

GOUGH
SHANAHAN
JOHNSON
& WATERMAN
ATTORNEYS AT LAW PLLP

June 18, 2009

RECEIVED
JUN 19 2009
DEPARTMENT OF
WATER RESOURCES

via Federal Express

Mr. Gary Spackman
The Idaho Water Center
322 E. Front Street
Boise, ID 83720-0098

RE: North Kootenai Water District, No. 95-9244
GSJW File No. 70063-001

Dear Mr. Spackman:

Enclosed please find the following for filing with the Court in lieu of the status report:

- STIPULATED MOTION FOR DISMISSAL OF PROTEST, dated June 18, 2009;
- Settlement Agreement between the North Kootenai Water District and Sierra Club/Friend of the Aquifer in Regards to IDWR Application for Permit No. 95-9244 (fully executed); and
- Water System Conservation Plan for North Kootenai Water District, dated September 2007; and
- Resolution 2008-30.

A copy of the first page of the Stipulation has been included to be conformed and returned to our office in the enclosed self-addressed stamped envelope at your earliest convenience.

Gough, Shanahan, Johnson and Waterman, PLLP

Mr. Spackman
June 18, 2009
Page- 2 –

Thank you for your assistance in this matter. If you have any questions please do not hesitate to call.

Yours very truly,
GOUGH, SHANAHAN, JOHNSON & WATERMAN, PLLP

A handwritten signature in black ink, appearing to read "N. Primozic". The signature is fluid and cursive, with a large loop at the end.

Nancy Primozic
Legal Assistant to Peter G. Scott

Enclosures: as stated

cc: Richard Eichstedt (with enclosures)
Rachael Paschal Osborn (with enclosures)
Mike Galante (w/out enclosures)

1 Peter G. Scott
2 Gough, Shanahan, Johnson & Waterman
3 33 South Last Chance Gulch
4 Helena, MT 59601
5 (406) 442-8560

6 Attorneys for Applicant

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JUN 13 2009

DEPARTMENT OF
WATER RESOURCES

7
8 BEFORE THE DEPARTMENT OF WATER RESOURCES
9 FOR THE STATE OF IDAHO

10
11 IN THE MATTER OF APPLICATION
12 TO APPROPRIATE WATER, NO. 95-9244,
13 IN THE NAME OF THE NORTH
14 KOOTENAI WATER DISTRICT

}
}
} **STIPULATED MOTION FOR
DISMISSAL OF PROTEST**

15 COMES NOW, North Kootenai Water District, Applicant; and Friends of the Aquifer
16 and the Upper Columbia River Group of the Sierra Club, Protestants, (together the parties) by
17 and though their respective counsel of record with this STIPULATED MOTION FOR
18 DISMISSAL OF PROTEST.

19 The parties have negotiated and entered into a Settlement Agreement, a copy of which is
20 attached hereto. Pursuant to paragraphs C and D of the attached Settlement Agreement,
21 Protestants agree to, and move for, an order granting full and final dismissal of the protest filed
22 this matter upon issuance of a permit that conforms to the terms established, which Applicant
23 agrees to accept

24
25 NOW THEREFORE, subject to the provisions stated above, the parties jointly seek entry
26 of an order dismissing the protest filed in this matter.

27
28 ///

1 DATED this 18th day of June, 2009.

2 *w/ Electronic Approval*

3 By: *P. Osborn*
4 Rachael Paschal Osborn
5 Counsel for Protestants

6 By: *P. G. Scott*
7 Peter G. Scott
8 Counsel for Applicant

9 **CERTIFICATE OF SERVICE**

10 I HEREBY CERTIFY that on June 18, 2009, a true and correct copy
11 of the STIPULATED MOTION FOR DISMISSAL OF PROTEST was served on
12 the following:

13 Gary Spackman, Hearing Officer
14 IDWR-Northern Region
15 The Idaho Water Center
16 322 E. Front Street
17 Boise, Idaho 83720-0098
18 Facsimile: 208-287-6700

