total	Acre-feet	%Water right
Well #1	117	5,199,953	16.0	13.6%
Well #2	166	0	0.0	0.0%
Well #3	84	23,507,800	72.1	85.9%
Well #4	79	11,539,700	35.4	44.8%
Well #5	152	3,861,800	11.9	7.8%
Well #6	160	15,260,100	46.8	29.3%

**Year to Date Total Loss: 4.4%**

### Electrical Usage in Kwh

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Well #1	746	916	975	1,451	1,108	880	3,564	2,030	1,380	1,708	1,519	0
Well #2	0	0	0	0	0	0	0	0	0	0	0	0
Well #3	3,861	3,792	3,922	775	6,998	7,948	9,527	6,832	7,138	1,917	1,533	0
Well #4	1,969	1,643	2,263	1,888	4,281	3,738	2,643	2,355	3,785	736	4,173	0
Well #5	360	329	359	336	322	299	4,845	995	469	686	1,179	0
Well #6	0	6,428	5,831	1,771	2,990	830	1,815	9,275	1,520	14,850	10,690	0
<b>total:</b>	6,936	13,108	13,350	6,221	15,699	13,695	22,394	21,487	14,292	19,897	19,094	0

### Gallons Per Kwh

Well #1	225	152	156	284	379	450	508	469	315	151	37	
Well #2	0	0	0	0	0	0	0	0	0	0	0	
Well #3	290	291	312	0	410	435	434	432	411	138	18	
Well #4	317	319	341	327	385	398	430	416	400	194	359	
Well #5	28	47	70	5	39	44	487	352	0	1	3	
Well #6	0	216	200	0	0	0	164	264	56	228	198	
<b>total:</b>	539	242	250	652	315	391	435	358	348	203	194	

#### Historical Data

	Pumped	Sold	Loss
2010	69,790,309	66,840,300	4.2%
2011	60,958,882	56,483,665	7.3%
2012	56,874,086	53,685,498	5.5%
2013	56,859,553	54,275,297	4.4%

#### Gal/Kwh YTD

Well #1	284
Well #3	288
Well #4	353
Well #5	98
Well #6	120



Includes  
Email from Dow  
re: priority list &  
sensors # 3

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December 10, 2013

#### Lake Limerick Water System December Meeting

The general condition of the water system is good with no concerns as to system pressures or water availability to the customers.

#### **Well Conditions:**

##### Well #1

We only pumped 56,000 gallons from Well #1 this month. I will be onsite tomorrow to investigate the problem. I had Steve test the flowrates over the phone and the well is still pumping at 40 gpm; but there is no demand. The water usage drop off may correlate with the cold snap we had. I will have more to say after tomorrow.

Well #2 is still in stand-by and its use will only be required in extreme cases.

Wells #3A and B are operating normally.

Well #4 is operating normally.

Well #5 is operating properly.

Well #6 is operating properly. We have the replacement depth sensor, but have not installed it yet. It has been very cold and I am wimpy.

#### **Water Sampling:**

The monthly routine bacteria samples were satisfactory.

#### **Water Usage:**

Water usage calculations indicate a loss of 2.6%. The yearly losses are at 4.0% which is very good.

We suspect there is a leak on St. Andrews Dr. but we are having a hard time determining an exact location. Hopefully when the road thaws we will be able to get a closer location.

#### **Customer Concerns:**

Steve had 6 utility locates, investigated 2 high water users, had 1 water shut-off, and turned on the water for a customer.

Steve also had to come in three times on the weekend for frozen pipes. There have been 7 customers with frozen pipes and Steve has been able to help 4 of them. The other 3 had problems in their homes.

**Thoughts:**

Steve is making arrangements for the sale of the backflow assembly test kit to backflow pros.

We have a new trailer, cement saw, tamp, and miscellaneous equipment for performing our own leak repairs in the road. We will need to register with L&I as a contractor before we can start. The registration steps are on-line and fairly easy to follow. Please let me know if you need any help.

Steve has had his last "motorcycles use caution" sign stolen. These signs are required to be posted whenever road work is done. He is ordering more.

We determined that the "member training endorsement" from Evergreen Rural Water was not worth the expense. It was only for 1 day classes and Steve would have to take 3 of those to make it worthwhile.

Jester has completed the WSP comments and I will be proof reading them this week.

I was asked to prioritize the list of projects I prepared earlier this year.

