

TRANSMITTAL

ATTN:	Mr. Gary Spackman	DATE:	June 1, 2011
TO:	Idaho Dept of Water Resources	RE:	2010 Annual Review of NKWD Water
	P.O. Box 83720		Conservation Plan
	Boise, Idaho 83720-0098	PRJ #:	11233

Items Transmitted: ☒ Mailed ☐ Delivered

Copies	Date	Description
1	6-2011	(Copy) 2010 Annual Review of NKWD Water Conservation Plan

These Are Transmitted As Checked Below:

- | | | |
|--|--|--|
| ☐ For Approval | ☐ No Exceptions Taken | ☐ Rejected – See Remarks |
| ☒ For Your Use | ☐ Make Corrections Noted | ☐ Return ___ Corrected Prints |
| ☐ As Requested | ☐ Revise & Resubmit | ☐ _____ |
| ☐ For Your Review & Comment | ☐ Return After Loan To Us | |

Remarks:

Gary -
For your information and record. Should you have any questions, please contact our office.

Thanks!

Copy To: Bob Haynes, IDWR-Coeur d'Alene From: Necia Maiani, P.E. - Sr. Project Manager

WELCH-COMER

○ 208-664-9382
877-815-5672 (toll free)
208-664-5946 (fax)
+ 350 E. Kathleen Ave.
Coeur d'Alene, ID 83815

2010 ANNUAL REVIEW

FOR

NORTH KOOTENAI WATER DISTRICT
WATER CONSERVATION PLAN

SUBMITTED TO THE
NORTH KOOTENAI WATER DISTRICT

MAY, 2011

© 2011 Welch, Comer and Associates, Inc.

RECEIVED

JUN 06 2011

DEPARTMENT OF
WATER RESOURCES

2010 ANNUAL REVIEW

NORTH KOOTENAI WATER DISTRICT WATER CONSERVATION PLAN

SUBMITTED TO THE:

NORTH KOOTENAI WATER DISTRICT



Necia Maiani
5/31/11

MAY, 2011

PREPARED BY:



350 E. Kathleen Avenue
Coeur d'Alene, ID 83815
208-664-9382 ♦ 208-664-5946 Fax
E-Mail: wc@welchcomer.com

Table of Contents

EXECUTIVE SUMMARY	1
1. INTRODUCTION	2
2. FISCAL YEAR 2009/2010 GOALS	3
2.1. CURRENT CONSERVATION MEASURES	4
2.1.1. <i>Leak Repairs, Meter Replacements and Hydrant Locks</i>	6
2.2. WATER RATES	6
2.3. CONSUMPTION	9
2.4. PRODUCTION AND SYSTEM LOSS	15
2.5. CONCLUSIONS	17
3. RECOMMENDED GOALS AND MEASURES FOR FISCAL YEAR 2010/2011	20
APPENDIX A: 2009/2010 NEWSLETTERS	22

Executive Summary

During Fiscal Year 2009/2010¹ (FY 2009/2010), North Kootenai Water District ("the District") made significant progress in achieving the goals established within the 2008 and 2009 Annual Reviews of the 2007 Water System Conservation Plan.

The initial goal set for conservation was to accomplish a 25% reduction in the average daily demand per connection for the peak months of July, August and September from 2006 to 2013.

The District-wide average of the average daily demand per connection for the peak months (July, August and September) of FY 2009/2010 was 744 gallons per day. This represents a 12% savings over the predicted usage (based on pre-conservation data) of 848 gallons per day per connection.

The second goal set for FY 2009/2010 was to reduce or eliminate meter inaccuracies identified throughout the District's systems. In working toward achieving this goal, the District installed new registers allowing for electronic/remote read through a SCADA system on three master meters in the Hillside, GTE/Hayden Pines and Atlas Acres systems. In addition, the District replaced approximately 268 aged individual meters with radio read meters. Data inaccuracies still exist, however, and the District intends to continue working toward source register and individual meter replacement.

The third goal set for FY 2009/2010 was to reduce the average production per connection by achieving an average annual line loss of 10% (based on a three year rolling average) within 10 years on all of the District's systems. District staff completed leak detection on the Hillside, Rimrock and Twin Lakes systems and completed leak repairs on the Chilco and Mountain View systems. In addition, the District installed approximately 60 hydrant locks during FY 2009/2010. The results of these measures in terms of system loss, however, are not quantifiable due to data inaccuracies (which the District plans to mitigate through achievement of the second goal).

During FY 2009/2010, the District deposited approximately \$23,157 (8 percent of the total top tier sales) into the conservation fund. Based on estimated costs provided by the District, approximately \$145,950 was spent on conservation-related items (i.e. rebates, leak repairs, meter replacements and hydrant locks).

¹ The District's Fiscal Year starts in October and ends in September of the following year.

1. INTRODUCTION

The following is the third annual review of North Kootenai Water District's September 2007 "Water System Conservation Plan," prepared by Welch Comer and Associates and established by the District Board of Directors through three resolutions adopted in April, May, and July of 2008 (Resolution 2008-11, 2008-15, and 2008-23). This annual review satisfies Section 5c of the District's Resolution 2008-15 which adopted conservation measures, provided for conservation-related education of the District's constituents, established the effective date of the Conservation Plan, and addressed several other conservation related items.

The purpose of this annual review is to determine the effectiveness of the conservation measures implemented by the District in the preceding year. Additionally, and in accordance with Section 5a and 5b of the Resolution 2008-15, a second intent of this review is to establish measurable goals for conservation for FY 2010/2011.

2. FISCAL YEAR 2009/2010 GOALS

The following goals were identified for FY 2009/2010 within the 2009 Annual Review:

Goal #1: The District initiated its conservation program in 2006. The District's goal for this program is to accomplish a 25% reduction in the average daily demand per connection for the peak months (July through September) by the end of 2013 using a variety of strategies including, but not limited to, those implemented in FY 2008/2009.

The District-wide average daily demand per connection during the peak months (July, August and September) for FY 2009/2010 was 744 gallons per day. This represents a 12% savings over the predicted usage (based on pre-conservation data) of 848 gallons per day per connection.

Goal #2: Reduce or eliminate identified meter inaccuracies throughout the District's systems.

This goal was to be accomplished through adjustments in meter reading procedures (such as reading the master meter on the same day as the individual meters for a given system). The data indicates, however, that this did not occur. Therefore, the next step towards accomplishing this goal would be meter replacement. Installing SCADA read master meters and radio read individual meters would serve to eliminate the human error that often occurs during manual meter reading and would likely provide a significant increase in data accuracy.

The District replaced 240 individual meters with radio read meters in the Rimrock system as part of the Avondale Phase 1/Point Hayden Waterline Replacement project in the summer of 2010 and another 28 elsewhere in the system.

It should be noted that the District installed new registers, to allow for electronic/remote read through a SCADA system, on the master meters for the following sources during FY 2009/2010:

1. Hayden 2 (Hillside)
2. GTE (GTE/Hayden Pines)
3. Selkirk Meadows/Sylte (Atlas Acres)

Goal #3: Reduce the average production per connection by achieving an average annual line loss of 10% (based on a three year rolling average)² within 10 years (by the end of 2018) on each of the District's systems.

The most direct way to accomplish this goal is to repair or replace leaking lines. The District replaced approximately 24,000 linear feet of old, leaking steel water main on the Rimrock system as part of the Avondale Phase 1/Point Hayden Waterline Replacement project in 2010. The impact of this improvement will likely be "visible" within the data next year. In addition, District staff completed minor leak detection on the Hillside, Rimrock and Twin Lakes systems and completed leak repairs on the Chilco system during FY 2009/2010. Additionally, the District completed a significant leak repair on the Mountain View system while completing water system looping required by IDEQ for this system. Due to data inaccuracies, however, we do not have the ability to accurately estimate the current annual line loss for these systems. Thus, the result of the above replacements and leak repairs is unquantifiable.

Since the annual line loss is calculated as the difference between the annual production and the annual consumption, accurate meter data is essential in order to determine an accurate estimate of line loss. Although the accuracy of the meter data has been improved in recent years, significant inaccuracies still exist that in turn impact the estimated line loss. For example, several systems (Hillside/Honeysuckle Hills, Chilco, GTE/Hayden Pines, Valley Green, Meadowland Acres, East Seasons Acres and Ranch Valley) indicate a negative line loss for FY 2009/2010. This would indicate that the system is somehow creating water, which is impossible and points to errors in the metered data. Therefore, an important component in achieving Goal #3 is to reduce or eliminate meter inaccuracies through meter replacement with SCADA read master meters and radio read individual meters.

In summary, the District's currently implemented conservation measures are taking effect and have resulted in a significant reduction in the average daily demand per connection for the peak months. In addition, the continued installation of SCADA read master meters and radio read individual meters would aid the District in achieving both Goal #2 and Goal #3.

2.1. CURRENT CONSERVATION MEASURES

The following is a summary of the conservation measures implemented by the District in order to support the above goals.

1. **Mandatory Non-Irrigation Hours:** Irrigation may not occur between 12:00 pm and 6:00 pm daily.

² This goal will be met when the average line loss for three consecutive years is equivalent to 10% of the total water produced.

2. Rebate Program: The District provides rebates of up to \$75 per residential customer for installation of one or more of the following devices:
 - a. Rain sensor switch
 - b. Soil moisture sensor
 - c. Hose bib timer
 - d. Dual flush toilets
 - e. Low flow sprinkler heads (added to the rebate program in FY 2008/2009)
3. New Subdivision Requirements: All new developments must incorporate moisture and/or rain sensors into their residential irrigation systems.
4. Education: The District currently sends out newsletters with every bill and water conservation measures are included in each newsletter. In addition, the District's website contains information about conservation, including tips for household and landscaping conservation. The District will continue to communicate and educate its customers on the importance of conservation.
5. In an effort to promote water efficient landscaping, the District, in conjunction with the City of Coeur d'Alene, the City of Post Falls, the City of Spokane, Spokane Joint Aquifer Board, the Kootenai Environmental Alliance, Washington State University Extension, the Washington State Department of Ecology, the Lands Council, and Spokane County, provided samples of drought-resistant grass and wildflower seeds to customers free of charge. The samples were available at the District office upon request during the summer months of 2009. The District estimates approximately \$3,000 was expended on this program in 2009. At this time, the District has distributed all of the seed packets (approximately 425), and would be willing to participate in the program, provided other participants were involved.

During FY 2009/2010, these measures had the following impact:

1. NKWD has provided rebates to two customers (total of \$150.00). It should be noted that since implementation of the rebate program in 2008, the District has provided a total of twelve rebates, totaling \$841.63.
2. Residential connections within the Falls at Hayden Lake, on the Rimrock system, are required to install rain sensors on their irrigation systems. There are currently 98 connections in this subdivision.
3. The District mailed out several conservation related newsletters and brochures in FY 2009/2010. A copy of each is provided in Appendix A.

In addition to the above, in FY 2009/2010 the District completed the following conservation related improvements.

2.1.1. LEAK REPAIRS, METER REPLACEMENTS AND HYDRANT LOCKS

District staff completed minor leak detection on the Hillside, Rimrock and Twin Lakes systems. The District also completed approximately \$12,000, as estimated by the District, in leak repairs on the Chilco and Mountain View systems.