✓ Fed/Ex

19 Rachael Paschal Osborn
20 25 West Main, Suite 234
21 Spokane, WA 99201

✓ US Mail

22 Richard K. Eichstaedt
23 Center for Justice
24 35 W. Main Ste 300
25 Spokane, WA 99201

✓ US Mail

26 *P. G. Scott*
27 Peter G. Scott
28

**SETTLEMENT AGREEMENT BETWEEN THE NORTH KOOTENAI WATER
DISTRICT AND SIERRA CLUB/FRIENDS OF THE AQUIFER IN REGARDS TO
IDWR APPLICATION FOR PERMIT NO. 95-9244**

COPY

RECEIVED

JUN 19 2009

**DEPARTMENT OF
WATER RESOURCES**

This Settlement Agreement (Agreement) is entered into by and between Sierra Club/Friends of the Aquifer (Protestants) and the North Kootenai Water District (Applicant) to resolve disputes regarding IDWR Application for Permit No. 95-9244. In consideration of the mutual promises specified herein and by conditioning their performance under this Agreement upon satisfaction of the identified conditions precedent, and for other good and valuable consideration, the Parties agree as follows:

A. Scope of Agreement

This Agreement is intended to settle all matters related solely to the protest filed by Protestants of Applicant's water right application filed with IDWR (Permit No. 95-9244).

B. Actions of Applicants

Under the terms of this Agreement, Applicant agrees to undertake the following actions:

1. Adopt by resolution the 2008 Annual Review of the North Kootenai Water District Conservation Plan, a copy of which is attached hereto and is incorporated as part of this Settlement Agreement.
2. Submit the 2008 Annual Review and Resolution to IDWR for review.
3. Contribute \$4,500.00 to Washington Water Trust for the purpose of preparing a plan to purchase water rights for instream flow augmentation in the Spokane River to benefit water quality, native fish habitat, and other instream resources.
4. Contribute \$500.00, to be matched by the Protestants, toward funding a utility bill insert targeting North Idaho water consumers that discusses the benefits of water conservation for the Spokane River.
5. Establish and maintain a list for Protestants and other interested parties to be notified in advance of proposed changes to the North Kootenai Water District Conservation Plan, and any associated public process.
6. Agree to meet with Protestants as necessary to discuss compliance with the terms of the agreement.

C. Mutual Actions

The Parties agree to jointly file a notice of settlement, a copy of this Agreement, and a conditional motion to withdraw protest requesting that IDWR issue a water right that:

1. Contains a provision stating, "The diversion and use of water described in this order is subject to additional conditions and limitations agreed to by both Sierra Club/Protestants, and the water right holder under a separate agreement to which the Department is not a party and which is independently enforceable by a court of law;" and
2. Contains a provision stating, "This water right is issued subject to the continuing requirement for the water right holder to develop and implement a conservation plan under Section 3.2.1.3 of the Management Plan for the Rathdrum Prairie Ground Water Management Area (September 15, 2005)."
3. References this Agreement and includes a copy of this Agreement in the permit file.

The conditional motion to withdraw protest shall be conditioned upon the acceptance and inclusion of the terms set forth in that section by IDWR and approval of the 2008 Annual Review by IDWR. The Parties further agree not to protest or otherwise challenge the terms of IDWR's water right permit should the terms of that permit be issued in a manner consistent with this Agreement.

D. Actions of Protestants

In consideration for the actions identified above and upon the issuance of a final water right permit to Applicant that incorporates the terms set forth in section C, Protestants agree to a full and final dismissal of its protest.

E. Enforcement

The Parties agree that all terms of this Agreement may be enforceable, to the extent practicable, through an action by IDWR or by an enforcement action brought by Protestants in an Idaho Court seeking specific performance of the terms of this agreement, in which case the prevailing party shall be entitled to recover attorney fees, costs, and other expenses associated with an action brought to enforce the terms of the Agreement.

F. Non-Severability

The paragraphs of this Agreement are not severable. This Agreement is executed on the understanding that each paragraph is in consideration of the others.

G. Good Faith

The Parties to this Agreement agree to act in good faith and make all reasonable efforts to satisfy the conditions of the Agreement.