1. Reservoir tank drains, screens on the outlet piping.
2. Complete a major project at Well #4. This would include;
  - a. Removing the hydropneumatic tank and replacing it with a small bladder tank.
  - b. Install the independent fill line for the reservoir.
  - c. Remove the trees inside the fence and within 5 feet of the fence.
  - d. Clean the moss off of the reservoir tank.
  - e. Remove the unneeded piping in the pumphouse.
  - f. Simplify the wiring and remove unneeded components.
3. Replace hydropneumatic tanks with small bladder tanks at wells #1 and #5.
4. Replace the handle for the electrical panel at Well #6.
5. Schematic drawings of the pumphouses.
6. Clean up the wiring at Wells #1 and #3.
7. Powder coat or paint the door panels on the generator at Well #3.
8. Replace metal hood for booster pump B.
9. Complete the previously mentioned SCADA programming.
10. Install fence around reservoir holding tank at Well #3 and clean graffiti.

We have already completed several items on the list. The pavement repair equipment has been purchased, the booster house at Well #3 has been repaired, the retaining wall at Well #6 has been built, and the depth sensor at Well #6 has been purchased.

I also did not include things like the drawdown test on the wells, protecting pipes, covering roofing insulation, and painting pipes and valves; because these items will be done "in house" with little cost.

Should you have any questions, or require further information, please call.

William Bernier

### Lake Limerick Consumption 2013

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Well #1	167,851	139,502	152,303	412,522	419,478	395,944	1,809,861	952,420	434,842	258,153	56,927	0
Well #2	0	0	0	0	0	0	0	0	0	0	0	0
Well #3a	476,200	469,100	523,800	1,294,500	1,228,800	1,470,600	1,744,400	1,245,800	1,193,700	113,500	11,900	0
Well #3b	644,400	634,100	701,700	1,728,000	1,637,200	1,989,100	2,394,300	1,706,700	1,743,300	151,300	15,200	0
Well #4	624,700	524,700	771,400	617,100	1,650,000	1,486,100	1,137,000	980,700	1,514,800	142,500	1,497,300	0
Well #5	9,900	15,400	25,200	1,600	12,600	13,300	2,358,400	350,200	0	600	4,000	0
Well #6	1,812,400	1,388,100	1,165,200	0	0	0	297,200	2,450,600	84,900	3,381,800	2,117,700	0
<b>total:</b>	<b>3,735,451</b>	<b>3,170,902</b>	<b>3,339,603</b>	<b>4,053,722</b>	<b>4,948,078</b>	<b>5,355,044</b>	<b>9,741,161</b>	<b>7,686,420</b>	<b>4,971,542</b>	<b>4,047,853</b>	<b>3,703,027</b>	<b>0</b>

Flushing	0	0	0	10,120	0	0	0	0	10,000	30,000	0	0
Dumping	0	0	0	150,000	450,000	0	182,700	0	0	0	0	0
Leakage	0	0	0	518,400	144,000	250,000	100,000	46,000	0	150,000	89,280	0
Fire/Cnty	0	0	0	0	0	15,000	5,800	203,500	5,000	0	0	0
<b>total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>678,520</b>	<b>594,000</b>	<b>265,000</b>	<b>288,500</b>	<b>249,500</b>	<b>15,000</b>	<b>180,000</b>	<b>89,280</b>	<b>0</b>

Meters	4,016,143	2,372,412	3,277,169	2,813,155	4,082,164	4,959,512	9,300,534	7,410,348	4,867,124	3,590,377	3,518,821	0
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Loss	-280,692	798,490	62,434	562,047	271,914	130,532	152,127	26,572	89,418	277,476	94,926	0
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Percent	-7.5%	25.2%	1.9%	13.9%	5.5%	2.4%	1.6%	0.3%	1.8%	6.9%	2.6%	0.0%
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	Right (acrf/yr)	Total	Acre-feet	%Water right
Well #1	117	5,199,803	16.0	13.6%
Well #2	166	0	0.0	0.0%
Well #3	84	23,117,600	70.9	84.5%
Well #4	79	10,946,300	33.6	42.5%
Well #5	152	2,791,200	8.6	5.6%
Well #6	160	12,697,900	39.0	24.4%

**Year to Date Total Loss: 4.0%**

### Electrical Usage in Kwh

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Well #1	746	916	975	1,451	1,108	880	3,564	2,030	1,380	1,708	1,519	0
Well #2	0	0	0	0	0	0	0	0	0	0	0	0
Well #3	3,861	3,792	3,922	775	6,998	7,948	9,527	6,832	7,138	1,917	1,533	0
Well #4	1,969	1,643	2,263	1,888	4,281	3,738	2,643	2,355	3,785	736	4,173	0
Well #5	360	329	359	336	322	299	4,845	995	469	686	1,179	0
Well #6	0	6,428	5,831	1,771	2,990	830	1,815	9,275	1,520	14,850	10,690	0
<b>total:</b>	6,936	13,108	13,350	6,221	15,699	13,695	22,394	21,487	14,292	19,897	19,094	0