The District intends to complete leak detection on the Twin Lakes and Chilco systems in FY 2010/2011, at an estimated cost of \$7,000.

The District replaced approximately 268 aged meters with radio read meters in various water systems. The District estimates that approximately \$128,500 was spent on the meter replacements.

In addition, the District installed approximately 60 hydrant locks on various systems, at a cost of approximately \$5,300 excluding labor.

2.2. WATER RATES

The District's current rate schedule was implemented with conservation in mind and consists of four tiers with increasing per gallon rates, as shown in Table 1 below.

Table 1 - District-Wide Water Rate

Monthly Usage (gallons)	Rate per 1,000 Gallons
0 to 5,000	\$1.10
5,001 to 15,000	\$1.27
15,001 to 30,000	\$1.44
greater than 30,001	\$2.19

The District funds the Conservation Fund with a portion (8 percent) of the revenue generated through top tier sales each month. The current balance of the Conservation Fund is approximately \$34,400. According to the District's Resolution No. 2008-23, which established the Conservation Fund, "money in the Fund can be used to finance conservation efforts of the District, including, but not limited to: education about conservation; rebate program for water conservation devices; water leak detection and repairs and other conservation measures."

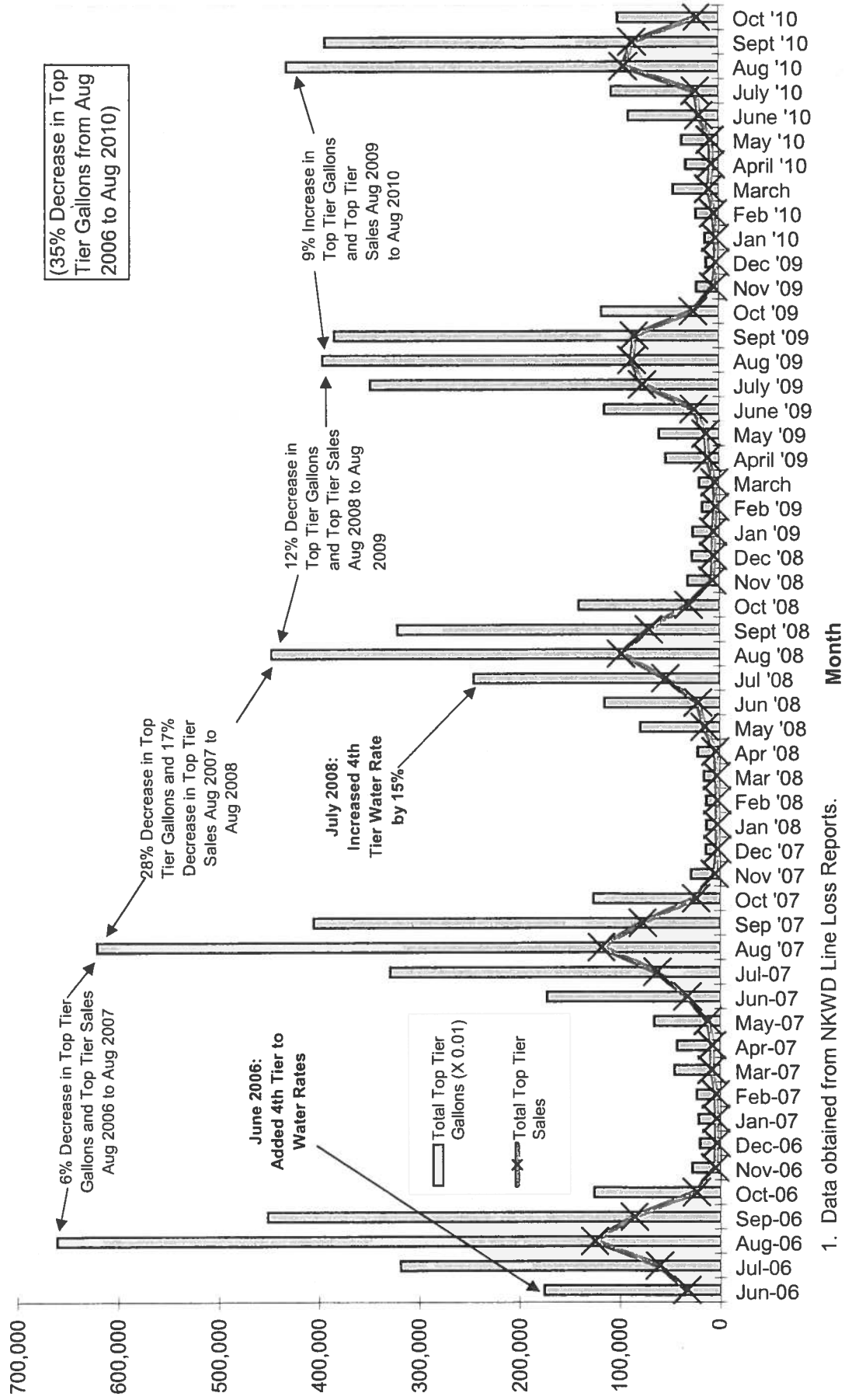
Figure 1 (on the following page) compares the top tier gallons consumed and the monthly revenue between 2006 and 2010.

As shown in Figure 1, there was a 6% decrease in both the top tier consumption and sales for the peak month (August) between FY 2005/2006 and FY 2006/2007. A 28% decrease in the top tier consumption and a 17% decrease in the top tier sales occurred for the peak month (August) between FY 2006/2007 and FY 2007/2008. A 12% decrease in top tier consumption and sales for the peak month (August) between FY 2007/2008 and FY 2008/2009 was realized. A 9% increase in top tier consumption and sales for the peak month of August occurred between FY 2008/2009 and FY

2009/2010. However, it should be noted that a 17% decrease in top tier consumption and sales for the peak months of July, August and September was realized between FY 2008/2009 and FY 2009/2010. These were significant decreases in consumption for users in the top tier which point to dramatic conservation in the top tier of use and an apparent correlation between the increase in water rates and decrease in consumption.

During FY 2009/2010, the District collected approximately \$289,460 in top tier sales. Thus, approximately \$23,157 (8 percent of the total top tier sales) was deposited into the conservation fund in FY 2009/2010. Based on estimated costs provided by the District, approximately \$145,950 was spent on conservation-related items (i.e. rebates, leak repairs, meter replacements and hydrant locks). It should be noted that some of these items were paid for through improvement projects and thus did not come from the conservation fund.

Figure 1:
Top Tier Gallons and Sales (per Month)¹



1. Data obtained from NKWD Line Loss Reports.

2.3. CONSUMPTION

The following section provides an analysis of the total water sold in the peak months (July, August and September) for each water system.

Figure 2 (on the following page) provides the District-wide average daily consumption per connection for the July, August and September billing months³ between 2001 and 2010. The figure provides a comparison of the average daily demand per connection to the average daily temperature for these three months⁴.

A review of Figure 2 demonstrates a strong correlation between the increase in water rates (years 2006 and 2008) and a decrease in the average daily consumption for the peak months in the following year. This was previously foreshadowed by the decreasing sales and consumption for the top tier as described in Section 2.2 and as shown in Figure 1 of this report.

Reviewing the decrease in the average daily consumption for the peak months of 10.2% between 2006 and 2007, 15.2% between 2007 and 2008, 0.1% between 2008 and 2009 and 14.4% between 2009 and 2010 (overall a 35% decrease has occurred since 2006); it appears that the District's more aggressive approach to conservation over the last few years⁵ has been a success.

³ Meters are read approximately mid-way through each month. Therefore, consumption for the August billing month, for example, includes the consumption that occurred during the last half of July and the first half of August.

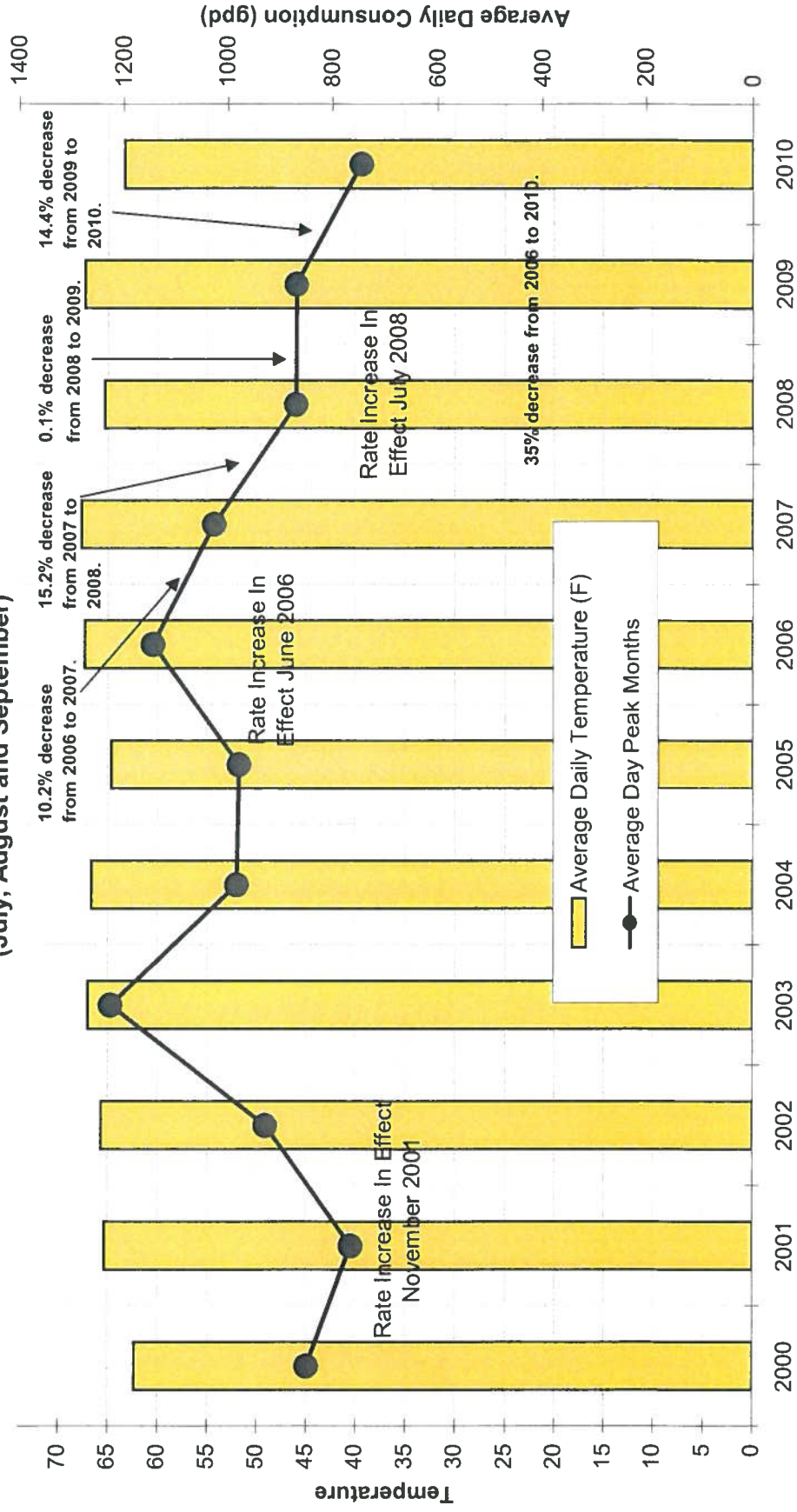
⁴ There are two reasons for focusing on the average daily consumption for the peak months (July through September) as listed below:

1. Meters are not read through the winter months in most areas due to snow and ice covering the meters. Meter reading typically starts in March or April and in these months adjustments are made to compensate for the estimated winter usage. Therefore, the most accurate consumption data is gathered between May and October.
2. Historically, for NKWD, July through September is typically the warmest period during the year and shows the highest consumption due to outdoor water use. Furthermore, outdoor water use is typically the highest percentage of a customer's consumption. Thus, in order to make the largest impact in conservation, it makes sense to target savings in outdoor water consumption.