H. Successors and Assigns

This Agreement will be binding and will inure to the benefit of the Parties and their respective heirs, legal representatives, successors and permitted assigns, except as restricted by this Agreement.

I. Authorizations

All individuals executing this Agreement and other documents on behalf of the respective Parties certify and warrant that they have the capacity and have been duly authorized to so execute the documents on behalf of the Party so indicated.

J. Advice of Attorneys

Each Party represents and warrants that in executing this Agreement, each has been advised by or has had an opportunity to be advised by independent legal counsel. Each party has read the terms of this Agreement and understands their consequences. Each Party further acknowledges and represents that, in executing this Agreement, it has not relied on any inducements, promises or representations made by any other Party or its representatives, except as otherwise stated in this Agreement.

K. Entire Agreement and Amendment

With respect to the issues considered herein, this Agreement contains the entire understanding and agreement of the Parties. There have been no promises, representations, agreements, warranties or undertakings by any of the Parties, either oral or written, of any character or nature binding except as stated in this Agreement. This Agreement may be altered, amended or modified only by an instrument in writing, executed by the Parties to this Agreement and by no

other means. An amendment to the Agreement is binding only on the Parties that execute the Amendment. Each Party waives its right to claim, contest or assert that this Agreement was modified, cancelled, superseded or changed by any oral agreement, course of conduct, waiver, or estoppel.

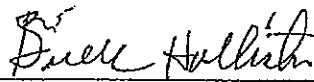
For Sierra Club



John Osborn, MD, Chair
For Friends of the Aquifer

Date:

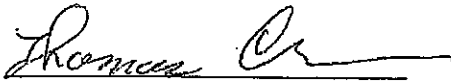
5/23
6/4/09



Buell Hollister, Board of Directors
For North Kootenai Water District

Date:

5/23/09



Thomas Crimmins
President

Date:

6/4/09

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JUN 19 2009

DEPARTMENT OF
WATER RESOURCES

RESOLUTION NO. 2008 - 20

A resolution of North Kootenai Water District, Kootenai County, Idaho accepting the 2008 annual review of its Water Conservation Plan; adopting goals and measures for its comprehensive Water Conservation Plan for the 2008/2009 fiscal year; providing for the effective date hereof and providing for other matters properly relating thereto

NORTH KOOTENAI WATER DISTRICT
Kootenai County, Idaho

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE NORTH KOOTENAI WATER DISTRICT, Kootenai County, Idaho, as follows:

WHEREAS, the North Kootenai Water District ("District") is a duly and properly formed water district under and by virtue of the constitution and laws of the State of Idaho;

WHEREAS, the District is governed by an elected Board of Directors ("Board");

WHEREAS, the Board of the District is committed to conservation and received and accepted a Water Conservation Plan ("Plan") by Resolution 2007-13, adopted on October 18, 2007;

WHEREAS, the Board, by Resolution No. 08-11, adopted on April 17, 2008 adopted criteria for the ranking of capital improvement projects planned by the District;

WHEREAS, the Board by Resolution No. 2008-15, adopted on May, 2008, adopted conservation measures including mandatory non-irrigation hours;

WHEREAS, the Board, by Resolution No. 2008-23, adopted on July 18, 2008, formed the Conservation Fund into which it deposits eight percent (8%) of the revenue generated by the water rates from Tier 4 of the water rate schedule;

WHEREAS, the Board has directed its Engineer and staff to develop a report evaluating the implementation of the Plan and the effect of the adoption of certain water conservation measures;

WHEREAS, this report has been completed and it also includes recommended goals and measures for fiscal year 2008/2009;

WHEREAS, the Board advertised a workshop to be held on November 6, 2008 and a public hearing on November 20, 2008 (notice attached hereto and incorporated herein by this reference as Exhibit "A");

WHEREAS, the workshop and public hearing were conducted and the Board has considered the input it received;

NOW, THEREFORE, IT IS HEREBY FURTHER RESOLVED as follows:

Section 1: RECEIPT AND ACCEPTANCE OF 2008 ANNUAL REVIEW

The Board hereby acknowledges and accepts the 2008 Annual Review prepared by its Engineers of the District Water Conservation Plan dated October, 2008 and attached hereto as Exhibit "B".