### Gallons Per Kwh

Well #1	225	152	156	284	379	450	508	469	315	151	37
Well #2	0	0	0	0	0	0	0	0	0	0	0
Well #3	290	291	312	0	410	435	434	432	411	138	18
Well #4	317	319	341	327	385	398	430	416	400	194	359
Well #5	28	47	70	5	39	44	487	352	0	1	3
Well #6	0	216	200	0	0	0	164	264	56	228	198
<b>total:</b>	539	242	250	652	315	391	435	358	348	203	194

#### Historical Data

	Pumped	Sold	Loss
2010	69,790,309	66,840,300	4.2%
2011	60,958,882	56,483,665	7.3%
2012	56,874,086	53,685,498	5.5%
2013	52,393,003	50,207,759	4.0%

#### Gal/Kwh YTD

Well #1	284
Well #3	288
Well #4	353
Well #5	98
Well #6	120

## Sheila Hedlund

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**From:** Don & Sue Bird [bird.family@comcast.net]  
**Sent:** Wednesday, December 11, 2013 11:41 AM  
**To:** 'Bernier, Bill'  
**Cc:** 'Wheaton, Steve'; 'Phyl'; 'Hedlund, Sheila'  
**Subject:** Well 3 sensor problem - resolved?

Bill,

In reviewing your manager's report I didn't see any mention about the previous sensor problem at Well 3 after you relocated the cable. I presume you and Jester got that resolved. I'm curious what you had to do to correct that problem. Let me know if you still need any assistance with that item.

Regarding the prioritized list of projects I had the following comments:

1. I'd suggest moving item "5. Schematic drawings of the pump houses" higher on the list of projects. In an emergency it would be important to have good schematic drawings of each pump house's piping, valves and sensors in order to quickly remediate any problem. It would also be good to have proper electrical drawings to show which sensors are wired into the SCADA system and where they connect to the equipment.
2. Regarding item "9. Complete the previously mentioned SCADA programming." I plan to spend the month of February at Lake Limerick and could assist with as many SCADA programming items as I am qualified to assist with.

Thanks for all you and Steve have done for the Lake Limerick Water System.

Have a Merry Christmas.

Don



## WATER COMMITTEE MEMBERS ACTION ITEMS LIST

	ITEM	DATE TO BE DONE	STATUS
1.	Loan for Well#6	20 year loan annual payments	Loan paid off 2026, Next Payment Due 10/1/14
2.	Radio Communication License Fee	10 year Renewal, next due May 2015	Includes Rules and Updates
3.	Budget for periodic pump replacement	Pump expense added to annual budget yearly	Well#1 booster slow, may need replacement
4.	Map Update/ERU increase Water Distribution System	2006 in-house update by hand converted to CAD (computer) version 2007 by JWM (Morrisette).	CAD map posted in Inn Dec 07. ERU increase request to JWM 4/2010, sent to WDMII For review and Signature, never sent to DOH. GM has requested JWM submit to DOH, done February 2011, pending DOH decision.
5.	System wide water line replacement	Long-range planning. Continue investigating financing opportunities.	JWM system evaluation for total replacement completed Feb 2009: estimated cost \$10,000,000. Feb 09 applied & Aug 09 reapplied for 20-yr 1% DWSRF \$1 million loan for first section - denied. Explored USDA loan options. We qualify but how do we pay? Need to check health AC pipes.
6.	WSP updates required every 5 – 6 years.	Next update required April 2013.	plan has been sent to DOH May 2013 for approval
7.	Well #1, Clonakilty Loop	Included in Eng. Design for Div 5 main upgrades.	Incorporated into main upgrade plan.
8.	4" water main, 04-030: Eliminate from the lot, relocate to greenbelt.	Include in Div 4 Eng. Design for main upgrades.	Add to Div. 4 future main upgrade.
9.	Ballantrae/Aycliffe Valve Replacement	WC agreed to defer this project until it can coincide with other projects	Valve not operative, no emergency, but must be replaced Cost \$2,000.
10	Annual Consumer Education Meeting	November of Each Year	Next Meeting November 2103
11	Secondary BFA testing	Every Three Years, last done 2012	Pending approval by DOH of WSP
12	Annual Well Site Inspection	Every Year In May for new Committee Members	May 2013 Inspection Complete
13	Replace Well#3 pump house	FY 2013 - 2014	Per WSP Review Letter
14	Respond to DOH about WSP, with NWS having the responsibility	ASAP	Sheila and Jester will work together to complete required information
15	Sanitary Survey	Every 5 years	Next Scheduled Survey 2018
16	Well #3 Steps	ASAP	To be completed as weather permits