Therefore, the goals pertaining to consumption will be set based upon the average daily consumption for these peak months.

⁵ Since 2001, the District has recognized and promoted conservation as is evidenced by the rate increase established in 2001 and has promoted conservation in their semi-annual newsletters. However, in 2006, the District took two major steps forward in promoting conservation including the establishment of the 4th water rate tier for consumption over 30,000 gallons per month, as well as the first draft of a water conservation plan. The water conservation plan developed in 2006 was refined in 2007 to meet the requirements of the Rathdrum Prairie Aquifer Groundwater Management Plan.

Figure 2:
Average Daily Consumption per Connection (July, August and September) vs. Average Daily Temperature
(July, August and September)¹



1. Based on Consumption Meter Data Provided by NKWD.
2. Average daily consumption for the billing months of July through September. Billing/metering periods are mid-month to mid-month. Therefore, for example, July represents June 15 through July 15.
3. Temperature data for Coeur d'Alene was obtained from the Weather Underground website. www.wunderground.com.

The highest average daily consumption for the 8-year period occurred in the year with a high average daily temperature (2003). Noting the trend of higher average demands during years with higher temperatures, the relationship between temperature and average daily demand was evaluated and is shown in Figure 3 (on the following page). The purpose of evaluating the temperature-demand relationship was to be able to estimate the impact of temperature on demand so that the impact of conservation measures on demand could be more exclusively evaluated.

Figure 3 demonstrates the function of demand based on temperature using the data provided prior to implementation of conservation measures (between 2000 and 2005). The function, therefore, can be used to predict what the demand would be for a given year if conservation measures were not implemented based on the temperature for that year. This function is as follows:

$$Y = 55.046 X - 2638.5$$

The average daily temperature during the peak months for 2010 was 63.33 degrees Fahrenheit. Thus, using the data provided, it is predicted that if conservation measures had not been implemented, the average daily demand per connection for the peak months would be approximately 848 gallons per day. Based on data for 2010, however, the actual average daily demand for the peak months was approximately 744 gallons per day per connection. Therefore, it appears that a savings of approximately 104 gallons per day per connection, or 12%, was realized during the peak months of 2010. It should be noted, however, that the function illustrated in Figure 3 does not take into account other factors that likely impact average daily demand such as precipitation and economic climate.

Figure 3:
Temperature¹ Vs. Average Daily Demand (July-Sept) Per Connection

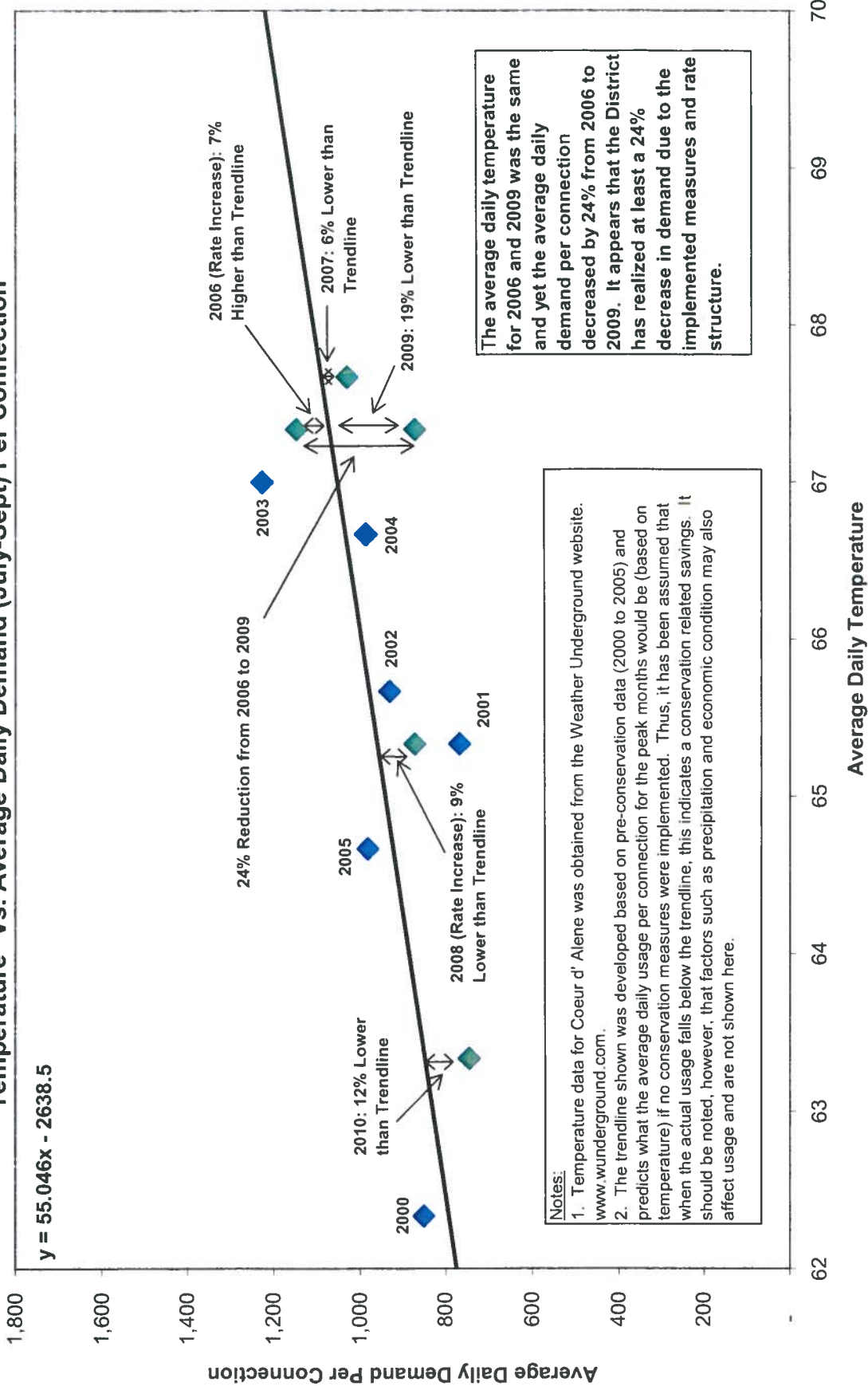


Figure 4 (on the following page) provides the average daily consumption per connection for the peak months (July, August and September) for each year from 2001 through 2010 for each water system.

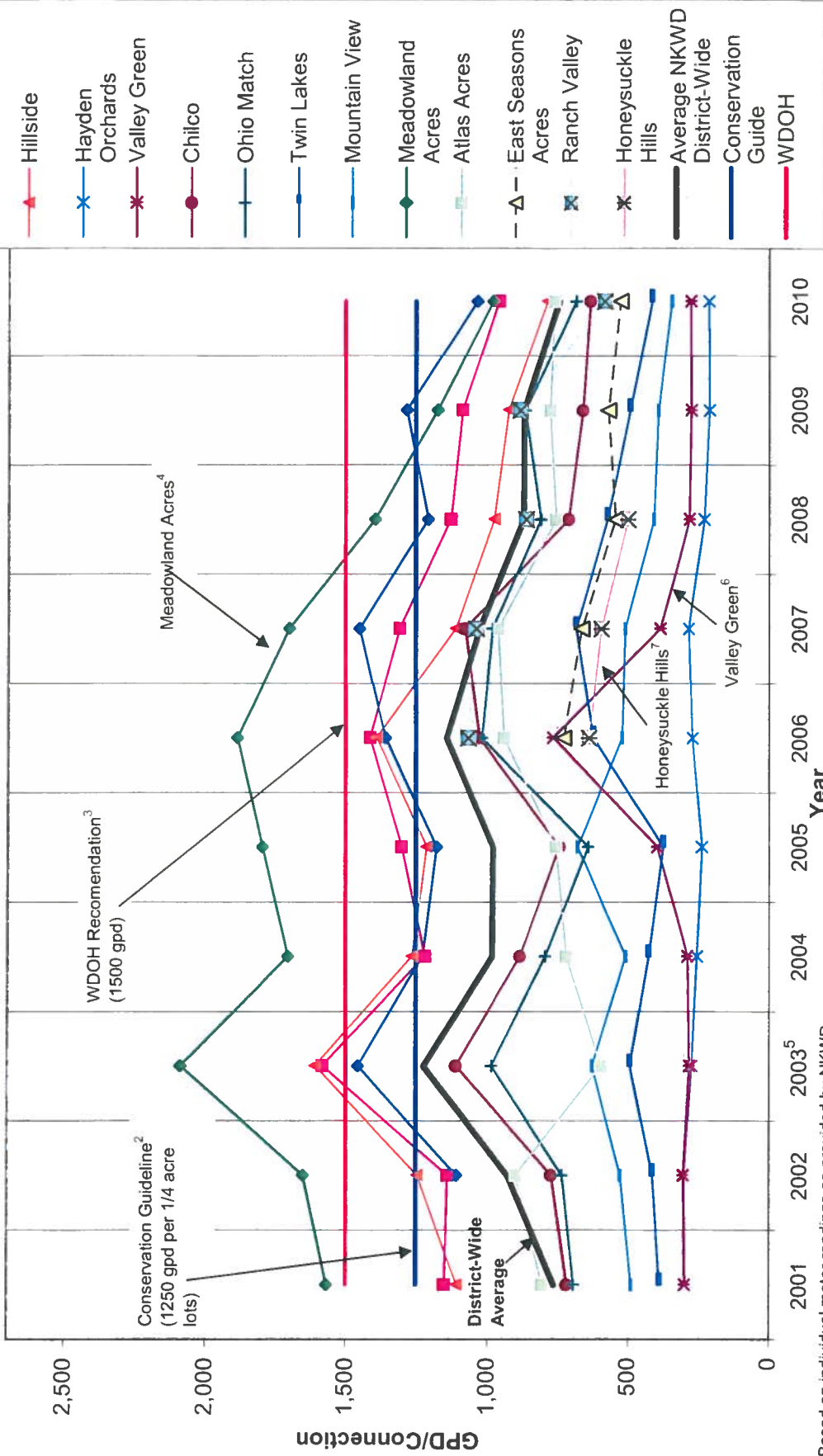
This graphic compares the average daily consumption per connection for each system to the District-wide average (744 gallons per day per connection in 2010), as well as to the conservation guideline (domestic use and irrigation) that was established in part by Kootenai Environmental Alliance for a typical 0.25 acre lot (1,250 gallons per day per connection) and the Washington Department of Health guideline of 1,500 gallons per day per connection.