Section 2: ADOPTION OF RECOMMENDED GOALS AND MEASURES FOR FISCAL YEAR 2008/2009.

The Board hereby adopts and affirms the goals and measures contained within the 2008 Annual Review for fiscal year 2008/2009.

Section 3: SEVERABILITY

If any section, paragraph, clause, or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of each section, paragraph, clause, or provision shall in no manner affect any remaining provision of this Resolution.

Section 4: RATIFICATION

The Board hereby ratifies all acts taken by members of the Board and/or agents on behalf of the Board or District relative to the implementation of the Mitigation Fees, and the hearing process is hereby ratified and approved.

Section 5: EFFECTIVE DATE OF RESOLUTION

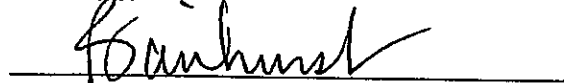
This Resolution shall take effect and be in force and effect from and after its passage and approval.

DATED this 4th day of December, 2008

NORTH KOOTENAI WATER DISTRICT


Chairman

ATTEST:


Secretary



I, the undersigned, Secretary of the North Kootenai Water District, Kootenai County, Idaho hereby certify that the foregoing Resolution is a full, true, and correct copy of a Resolution duly adopted at a regular meeting of the Board of Directors, duly and regularly held at a regular meeting place thereof on December 4, 2008, of which meeting all members of said Board had due notice and at which a majority thereof were present; and that at said meeting said Resolution was adopted by the following vote:

AYES, and in favor thereof, Board members: *Three*

NAYS, Boardmembers: *None*

ABSENT, Boardmembers: *Two*

ABSTAIN, Boardmembers: *None*

I further certify that I have carefully compared the same with the original Resolution on file and of record in my office; that said Resolution is a full, true, and correct copy of the original Resolution adopted at said meeting; and that said Resolution has not been amended, modified, or rescinded since the date of its adoption, and is now in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the official seal of the Board on December 4, 2008.

NORTH KOOTENAI WATER DISTRICT



[Signature]
Secretary

EXHIBIT "A"

NOTICE OF PUBLIC WORKSHOP AND
PUBLIC HEARING ON CONSERVATION PLAN
OF THE NORTH KOOTENAI WATER DISTRICT

The Board of Directors ("Board") of North Kootenai Water District ("District") accepted a Water System Conservation Plan ("Plan") in October of 2007. The Board has taken various actions to implement the Plan in 2007 and 2008. The Board is presently considering modifications to the Plan for calendar year 2009. It will also be receiving reports from its staff about the results obtained in 2008 from the conservation steps the District has already implemented.

The Board welcomes your comments and input. There will be both a workshop conducted and a public hearing held which you are invited to attend:

Workshop

Date: Thursday, November 6, 2008
Time: 12:30 p.m.
Place: District Office
North Kootenai Water District
1841 West Hayden Ave.
Hayden, ID 83835

Public Hearing

Date: Thursday, November 20, 2008
Time: 12:30 p.m.
Place: District Office
North Kootenai Water District
1841 West Hayden Ave.
Hayden, ID 83835

If you are unable to attend either of these sessions, but have input that you would like to provide to the Board and District, please feel free to provide that comment by mail or electronically to:

Board of Directors
North Kootenai Water District
P.O. Box 2290
Hayden, ID 83835
mikeg@nkwsd.com

Thank you for your attention to the water conservation measures enacted this year. We appreciate the efforts that many are taking to protect and preserve one of our regions most important resources, our water.

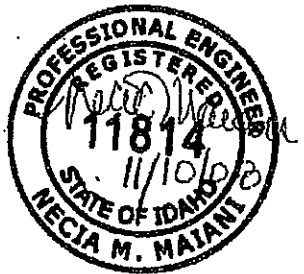
Exhibit "B"

2008 ANNUAL REVIEW

NORTH KOOTENAI WATER DISTRICT
WATER CONSERVATION PLAN

SUBMITTED TO THE:

NORTH KOOTENAI WATER DISTRICT



NOVEMBER, 2008

PREPARED BY:

WELCH-COMER 
ENGINEERS & SURVEYORS

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

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Executive Summary

In the Fiscal Year 2007/2008¹, North Kootenai Water District made significant progress in achieving the goals that they established within their 2007 Water System Conservation Plan.