As shown, the District-wide average has been below the conservation guideline over the last 10 years. It should be noted that the following water systems are routinely above this average: Rimrock, Meadowland Acres, Hillside and Hayden Pines. Both Rimrock (958 gallons per day per connection in 2010) and Meadowland Acres (978 gallons per day per connection in 2010) have much larger lots than average. Each lot in Meadowland Acres, for example, is approximately 5 acres in size. The Hillside water system (787 gallons per day per connection in 2010) has several large homes with extensively landscaped yards.

The Hayden Pines water system (1,034 gallons per day per connection in 2010) has a larger number of commercial users than any of the other water systems, including several restaurants, a large strip mall, car wash and several banks and office buildings, which most likely explains the higher usage.

It can be concluded for all of the District's systems, as shown in Figure 4, that the average daily water consumption for the peak months has declined since 2006.

Figure 4:
North Kootenai Water District
Average Day Demand (Peak Months) per Connection¹



1. Based on individual meter readings as provided by NKWD.

2. Conservation guideline for average day use during irrigation season with 1/2 acre lots as discussed with Kootenai Environmental Alliance Representatives. Assumes 250 gpd for domestic use and 1,000 gpd for irrigation (approx. 1 inch per week per 1/4 acre lawn.)

3. 1999 Washington State Department of Health Water System Design Manual references historic guideline of 1500 gpd for MDD in eastern Washington.

4. Meadowland Acres experiences high demand due to its large lot size (average lot size 3.4 acres). Rimrock average lot size is 2.8 acres. Hillside average lot size is 0.9 acres.

5. The year 2003 had a high summer month average temperature.

6. Valley Green customers are served domestic water by NKWD and irrigation water by Hayden Irrigation District. In the past 2 years many property owners have started to use NKWD for irrigation and domestic.

7. Honeysuckle Hills was combined with Hillside for accounting purposes in March 2009.

\\Nas-01\Projects\K1111233\WaterUsageRateHistoricalWorking.xls

average day peak month

2.4. PRODUCTION AND SYSTEM LOSS

Table 2 provides a comparison of the total water produced and the reported line loss on a fiscal year basis. During FY 2008/2009, the District produced 670.93 million gallons and recorded a loss of approximately 6.8% (45.94 million gallons). The production decreased in FY 2009/2010 by 102.88 million gallons to 568.05 million gallons and the recorded system loss decreased to approximately 4.9% (27.9 million gallons).

With respect to line loss, it should be noted that a portion of the hydrants in systems for which fire flow is provided (Twin Lakes, Hillside, Rimrock, Atlas Acres) are tested each year. In addition, due to iron sedimentation in the system, flushing occurs on the Rimrock system each time a line repair is completed. The District completed a large waterline replacement project during the summer of 2010 that required a significant amount of flushing to occur in the Rimrock system⁶. Water expended during hydrant testing and flushing is not tracked and is therefore presented as line loss. The number of times flushing occurs within a given year is dependent on system conditions and operation and is not readily quantified.

In reviewing the line losses for each system within the District, seven systems indicated negative line loss, which is impossible and mostly inconsistent with the previous years. These systems include the following:

- Hillside/Honeysuckle Hills (-8.9%)⁷
- Chilco (-6.7%)
- GTE/Hayden Pines (-22.7%)
- Valley Green (-1.5%)
- Meadowland Acres (-2.8%)
- East Seasons Acres (-20.4%)
- Ranch Valley (-6.7%)

Based on the above, the District still has meter inaccuracies and system losses that need to be resolved.

⁶ The Avondale Phase 1/Point Hayden Waterline Replacement project included replacement of approximately 24,000 linear feet of leaking steel waterlines along Avondale Lane, Avondale Loop, Brighton Court, Thames Court, Kensington, Merman, Trafalgar, Avon Avenue/Circle, Point Hayden Drive and Lake Forest Drive.

⁷ It should be noted that production readings were not taken for the Hillside/Honeysuckle Hills system in October of 2010. This likely accounts for the negative line loss shown for this system.

Table 2: Fiscal Year Production and Line Loss Summary for 2006/2007 Through 2009/2010

TABLE 2.1

2006/2007 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	234,431,000	212,853,697	21,577,303	9.2%	975
Hillside/Honeysuckle Hills	260,526,700	197,767,900	62,758,800	24.1%	1,004
Twin Lakes	63,903,400	80,456,000	-16,552,600	-25.9%	653
Chilco	40,139,700	29,037,600	11,102,100	27.7%	115
Ohio Match	6,624,600	6,118,000	506,600	7.6%	38
GTE/Hayden Pines	93,622,500	93,807,300	-184,800	-0.2%	390
Hayden Orchards	4,762,036	3,830,000	932,036	19.6%	50
Valley Green	5,755,500	5,204,600	550,900	9.6%	58
Mountain View	19,978,100	17,256,718	2,721,382	13.6%	165
Meadowland Acres	5,904,700	5,853,600	51,100	0.9%	21
Atlas Acres	2,575,400	2,228,500	346,900	13.5%	15
East Seasons Acres	2,242,700	2,611,900	-369,200	-16.5%	21
Ranch Valley	3,450,300	3,429,800	20,500	0.6%	17
District-wide Total	743,916,636	660,455,615	83,461,021	11.2%	3,522

TABLE 2.2

2007/2008 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	220,079,000	176,916,695	43,162,305	19.6%	993
Hillside/Honeysuckle Hills	215,223,600	168,512,983	46,710,617	21.7%	1,034
Twin Lakes	79,539,900	66,084,120	13,455,780	16.9%	687
Chilco	18,304,500	18,643,099	-338,599	-1.8%	119
Ohio Match	6,177,100	5,675,300	501,800	8.1%	39
GTE/Hayden Pines	93,482,000	83,610,219	9,871,781	10.6%	397
Hayden Orchards	4,342,410	3,267,720	1,074,690	24.7%	50
Valley Green	4,695,800	4,237,440	458,360	9.8%	58
Mountain View	16,833,300	13,659,239	3,174,061	18.9%	173
Meadowland Acres	4,562,200	4,527,920	34,280	0.8%	23
Atlas Acres	6,630,900	3,083,423	3,547,477	53.5%	18
East Seasons Acres	1,936,700	2,160,700	-224,000	-11.6%	22
Ranch Valley	2,837,300	2,590,850	246,450	8.7%	17
District-wide Total	674,644,710	552,969,708	121,675,002	18.0%	3,630

TABLE 2.3

2008/2009 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	217,275,000	189,604,400	27,670,600	12.7%	1032
Hillside/Honeysuckle Hills	230,061,800	194,766,300	35,295,500	15.3%	1,340
Twin Lakes	76,915,000	78,022,600	-1,107,600	-1.4%	841
Chilco	21,542,500	22,384,800	-842,300	-3.9%	122
Ohio Match	6,845,700	6,146,700	699,000	10.2%	40
GTE/Hayden Pines	79,011,500	99,087,100	-20,075,600	-25.4%	479
Hayden Orchards	4,209,700	3,244,400	965,300	22.9%	49
Valley Green	4,420,800	4,155,000	265,800	6.0%	55
Mountain View	17,170,800	14,526,000	2,644,800	15.4%	171
Meadowland Acres	4,320,300	4,381,800	-61,500	-1.4%	23
Atlas Acres	3,899,900	3,074,600	825,300	21.2%	23
East Seasons Acres	2,243,100	2,689,100	-446,000	-19.9%	22
Ranch Valley	3,010,900	2,907,400	103,500	3.4%	17
District-wide Total	670,927,000	624,990,200	45,936,800	6.8%	4,214

TABLE 2.4

2009/2010 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	198,788,000	169,169,700	29,618,300	14.9%	1040
Hillside/Honeysuckle Hills	148,374,200	161,640,700	-13,266,500	-8.9%	1,198
Twin Lakes	87,268,388	65,758,900	21,509,488	24.6%	843
Chilco	20,982,000	22,377,700	-1,395,700	-6.7%	124
Ohio Match	5,120,100	4,591,300	528,800	10.3%	40
GTE/Hayden Pines	68,489,520	84,015,400	-15,525,880	-22.7%	484
Hayden Orchards	4,789,400	3,526,800	1,262,600	26.4%	49
Valley Green	4,185,500	4,246,200	-60,700	-1.5%	54
Mountain View	18,611,100	13,225,400	5,385,700	28.9%	171
Meadowland Acres	3,776,600	3,881,300	-104,700	-2.8%	24
Atlas Acres	3,436,300	2,909,700	526,600	15.3%	24
East Seasons Acres	2,118,500	2,551,200	-432,700	-20.4%	22
Ranch Valley	2,111,500	2,253,100	-141,600	-6.7%	17
District-wide Total	568,051,108	540,147,400	27,903,708	4.9%	4,090

TABLE 2.5

System	Percent Line Loss				
	2006/2007	2007/2008	2008/2009	2009/2010	3-Year Average
Rimrock	9.2%	19.6%	12.7%	14.9%	15.7%
Hillside/Honeysuckle Hills	24.1%	21.7%	15.3%	-8.9%	9.4%
Twin Lakes	-25.9%	16.9%	-1.4%	24.6%	13.4%
Chilco	27.7%	-1.8%	-3.9%	-6.7%	-4.1%
Ohio Match	7.6%	8.1%	10.2%	10.3%	9.6%
GTE/Hayden Pines	-0.2%	10.6%	-25.4%	-22.7%	-12.5%
Hayden Orchards	19.6%	24.7%	22.9%	26.4%	24.7%
Valley Green	9.6%	9.8%	6.0%	-1.5%	4.8%
Mountain View	13.6%	18.9%	15.4%	28.9%	21.1%
Meadowland Acres	0.9%	0.8%	-1.4%	-2.8%	-1.1%
Atlas Acres	13.5%	53.5%	21.2%	15.3%	30.0%
East Seasons Acres	-16.5%	-11.6%	-19.9%	-20.4%	-17.3%
Ranch Valley	0.6%	8.7%	3.4%	-6.7%	1.8%
District-wide Total	11.2%	18.0%	6.8%	4.9%	9.9%

2.5. CONCLUSIONS

Consumption

Based on the data provided by the District with respect to consumption and production for FY 2009/2010, it appears that the conservation measures that the District has implemented are taking affect.

As can be seen in Table 3 below, the District sold an estimated 624.99 million gallons during FY 2008/2009 and an estimated 540.15 million gallons during FY 2009/2010. The use per connection decreased by 11% between FY 2008/2009 and FY 2009/2010. The use per connection has decreased 29.6% between FY 2006/2007 and FY 2009/2010.

Table 3 - Savings in Gallons Sold per Connection on a Fiscal Year Basis

Savings in Gallons Sold on a Fiscal Year Basis					
Fiscal Year	Total Gallons Sold	Average Billed Connections	Gallons Sold per Connection	Percent Water Savings	Gallons Saved
2006/2007	660,455,615	3,522	187,523		
2007/2008	552,969,708	3,630	152,333	18.8%	127,738,379
2008/2009	624,990,200	4,214	148,313	2.6%	16,942,128
2009/2010	540,147,400	4,090	132,065	11.0%	66,452,011

Percent Water Savings from FY 2006/2007 to FY 2009/2010: 29.6%

Table 4 below provides a comparison of the average daily demand per connection for the peak months of July, August and September. As can be seen, a savings of 14.3% was realized between FY 2008/2009 and FY 2009/2010 and a total savings of 34.9% has been realized between FY 2005/2006 and FY 2009/2010.

Table 4 - Average Daily Demand per Connection (gpd) for Peak Months (July, August and September)

System	FY 2005/2006	FY 2006/2007	FY 2007/2008	FY 2008/2009	FY 2009/2010
Rimrock	1,413	1,306	1,127	1,086	958
Hillside/Honeysuckle Hills	1,190	974	849	923	787
Twin Lakes	626	685	573	492	416
Chilco	1,027	1,077	712	661	635
Ohio Match	1,019	981	810	865	685
GTE/Hayden Pines	1,357	1,449	1,206	1,281	1,034
Hayden Orchards	272	285	229	210	212
Valley Green	767	386	282	276	276
Mountain View	523	510	409	393	346
Meadowland Acres	1,887	1,703	1,393	1,173	978
Atlas Acres	940	960	756	777	761
East Seasons Acres	731	666	544	570	526
Ranch Valley	1,066	1,039	862	883	582
District-wide Average	1,143	1,026	870	869	744
Percent Savings		10.2%	15.2%	0.2%	14.3%

Percent Savings (2006 to 2010): 34.9%

Goal #1 is to accomplish a 25% reduction in the average daily demand per connection for the peak months by the end of the year 2013.

As was discussed in Section 2.3, the District-wide average daily demand per connection during the peak months (July, August and September) for FY 2009/2010 was 744 gallons per day. This represents a 12% savings over the predicted usage (based on pre-conservation data, see Figure 3) of 848 gallons per day per connection.

It should also be noted that the District has seen a 35% reduction in the average daily consumption per connection during the peak months (July, August and September) from FY 2005/2006 to FY 2009/2010, when consumption is considered independently of temperature.

Production and System Loss

As can be seen in Table 5 below, the District produced an estimated 670.93 million gallons during FY 2008/2009 and an estimated 568.05 million gallons during FY 2009/2010. The gallons produced per connection on a fiscal year basis decreased approximately 12.8% between FY 2008/2009 and FY 2009/2010. It should also be noted that the production per connection has decreased 34.2% between FY 2006/2007 and FY 2009/2010.

Table 5 - Savings in Gallons Produced on a Fiscal Year Basis

Savings in Gallons Produced on a Fiscal Year Basis					
Fiscal Year	Total Gallons Produced	Average Billed Connections	Gallons Produced per Connection	Percent Water Savings	Gallons Saved
2006/2007	743,916,636	3,522	211,220		
2007/2008	674,644,710	3,630	185,853	12.0%	92,083,680
2008/2009	670,927,000	4,214	159,214	14.3%	112,255,592
2009/2010	568,051,108	4,090	138,888	12.8%	83,133,379

Percent Water Savings from FY 2006/2007 to FY 2009/2010: 34.2%

It was identified in Section 2.4 that meter inaccuracies exist between the production and consumption readings. These inaccuracies can be attributed to:

1. Adjustments for non-read months
2. Meter errors (broken meters)
3. Recording errors

Whether the estimated line loss is relative to meter/data inaccuracies or system leakage, the District must address conservation on the production side (reduction of system loss). Therefore, it is recommended that the District maintain the goal of achieving a maximum 10% line loss in their systems within the next 10 years based on a 3-year rolling average. The 10% system loss is established based on "industry standards."

Industry standards for loss are well established. The accepted industry standard for system loss is 10% to 20%. The American Water Works Association's Year 2000, "Water Distribution Systems Handbook," indicates, "A commonly accepted rule of thumb for acceptable levels of unaccounted-for water is 15 percent, although this value is highly site specific." Additionally, we note here that the Washington State Department of Health (WSDOH) has set forth through the new Water Use Efficiency requirements a distribution system leakage (DSL) standard which will eventually require systems to come into compliance with a maximum 10% DSL based upon a 3-year rolling average. Systems with fewer than 500 connections will be allowed up to 20% DSL.

3. RECOMMENDED GOALS AND MEASURES FOR FISCAL YEAR 2010/2011

The following goals are recommended for implementation in FY 2010/2011:

Goal #1: The District initiated its conservation program in 2006. The District's goal for this program is to accomplish a 25% reduction in the average daily demand (per connection) for the peak months (July through September) by the end of 2013 using a variety of strategies including, but not limited to, those implemented in FY 2008/2009.

Supporting Measures:

In order to achieve Goal #1, the District will continue with the currently implemented conservation measures namely, mandatory non-irrigation hours, rebate program, education, tiered water rate structure and other measures as described in Section 2.1. Refer to the 2008 Annual Report for additional description of these measures.

Goal #2: Reduce or eliminate identified meter inaccuracies throughout the District's systems.

Supporting Measures

In order to achieve Goal #2, the District may install seven new registers (the part of the meter that records flow data) to allow for electronic/remote read through a SCADA system, on the master meters at the following sources:

1. Atlas Acres
2. East Seasons (including installation of a SCADA system)
3. Lancaster 1 and 4 (Rimrock)
4. Tree Farm 2 (Twin Lakes)
5. Hayden 1 (Hillside)
6. Finucane (GTE/Hayden Pines)

In addition, the District intends to complete replacement of approximately 154 aged individual meters with radio read meters as part of a large waterline replacement project on the Rimrock system, provided funds are available to do so.

Goal #3: Reduce the average production per connection by achieving an average annual line loss of 10% (based on a 3-year rolling average)⁸ within 10 years (by the end of 2018) on each of the District's systems.

Supporting Measures

In order to achieve Goal #3, the District is implementing the following measures:

1. The District plans to complete leak detection on the Chilco and Twin Lakes water systems during FY 2010/2011.
2. The District will continue toward the completion of their Fire Hydrant Lock Program.
3. The District has included replacement of approximately 18,300 linear feet of aged steel water main in the Rimrock system within their 10-year Capital Improvement Plan (CIP). This project is currently slated to occur in 2011, pending available funds.

⁸ This goal will be met when the average line loss for three consecutive years is equivalent to 10% of the total water produced.

APPENDIX A

2009 / 2010

NEWSLETTERS



September, 2009

2009, Issue 9

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.



Revenue Bond Election

As a result of the recent Revenue Bond Election held on August 4th, where the voters cast ballots in favor of a new revenue bond, your October 2009 statement will reflect the following changes: the existing bond for \$3.82 will be paid off and a new bond for \$6.94 will appear. The additional amount of \$3.12 per month will allow the District to proceed immediately with Capital Improvement projects which would otherwise have been held off to the future.

Construction

- ♦ **The Falls at Hayden Lake** is almost complete on the installation of new water mains within the development. The Falls at Hayden Lake consists of 46 single family parcels located on English Point Road east of Strahorn Road. This subdivision's contribution to the existing water system will include a significant pump station upgrade to the Springrock Booster Pump Station, a fractional share of a future well, and a fractional share of a new transmission main.
- ♦ **Hayden Well #2** ~ On September 17th the District will have opened bids on the completion of Hayden Well #2. The well was drilled last fall. The completion phase will include a new well pump, related electrical controls, underground piping, and a new well house.
- ♦ **Point Hayden Water Line Replacement** ~ steel water mains in the Point Hayden area are planned to be replaced in the summer of 2010.
- ♦ **Springrock Booster Station Upgrades** ~ To increase system pressure in the northern Avondale Additions, new pumps and 3 phase power will be added to the existing Springrock Booster Station.
- ♦ **Echo Beach Pump Station Improvements** ~ This pump station is in need of replacement.
- ♦ **Planned Projects** ~ the District is currently doing the survey work in Avondale for the water main project scheduled for Spring of 2010. The District is working with Lakes Highway District on a cooperative effort for street repaving in conjunction with this project.



Other Items



Conservation Measures ~ The District would like to thank all of you for doing your part to conserve water during this summer season. In our area, we experienced 20 days of 90° or higher temperatures. In spite of this, our overall water usage in August was lower by 4.9% from the prior August!

Digging ~ Remember, you must call 811 before digging for any reason, at any depth, at least 48 hours prior to digging. **Locates Are Free, Repairs Are Not!**



October, 2009

2009, Issue 10

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.



Revenue Bond Update

The new bonds will go to the bond market in October. The District was fortunate in securing the backing of the Idaho Bond Bank for this issue; providing the bonds with a double A2 rating on the market. Seattle NW Securities, out of Boise, is handling the sale of the bonds for the District. Proceeds will be used to fund Capital Improvement projects that will benefit our existing constituents.

Don't forget ~ the amount you are charged for Bond payment will increase on your October statement from \$3.82 to \$6.94 per unit.

Other Items

Snow Birds ~ If you head South for the winter, and wish to have your water service shut off "at the meter", please notify the office at **772-3619** to schedule a service call. It is important to remember that you must notify us 48 hours in advance (Monday - Friday) to schedule the turn on in the Spring. There is no charge for this service provided you call in advance.

Meter Insulation ~ It's getting cold! District staff will be installing foam insulation in your meter boxes to hold ground heat in and prevent your water meter from freezing. Conventional fiberglass insulation batts get wet in this environment and are not recommended.

Meter Reading ~ Usually October is the last month for reading meters but if the snow holds off we'll read again in November. The word 'Estimate' will appear on your statement when estimating begins. Estimated readings are reconciled in the Spring with the first actual meter reading of the new year.

Bill Payments ~ For fast, convenient bill payment processing log on to www.nkwsd.com to make your payment!

Construction



- ◆ **Hayden Well #2** ~ Work is now underway for the installation of the new well house and related mechanical and electrical components for Hayden Well #2. When completed, the new well and pump will provide approximately 1,600 gallons of water per minute to the Hillside and Grouse Meadows service areas. TML Construction of Hayden is the General Contractor for this project.
- ◆ **Point Hayden Water Line Replacement** ~ Steel water mains in the Point Hayden area are planned to be replaced in the summer of 2010.
- ◆ **Springrock Booster Station Upgrades** ~ To increase system pressure in the northern Avondale Additions, new pumps and 3 phase power will be added to the existing Springrock Booster Station.
- ◆ **Echo Beach Pump Station Improvements** ~ This pump station is in need of replacement.
- ◆ **Planned Projects** ~ The District is currently doing the survey work in Avondale for the water main project scheduled for Spring of 2010. The District is working with Lakes Highway District on a cooperative effort for street repaving in conjunction with this project.

Conservation Measures



When you add or replace a flower or shrub, choose a low water use plant for year-round landscape color and save up to 550 gallons each year.