One major goal set for fiscal year 2007/2008 was to revise the District's methods for reading meters in order to more accurately track consumption and production to establish baseline consumption and production for the District. This data would allow for the evaluation of the effectiveness of the conservation measures implemented.

The District provided consumption and production data back to 2000. The data was reviewed and audited with District staff and adjusted where appropriate to account for lube meters, transfer pumps, etc. The data was used to establish baseline consumption for the year 2006, when the conservation program was first initiated, of 1128 gpd per connection. This baseline represents the average daily demand for the peak billing months of July through September.

After review of the historic consumption data, the District chose to set a consumption-side goal to reduce this average daily demand per connection for the peak months of July through September 25% (from the baseline) to 880 gpd per connection by the year 2013. It should be noted that the District achieved a 19% reduction from the baseline between 2006 and 2008 through the implementation of the conservation measures. The District attributes much of this success to an aggressive, conservation based, rate structure established in 2006 with an increase in 2008.

On the production side, the data provided by the District for Fiscal Year 2007/2008 indicated a system loss (District-wide) of 196.38 million gallons or 26% of the total production. This was up from the system loss tracked in Fiscal Year 2006/2007 (108.45 million gallons or 14.7% of the total production). This dramatic increase in loss (88 million gallons in one year) may be due to a major increase in system leakage. However, it is more likely a result of inaccurate data. In either case, the District set a goal to reduce the loss for its largest four systems (Rimrock, Hillside, Twin Lakes and Chilco) to 10% within the next 10 years.

The District is working toward achieving this goal and in October of 2008 completed a leak detection program that identified an estimated 84 gpm or potentially 44 million gallons (6% of the District-wide loss) per year on the Rimrock and Hillside system. The District is working to repair these leaks in the Fall of 2008 and in 2009. The leak

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

detection program will be continued in the Spring of 2009 at the Twin Lakes and Chilco water systems.

1. INTRODUCTION

The following is the first annual review of North Kootenai Water District's September 2007, "Water System Conservation Plan," prepared by Welch Comer and Associates and as established by the District Board through three resolutions adopted in April, May, and July of 2008 (Resolution 2008-11, 2008-15, and 2008-23). A copy of each resolution is provided in Appendices A through C, respectively. This annual review satisfies Section 5c of the District's Resolution 2008-15.

The purpose of this annual review is to determine the effectiveness of conservation measures implemented by the District in the preceding year. Additionally, through this annual review 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 the fiscal year 2008/2009.

2. FISCAL YEAR 2007/2008 GOALS

The following goals were identified for year 2007/2008 within the Conservation Plan:

- Goal #1: Meter Upgrade and Improvement Program
- Goal #2: Conservation Resolution
- Goal #3: Conservation Funding

The following is the status of each of these goals:

Goal #1:

On May 1, 2008, NKWD adopted Resolution 2008-15 implementing various provisions of the Conservation Plan. A copy is attached hereto as Appendix B. Section 6, authorizes the staff and District Engineer to collect information for the purpose of developing effective policies to implement the resolution including but not limited to installation and upgrading the metering system per the listed conservation measures.

In addition to revising the District's methods for meter reading to improve data accuracy, the District has also installed new source meters at its Twin Lakes, and Chilco water systems.

Goal #2:

As with Goal #1, NKWD adopted Resolution 2008-15 which implements the following provisions of this Goal:

Section 1: Mandatory Non-Irrigation Hours beginning June 1, 2008. Irrigation may not occur between 12:00 pm and 6:00 pm daily.