Digging

You must call **811** before digging for any reason, at any depth, at least **48 hours** prior to digging. **Locates Are Free, Repairs Are Not!**





November, 2009

2009, Issue 11

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Notes From The Office:



First, the Board and Staff would like to wish each of you a safe and happy Thanksgiving!

Now business, please note, due to freezing conditions we were not able to read all of the meters this month. Estimated accounts will be adjusted with the next actual meter reading taken, typically in the spring.

Remember, you must call **811** before digging for any reason, at any depth, at least **48 hours** prior to digging. **Locates Are Free, Repairs Are Not!**



Construction Update:

- ♦ **Hayden Well #2** ~ Construction work for the underground piping and new pump house is well underway. The new well will be online by late spring 2010 and will service the Hillside and Honeysuckle Hills service areas.
- ♦ **GTE Facility Improvements** ~ The pump station serving the Grouse Meadows, Hayden Pines, and Prairie Shopping Center areas will undergo a major remodel this winter. Funded by developer contributions, a new well pump and new booster pumps will be installed to service this area. A standby generator is also included in this upgrade.
- ♦ **Rimrock Improvements** ~ We are currently working on the engineering for replacement of the steel water mains in much of the Avondale and Point Hayden areas. Work on this project will go out to public bidding in early spring of 2010, with construction scheduled to begin in 2010.
- ♦ **Twin Lakes Improvements** ~ The Twin Lakes service area will see an upgrade to the Echo Beach Booster Station facility. This upgrade will replace the existing structure.
- ♦ **Other Projects** ~ As you all know, the Idaho Transportation Department (ITD) is working in our area to make Hwy 95 a divided 4 lane road. Plans for 2010 include a segment of improvement in the Chilco area. The District has a water line on the east side of Hwy 95 that will be impacted by this ITD project. We are working toward a solution that asks ITD to fund the impacted water line with GARVEE money. GARVEE bonds are the funding source for the highway improvements.

Conservation Update:

The Board of Directors and Staff will be reviewing and updating the District's Conservation Plan. New ideas will be discussed, and we'd like you, our constituents, to weigh in with your ideas for water conservation. Please e-mail any ideas you have on water conservation to contactus@nkwsd.com. This past summer water conservation within the District led to a reduction in consumption of 9%. This is significant considering that we had over 20 days of 90+ degree weather this past summer. Thanks to all of you for using the resource wisely!



December
November, 2009

2009, Issue ¹²/₁₁

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Corner Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Notes From The Office:



We at North Kootenai Water District would like to wish each of you a very Merry Christmas & Happy (but safe) New Year!

Some of you have requested 'paperless' billing (email statements). We'd like to know if there is enough interest in this option. This month, if you'd like to have the paperless option, please note this on your return statement. Of course we will always continue to offer the conventional mailed statements.

Remember, you must call **811** before digging for any reason, at any depth, at least **48 hours** prior to digging. **Locates Are Free, Repairs Are Not!**

Construction Update:

- ◆ **Hayden Well #2** ~ The District is working on major improvements to our Hayden Well site. Well #2, which was drilled last year, is now in the pump house, piping, and electrical stage of construction. This well will provide additional water to the Hillside Service area and the Honeysuckle Hills area.
- ◆ **Walmart** ~ By now everyone has seen the construction taking place on Honeysuckle and Hwy 95 for the new Walmart SuperCenter. The stores impact on the Hayden Pines/Grouse Meadows system for additional fire flows will mean new improvements to the main pump station serving this area. Walmart, as well as other new developments on this system, are funding the improvements.
- ◆ **2010 Projects** ~ Currently under design is the much needed Avondale steel waterline replacement project. This will also include the Point Hayden area. Our goal is to be ready for public bids in late February or early March. Along with this project, we are also planning for upgrades to the pressure booster system at our
- ◆ Springrock reservoir site.

Conservation Update:

The Board of Directors is currently reviewing revisions to our Conservaton Plan. We'd like to hear from you, our constituents on conservation measures you'd like to see implemented.

With the winter cold temperatures it's important to keep an eye out for broken pipes. Moving water in very cold temperatures indicates that a pipe may have broken. Please report suspected leaks to the District office so we can investigate them.





February 2010

2010, Issue 2

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

From the Office:

January Billing ~ In an effort to reduce costs & reduce our time spent on billing we began 'Outsourcing' our statements in January. This means we 'create' the file that contains the information for your bill, but we send the file to a local printing firm where they print and mail the statements for us. After the bills were originally sent we were informed of a couple of errors that were not picked up in the 'test' run. Because one of these errors was significant (addressing) we decided it was best to send a second statement marked 'Corrected Bill'. We apologize for any confusion this generated and can assure you that the problem has been corrected.



Honeysuckle Hills LID Billing ~ The 2010 statements have been mailed to our Honeysuckle Hills customers. Payments are due by 03/20/10 to avoid a 2% late penalty.

From the Field:



Remember, you must call 811 before digging for any reason, at any depth, at least **48 hours** prior to digging.

Locates Are Free, Repairs Are Not!

Meter Reading ~ Reading of the meters will resume in March for many of our systems. Accounts that have been estimated through the winter will be adjusted based on the actual consumption recorded. Also, when the meters are read, the crew will paint the meter lids and trim any shrubs that obstruct access to the meter box.

Rimrock Outage ~ A break in the 12" water main on Lancaster Road occurred on February 4th. Our crews responded immediately and worked diligently through the day & evening to repair the line and restore service to our customers.

Hayden Pines/Grouse Meadows Outage ~ A loss of pressure occurred on February 4th due to a computer glitch; the computer locked up and had to be restarted.

Hayden Well #2 ~ The pump has been installed and the electrical is being finalized. This project should be wrapping up this month.

Walmart ~ The shutdown scheduled in January went very well and the project is moving along nicely.

Lancaster #4 ~ The well has been drilled and we are currently out to bid for the pump and piping.

Selkirk Meadows Pump House ~ This pump house is currently being remodeled and a new pump is being installed.

Conservation Update:

The Board of Directors is reviewing the final draft of the proposed Conservation Plan.

Spring is rapidly approaching! Did you know that a taller lawn shades roots and holds soil moisture better than if it is closely clipped? Consider adjusting your lawn mower to a higher setting.



March 2010

2010, Issue 4

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

From the Office:



Billing ~ In January we began outsourcing our statements to a local printing company. As many of you are aware, there have been some problems with the data reflected on the statements. We have been promised by the printing firm that the issues have been corrected and the March bills will be correct. Believe us when we tell you that this is as frustrating for us and the printer as it is for you!



Meters in the Hayden Pines/Grouse Meadows, Rimrock, Hillside, Hayden Orchards, Valley Green, Mountain View Terrace, Meadowland Acres & Honeysuckle Hills service areas were read for the first time since October. If your account was 'over' or 'under' estimated during the winter, you will see an adjustment on this bill. The remaining service areas will be read and adjusted next month.

From the Field:

Backflow Testing ~ Springtime is backflow testing time. Please remember that each year homes and businesses that have an automatic sprinkler system must have their annual backflow valve tested by a state certified backflow tester. Most of the sprinkler companies and landscaping companies have certified testers on staff. For your convenience, a sample listing is available on our web site www.nkwsd.com

Digging ~ Remember, you must call 811 before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!



Conservation Update:

The District is once again offering drought resistant grass seed and drought resistant wild flower seeds to our customers at no charge. Seed packets are available at the District office.



Construction News:



Lancaster #4 Well ~ Drilling is now complete. The new 20" diameter well was completed in the Rathdrum Prairie Aquifer to a depth of 370'. The completion of the project is the pump installation, underground piping, pump house modifications and final testing. A complete spectrum of required DEQ water samples will be submitted to the lab for analysis.

The low bidder for the pump portion of the job is Lawrence Construction from Rathdrum.

Grouse Meadows/Hayden Pines Well and Pump System Improvements ~ Increased capacity for the District's GTE pump station serving the Grouse Meadows, Hayden Pines, Prairie Village Shopping Center, and Cornerstone Business Park is now underway. TML Construction of Hayden is the contractor on the job. This pump station upgrade will include a new well pump, new booster pumps, and a standby generator for auxiliary power. Construction is expected to last 4 months.

Hayden Well #2 ~ The new well and pump system for the Hillside Service Area is nearly complete. The new pump and controls were tested on March 11th, and final items on the job will be completed in the next two weeks. This well will provide source redundancy for the Hillside area.

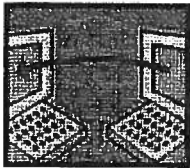
Atlas Acres/Selkirk Meadows ~ A new well pump is being installed in the Selkirk Meadows well. The old pump house has been torn down and is being reconstructed by District staff. This work should be complete in the new few weeks.

Twin Lakes Service Area ~ Plans are currently being designed for a replacement pump house at the Echo Beach well and reservoir facility. This will be constructed later this summer, and completed in late September.

Avondale and Point Hayden Water Line Replacement Project ~ On Thursday, March 18th, this project will go out for public bidding. Bids will be received until April 14th. After bid review, the Board of Directors will issue a contract award to the lowest responsible bidder. Construction is scheduled to begin about May 3rd. A special newsletter will be sent to residents of this area with more details. Lakes Highway District is working with North Kootenai Water District for the resurfacing of many Avondale roads.



Rimrock Service Area ~ After the new water lines are constructed in Avondale and Point Hayden, the Springrock Booster Pump Station will be upgraded to provide higher water pressure to residents of Rimrock and Avondale! At last!!! For many of us this has been a long time coming. First come the water mains, then the increase in pressure. We have to do it in that order otherwise the old steel mains will likely have multiple failures due to increased pressure. Please, be patient. It is happening.



Other ~ Other projects on the 2010 schedule include a telemetry system installation at East Seasons Acres, and new pump controls at Hayden Pines for constant pressure. The telemetry system will relay pump and reservoir information to the District's main office control system ensuring a faster response time for any problems, and higher degree of reliability.





April 2010

2010, Issue 5

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, President/Director
Richard Fairhurst, Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

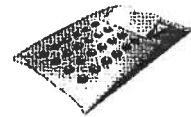
Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

From the Office:

Billing ~ Every year your water consumption is estimated during the winter months, typically beginning in November. As of this billing all meters have now been read (some systems were read and adjusted last month).

We try to estimate based on historical usage, however we can never be exact thus resulting in adjustments. If your account was 'over' or 'under' estimated during the winter, an adjustment appeared on your bill in the month your adjustment was made, either last month or this month.



Conservation Update:



Use irrigation water wisely. As our days warm up, we all look forward to gardens, lawns, and plants. Irrigation water usage is substantially higher than domestic water consumption. It may not seem like you are using a lot of water on your lawn, but you are using many times over the domestic usage.

Rain sensors ~ Those of you with automatic sprinkler systems may want to consider a rain sensor. This device keeps your system from turning on during rainy periods. Our District Manager has one and says it works great!

The District is once again offering drought resistant wild flower seeds to our customers at no charge. Seed packets are available at the District office.



Construction News:



Avondale and Point Hayden Water Line Replacement Project ~ Project bids were opened on April 14th. MDM Construction of Hayden is the low bidder. A total of 5 companies submitted bids on the project. The project will include replacement of the existing steel water main, new service laterals, new meter boxes and meters, and new fire hydrants.

Hayden Well #2 ~ The mechanical and electrical work is now complete. Finish work on the grounds and fencing are all that remain to complete the project.

GTE Improvements ~ Work on the GTE well and booster pump improvements is moving along ahead of schedule. The new well house is built and the old booster pump system has been removed. New booster pumps and electrical controls are now being installed.

Upcoming Projects ~

Mountain View Terrace ~ The looping of two dead end mains and the installation of 'end of the line' flush valves are scheduled to begin in late June.

East Seasons Acres ~ A new telemetry system will be installed later this summer for this system.

Twin Lakes ~ The old Echo Beach pump house will be replaced.

Rimrock ~ The Spring Rock Lane booster station improvements will increase pressures in the Avondale area as well as subdivisions along Lancaster Road.

Other ~ ITD is widening Hwy 95, from Wyoming to SH 53. A blank casing under Hwy 95 will be installed at Lancaster Road for a future water main installation.



From the Field:

Backflow Testing ~ Springtime is backflow testing time. Each year those of us with sprinkler systems are required by the Idaho Department of Environmental Quality (DEQ) to have your backflow device tested by a state certified backflow tester. Those results are sent in by the tester on your behalf to the District. This is a state wide requirement. Protection of our public water system is everybody's job. Please, get your system tested!

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!





May 2010

2010, Issue 6

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Richard Fairhurst, Director/Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.



From the Office:



Backflow Prevention Valve ~ Don't forget to have your Backflow Prevention Valve tested! This annual test is a State requirement. Please have your testing report sent to our office at PO Box 2290, Hayden ID 83835. Thank you for your help in this matter. It is very important to safeguard your water system.

From the Field:

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!

Conservation Update:

Summer is fast approaching and we are already seeing an increase in water consumption, most likely due to irrigation activities and home clean-up projects.

This is a reminder that the same conservation schedule will be implemented this year as last:

**Non-Irrigation hours are from Noon - 6:00 p.m. every day
for the months of June through September**



Those of you with automatic sprinkler systems may want to consider a rain sensor. This device keeps your system from turning on during rainy periods. Not only does it conserve water, but it saves you money!!

The grass & flower seeds were a hit! We just wanted to let you know that they're all gone.

Construction News:

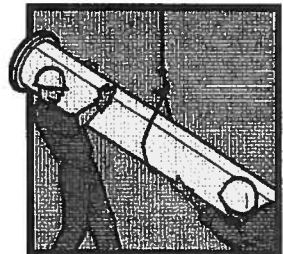


Avondale and Point Hayden Water Line Replacement Project ~ The long awaited Avondale water main replacement project started on May 3, 2010. Actual pipe installation will start on May 17th. During the course of construction, the District staff will do our best to update our web site (www.nkwsd.com) to keep you up to date on progress, service interruption, road work, and general construction mess associated with a project of this nature. It is our goal during this very difficult project to keep you informed to the best of our ability.

We all know what happens during service interruptions; colored water for a while. Please be aware that this will happen during the project. Our field crews will be flushing the lines to rid them of the color, but we are asking for you to help. By using your outside faucets, hoses, and sprinklers to "flush out" the color from your individual systems will help remedy the situation. This project will rid us of the steel pipe that causes this problem.

The initial phase of construction will begin at St. James and Kensington. After Kensington, Trafalgar and Avon Circle will be completed. Avondale Loop, Thames Court, and Brighton Court will follow. The Point Hayden area will be the final segment of the season. Next year we will bid the Friar Drive, Saxon Drive, Eastshore Drive, and Tudor Drive portion of the work.

The new main line will be installed first. It will be disinfected, pressure tested, and flushed. Then the service line crews will come in and attach your individual water services to the new mainline. New meter boxes, and new radio read water meters will be installed at this time. You will be individually notified (most often in person) during this service line portion of the project.



Be patient! Detours and traffic delays may occur. The road will remain open during construction, and school bus and emergency vehicles will have passage during construction. The contractor will keep as much existing asphalt surface in place as possible during the work. Paving the road will also be done in segments.

Other Projects ~ Other construction projects currently under way are the GTE well and pump house renovation, and construction of Lancaster Well #4. Both projects should finish up by the end of May.

Upcoming Projects ~

Rimrock ~ The Spring Rock Lane booster station modifications.

Twin Lakes ~ Replace the existing Echo Beach pump house with a new pump house.

Mountain View Terrace ~ The looping of two dead end mains and the installation of 'end of the line' flush valves.

East Seasons Acres ~ Installation of a new telemetry panel and a chlorine monitoring device.

Other ~ ITD is widening Hwy 95, from Wyoming to SH 53. A blank casing under Hwy 95 will be installed at Lancaster Road for a future water main installation.

NORTH KOOTENAI WATER DISTRICT

Visit us at: www.nkwsd.com



June 2010

2010, Issue 7

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Richard Fairhurst, Director/Secretary/Treasurer
Alanna Grimm, Director
Jack Hern, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Conservation Update:

Just a reminder about the non-irrigation hours in effect during the months of June—September.

Please, no irrigating from Noon to 6 p.m. everyday.

These are the times of maximum evaporation. Your lawn and gardens will receive the least amount of water during these times. Please use the resource responsibly!



From the Office:

Backflow Prevention Valves ~ Tests are due each year for backflow valves on automatic sprinkler systems. Licensed backflow testers are available locally to perform this service. If you don't have a regular tester please check our web site; a partial listing is available there. Remember, this is an Idaho Department of Environmental Quality (DEQ) requirement for all sprinkler systems. Help us to protect your health and safety by testing your backflow valve.

Water Right Adjudication Notices ~ Many of you have received an official looking notice from the Idaho Department of Water Resources (IDWR). This notice officially notifies you, the property owner, of your right to file for water rights on your water. If you don't have your own well, or have a withdrawal from a lake or river, the District will take care of this for you. NKWD will be doing all the work and paying the associated costs to secure the water rights that affect your drinking water system. Remember, if you do have your own well, contact IDWR at 762-2800 with your questions.

From the Field:

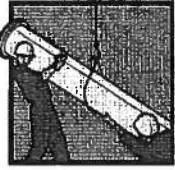


Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!



Construction News:



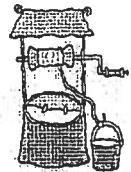
Avondale and Point Hayden Water Line Replacement Project ~ Construction of the new water main in the Avondale area is progressing. Main line crews are finished with Merman, Kensington, and Trafalgar. Service line installation crews are now beginning to install new services and meters in these areas. The installers will knock on your door to let you know when your service will be installed.

As quickly as the service crews finish, the road re-construction will commence. New sub-base material will be installed prior to new asphalt being installed.

Additional main line and service crews are being added so it won't be long before Avondale Loop, Brighton Court and Thames Court will be under construction.

GTE Pump Station Renovations ~ Work is nearly complete on the pump station and new booster pumps for the Hayden Pines/Grouse Meadows area system. This will encompass the new Walmart facility and the Cornerstone Business Park, as well as Grouse Meadows and Hayden Pines.

Hayden Well #2 ~ The new well and pump system is now online. This project is in the final stages of landscaping. District personnel are doing this work to save money on the project. The new well provides water for the Hillside, Forest Hills, Audubon Ridge, and the Loch Maree areas.



Lancaster Well #4 ~ This new well project is nearly complete. Final inspection and fire up of the pump are all that remains. This new well will serve as a backup for the Rimrock service area.

Hwy 95 at Lancaster Road ~ The Idaho Transportation Department (ITD) has discovered that their new storm drainage system in this intersection adversely impacts the District's water main. As a result, ACI, the excavation contractor, will be moving it. There will be a two day shut down while ACI relocates the 12" transmission main. You will be notified by a direct mailer regarding this outage.

Springrock Booster Station Upgrades ~ Plans are now under review by DEQ for the Springrock Booster Station. The upgrade to this station will increase the pressure on the northern portions of Avondale, something many of you have been patiently waiting for. Work should begin in August and completion is expected by October.

Mountain View Terrace Line Blow Offs ~ The week of June 19th will see the installation of new end of line flush valves at Mountain View Terrace. Flushing the dead end lines is the objective of these new devices. Corbin Road will also be looped.

Echo Beach Booster Pump Station ~ This fall we will build a new booster station at Echo Beach on the Twin Lakes system. Revisions and upgrades to the station include new pump controls and a new block building. The reservoir will have to be taken offline during the course of construction. It will be thoroughly cleaned when out of service.



NORTH KOOTENAI WATER DISTRICT

Visit us at: www.nkwsd.com





July 2010

2010, Issue 8

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Alanna Grimm, Director/Secretary/Treasurer
Jack Hern, Director
Shirley Stoller, Director/Vice-President
Vacant, Director

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Conservation Update:

Just a reminder about the non-irrigation hours in effect during the months of June—September.

Please, no irrigating from Noon to 6 p.m. everyday.

Watering during the hottest part of the day is inefficient, and is not a good use of the resource. Please water during the cool portion of the day. Evaporation is lower, and your grass and plants will have more water to grow and flourish.



From the Board Room:

Board Room Vacancy ~ Recently, one of our board members resigned for personal reasons. Richard Fairhurst has served the North Kootenai Water District board of directors since 2005. The Board would like to thank Dick for his service to the District and we wish him well.

A vacancy on the board will be filled by appointment by the current remaining board members. The appointee will serve the remainder of Mr. Fairhurst's term which runs until May of 2011. Those of you who are interested in serving as a board member may submit a letter of interest along with your resume to the North Kootenai Water District, PO Box 2290 Hayden ID 83835. Qualifications include being a resident within the District boundaries (some of you live in our service area, but are not within the District boundaries) and be registered to vote at this address.

The board of directors will review applicants, and will conduct interviews of interested candidates on August 19, 2010.

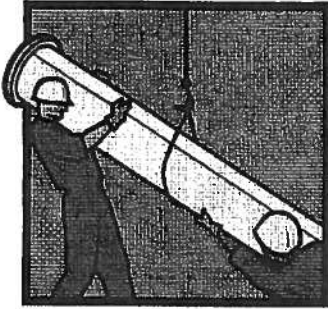
From the Field:

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!



Construction News:



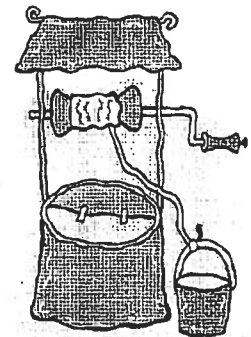
Avondale and Point Hayden Water Line Replacement Project ~ The water line replacement project is well underway in the Avondale area. New mains and services are currently complete on Kensington, Merman, and Trafalgar. Pavement is complete on Kensington and Merman. Avon Circle, Avondale Lane and Avondale Loop are the next sections to be completed. Point Hayden is scheduled in August.

GTE Pump Station Renovations ~ The new pumps are installed and on line. Water pressure and flow rates in the Grouse Meadows/Hayden Pines/Prairie Village areas have been enhanced.

Hayden Well #2 ~ This project is complete with the exception of exterior landscaping. District staff members are currently involved in finishing this up. The new well provides water to the Hillside Service Area, Forest Hills, and Honeysuckle Hills.