Goal #3:

In July of 2008, the Board adopted Resolution 2008-23 which creates a "Conservation Fund" and commits the transfer of 8% of the revenue generated by Tier 4, the highest cost tier for consumption greater than 30,000 gallons per month, water rates for the purposes of financing conservation efforts such as:

1. Education
2. Rebates for conservation devices
3. Leak detection and repair
4. Other conservation related items

2.1. CURRENT CONSERVATION MEASURES

The following is a summary of the conservation measures adopted through the above referenced Resolutions which support the above goals.

1. Mandatory Non-Irrigation Hours: As described under Goal #2 above.
2. Rebate Program: NKWD 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
3. New Subdivision Requirements: All new developments must incorporate moisture and/or rain sensors into their residential irrigation systems.
4. Education: NKWD currently sends out newsletters with every bill and water conservation measures are included in each newsletter. NKWD will continue to communicate and educate its customers on the importance of conservation.

These measures were implemented June 1, 2008. Since implementation, these measures have had the following impact:

1. NKWD has provided rebates to eight customers.
2. One new residential subdivision and two commercial developments have been submitted for review and approval. These subdivisions will add a total of approximately eight connections to the District. Each one will be required to incorporate moisture and rain sensors into their irrigation systems.
3. The District mailed out several conservation related newsletters and brochures in 2008. A copy of each is provided in Appendix D.

In addition to the above, in 2007/2008 the District completed the following conservation related improvements.

2.1.1. LEAK DETECTION AND REPAIR

The District completed numerous leak repairs in 2007/2008. The District estimates \$40,000 in material was expended in addition to unquantified District labor costs. The majority of the leak repairs occurred on the District's Hillside water system (service lines) and Rimrock water system (main line).

In October of 2008, the District hired a leak detection specialist to review the Hillside and Rimrock water systems. The following is a brief summary of the findings (also refer to leak detection raw data in Appendix E):

Water System	Leak on Main Line	Leak on Service Line
Hillside	1 ¹	11
Rimrock	3 ²	2
Total	4	13

1. Leaking hydrant.
2. Includes one leaking hydrant which was repaired.

The associated estimated flow for the leaks identified was 58.5 gpm on the Hillside system (30.75 million gallons per year) and 25.5 gpm (13.4 million gallons per year) on the Rimrock system. Reviewing the total District-wide production for 2007/2008 of 750 million gallons (See Section 2.5) and assuming these leaks have been active a full year, these leaks potentially represent approximately 6% of the total production for the year. The District intends to repair each of the leaks identified in the fall and winter of 2008.