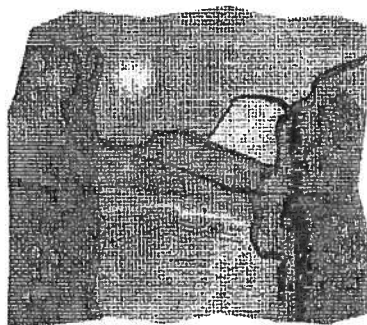
Lancaster Well #4 ~ This project is now complete. The new well will provide redundancy to the Rimrock Service Area.

Hwy 95 at Lancaster Road ~ Idaho Transportation Department (ITD) is doing a major widening project on Hwy 95. The District has installed future blank 24" casings under the new road sections for future water lines from our well field west of Hwy 95 on Lancaster Road. This planning effort was a result of the NKWD and ITD working and planning together on the project.



Springrock Booster Station Upgrades ~ The District will go out to public bid for this project at the end of July. When completed, water pressure and volume will be enhanced in the Lancaster Road areas, and northern portions of Avondale.

Mountain View Terrace Line Blow Offs ~ End of the line flushing points and looping the line on Corbin Road has temporarily been delayed. Work on this project is scheduled to get underway in the next two weeks.



Echo Beach Booster Pump Station ~ The old Echo Beach pump house will be replaced by a new building. This project is a fall of 2010 project on the Twin Lakes Service Area.

Arrow Point Community Association ~ Recently, APCA has experienced surface water influence in their wells. APCA has requested to connect to the NKWD water system that serves the Lakeshore Lodge from the Gozzer Ranch water system. APCA will pay all costs associated with the connection and the service. APCA is currently a wastewater service area for the District. Arrow Point wastewater is processed at the Gozzer Ranch wastewater treatment facility.



NORTH KOOTENAI WATER DISTRICT

Visit us at: www.nkwsd.com





August 2010

2010, Issue 9

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Alanna Grimm, Director/Secretary/Treasurer
Jack Hern, Director
Shirley Stoller, Director/Vice-President
Vacant, Director

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Conservation Update:

Just a reminder about the non-irrigation hours in effect during the months of June—September.

Please, no irrigating from Noon to 6 p.m. everyday.

This is the highest evaporation time. We can all do our part to be good stewards of the resource.



Construction Projects

Hayden Pines/Grouse Meadows ~ The Hayden Pines/Grouse Meadows Booster Pump improvements project is now complete. This project was largely funded by developer contributions from Wal-Mart, Honeysuckle Glade, Don Smock's commercial development on Prairie Avenue, Walgreen's and Discount Tire Company. These projects each contributed a pro rata share to the improvements of the pumping capacity that serves Hayden Pines/Grouse Meadows.

Avondale and Point Hayden Water Line Replacement Project ~ This is a large project encompassing the west side of Avondale Lake and Point Hayden. New main line and water services are complete on Merman, Kensington, Trafalgar, and Avon Circle. Paving is continuing as this newsletter is being written. Avondale Lane, Avondale Loop, Brighton Court, and Thames Court are currently under construction for main line. New water services will be installed beginning this week.

Point Hayden Update ~ Erosion controls and test holes have been completed. It is likely that the main line crew will begin later this month. The contractor has projected that all roads will be paved and complete by mid October.

Ongoing Projects ~ Installation of end of the line flush valves, sometimes called end of the line blow offs are being installed at Mountain View Terrace. We will also loop the Corbin Road line. District forces are doing the work to keep costs low.

New Projects ~ There are two new projects just in the bidding phase. Springrock Booster Station improvements (Rimrock Service Area) will open public bids on August 19th. Echo Beach Booster Station (Twin Lakes Service Area) will open public bids on August 31st. Both of these projects will take place this fall and finish in early December.

Twin Lakes "Lake Line" Replacement ~ District staff will replace the Channel Lane portion of the submerged lake line with new 2" poly pipe. The 1" service lines will be fusion welded to the 2" with valves at each service. This line is currently experiencing leaking fittings from time to time. Unfortunately, this sometimes occurs in winter under the ice.

From the Field:

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!





September 2010

2010, Issue 10

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Alanna Grimm, Director/Secretary/Treasurer
Jack Hern, Director
Jim Omerso, Director
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.



Conservation Tip:

If your shower fills a one-gallon bucket in less than 20 seconds, replace the showerhead with a water-efficient model.

Construction Projects

Avondale and Point Hayden Water Line Replacement Project ~ This project, as many of you know, has been very difficult and inconvenient for the residents in the Avondale and Point Hayden areas. The District realizes this and thanks you for your patience on this project.

Currently, mainline, services and road restoration have been completed in Phase 1 of this project. This includes Merman, Kensington, Trafalgar, and Avon Circle. Minor final details in this area have yet to be addressed. Phase 2 of the project is Avondale Loop, Brighton Court and Thames Court. Mainline is now complete and tested. Individual service lines and new meters are currently being installed. Pavement is scheduled for September for this section.

The Point Hayden mainline is nearly complete. By the time you read this newsletter, MDM will be installing new individual water service lines. Following the service lines will be paving. Anticipated completion of the entire project is late October.

Springrock Booster Pump Station ~ TML Construction of Hayden was the low bidder for this project. The District has awarded the contract, and TML broke ground on September 15th. The project completion date is January 15th, owing to the long manufacturing time for the standby generator, and the new booster pumps. These renovations will increase the water pressure in the Avondale area.

Echo Beach Pump Station ~ Lawrence Construction of Rathdrum was the low bidder for this project. The District Board awarded the contract at the September 2nd meeting. Construction of a new pump house, improved piping and electrical updates are scheduled to begin on September 23rd. Completion is anticipated for mid-December, 2010.

New Projects ~ The District has submitted an encroachment permit for the replacement of the existing 2" poly water line in Twin Lakes to the Idaho Department of Lands. After their review, and issuance of the permit, District staff will install a new 2" poly water line. The new line, fittings, and valves will be fusion welded together so that we don't have galvanized fittings to rust and corrode over time. Estimated installation is October 2010.

From the Field:

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!

Locates Are Free, Repairs Are Not!





October 2010

2010, Issue 11

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 762-0355 Fax

Visit us at: www.nkwsd.com

Board of Directors:

Tom Crimmins, Director/President
Alanna Grimm, Director/Secretary
Jack Hern, Director
Jim Omerso, Director/Treasurer
Shirley Stoller, Director/Vice-President

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer, Welch Comer Engineers
Mike Ormsby, District Attorney, K&L Gates

Questions? E-mail us at: contactus@nkwsd.com

Board Meetings ~ Meetings are held at our office on the 1st and 3rd Thursday of each month at 12:30 p.m.

Conservation Tip:

Put food coloring in your toilet tank. If it seeps in the toilet bowl without flushing, you have a leak. Fixing it can save up to 1,000 gallons a month.



Construction Projects:



Avondale and Point Hayden Water Line Replacement Project ~ The paving of Avondale Lane and Avondale Loop roads is certainly a big improvement. Driveways along these two roads will be addressed next. Point Hayden pavement is currently scheduled to begin October 14th. Paving should take three days. Driveways and final site restoration will follow immediately.

Residents in the work zones will be receiving a direct mail letter from the District. Prior to construction, Welch Comer Engineers and Surveyors took pictures of the front yards (back yards in the case of residents along Hole #6) of all the effected residences. This will aid our engineer and the contractor in restoration efforts. This is the final stage of the project. The letter will address anything that we might have missed during the course of construction and restoration. For example, many of you have sprinkler heads in the right of way. We have tried to address any and all repairs to damaged heads. If we missed one in your yard, let us know.

Springrock Booster Pump Station ~ Work is now well underway on the addition to the Springrock Booster Station. We had hoped to have this up and running before the Christmas holiday, but manufacturing delays for the new booster pumps and the standby generator have pushed this out to mid January. The new pressure zone will not go into effect until these new pumps go on line. We'll keep you informed.

Echo Beach Pump Station ~ On October 20th, the old Echo Beach Pump Station will be taken out of service. New underground piping, a new pump house, and improvements in the controls will be installed over the next two months.

Twin Lakes Service Area ~ With the change in the seasons comes the annual shut down of the lake line for Twin Lakes. This will have been completed by the time you receive this newsletter. Installation of the new lake line is still pending IDOL approval. The cold weather may put this off until next spring.

Mt. View Terrace ~ New pressure switches have been installed to accommodate higher distribution pressures in the system. This, coupled with installation of end of line blow offs, should make a difference in customer pressure and water quality.



Construction Projects, continued:



East Seasons Acres ~ A new telemetry panel will allow the District to remotely monitor the pump system, reservoir level and chlorine residual. This panel is similar to others in the District.

LP Project ~ The owner of the Louisiana Pacific property is working with the District to fund the installation of a new water line from our existing line at Mark's Marine going south down Government Way. This will connect to the private system on the LP property, which the owner will convey to the District. A short distance of pipeline will then be installed from Tumblestone's driveway (end of the current LP system) to the 7th Day Adventist Church. This is where NKWD has an existing water main. This connection will make a loop on the east side of Hwy 95 north of Lancaster Road.

From the Field:

Digging ~ Remember, you must **call 811** before digging for any reason, at any depth, at least 48 hours prior to digging. If you don't, and you hit a utility, you may be billed for the repairs!



Locates Are Free, Repairs Are Not!

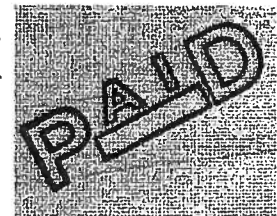


From The Office:

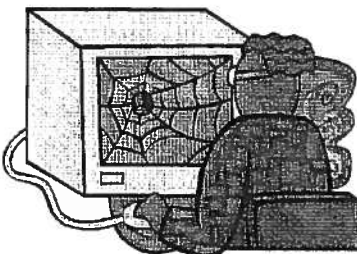
Sprinkler Blowouts ~ We heard from a lot of customers this year who experienced leaks in their sprinkler systems. To avoid this expensive problem next year, be sure to have your sprinkler system blown out. We have a list of landscape professionals on our website (www.nkwsd.com).

Estimating Monthly Reads ~ This may be the last month we will be reading meters. We will estimate during the winter and adjust accounts in the spring when we are able to read meters again. If you will be gone during the winter months, let the office know so we can set your monthly estimate at zero gallons. For those customers who have radio-read meters, the actual readings will continue through the winter months.

Payment Options ~ You have the option to have your account paid automatically from your checking account through ACH. You can now choose to have that payment withdrawn from your checking account on either the 1st working day of the month or the 10th of the month. Letters have been sent to customers signed up for ACH withdrawals. Please return form only if you wish to change your payment date.



We also offer free payment using our website. Just go to www.nkwsd.com and make a payment using your Visa or Mastercard credit or debit card.



It is our hope that these two payment options offer a fast and easier way for payments to be made by our customers. Not to mention that it is an extreme help to our small office staff.

www.nkwsd.com ~ Check out our website for a wealth of information. We list new projects, emergency outages, office closings, as well as useful forms like the Application for Water Service. You can also read the minutes from our Board of Directors meetings.