2.2. WATER RATES

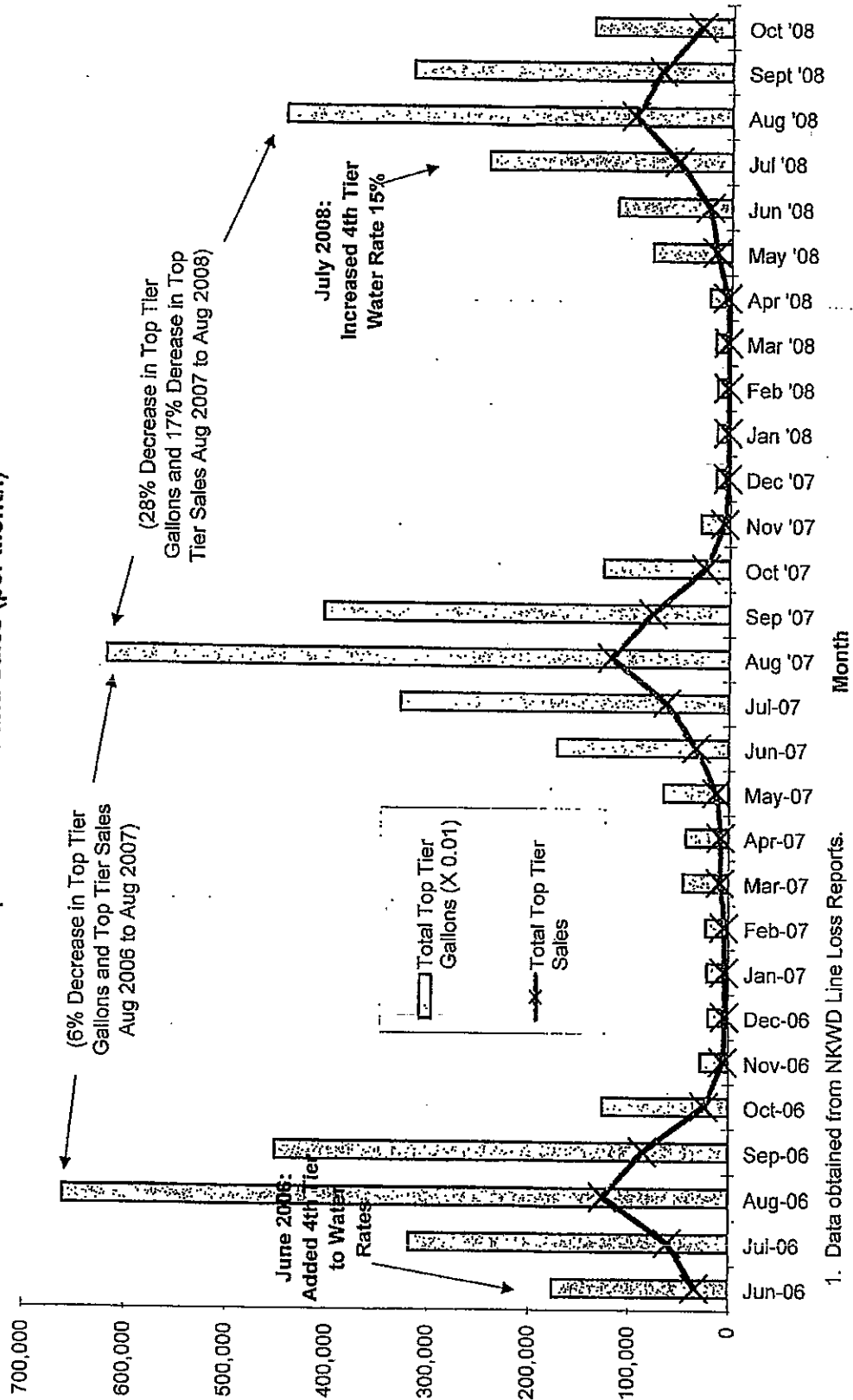
In addition to the above measures, the District instituted another rate increase in June of 2008. The estimated increase in the average rate is 12% from the last rate adjustment in May of 2006.

The District has four water rate tiers for the per gallon consumption charge. With conservation in mind, the District increased the rate for the lower two tiers (0 to 5,000 gallons and 5,001 to 15,000 gallons per month) 10%, while the District increased the rate for the top two tiers² (15,000 to 30,000 and 30,000 gallons per month and above) 15%.

Figure 1 (on the following page) compares the top tier gallons consumed and the monthly revenue between 2006 and 2008.

² It should be noted that the top tier, Tier 4 (for monthly consumption above 30,000 gallons), was created with the rate adjustment in May of 2006.

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



1. Data obtained from NKWD Line Loss Reports.

As shown in Figure 1, there was a 6% decrease in both the top tier consumption and sales for the peak month (August) between 2006 and 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 2007 and 2008. These were significant decreases in consumption for users in the top tier. The following table (Table 1) summarizes the impact of these decreases with respect to the total consumption savings for the District between 2006/2007 and 2007/2008.

Table 1: Top Tier Consumption versus Total System Consumption and Total Annual Savings

	Top Tier (gallons)	Total Consumption (gallons)	Top Tier as % of Total Consumption
October '06 through September '07	190,281,481	630,572,615	30%
October '07 through September '08	144,221,700	553,808,658	26%
Total Savings from '06/'07 (gallons)	46,059,781	76,763,957	60%
% Savings from '06/'07 ¹	-24%	-12%	

1. Note that these numbers reflect total annual savings, not just savings for the month of August as was shown in Figure 1.

As shown in 2006/2007 and 2007/2008, the top tier made up 26% to 30% of the total annual consumption. The table also shows that of the 76.76 million gallon decrease in consumption between these two periods, 60% of the reduction occurred in the top tier. This points to dramatic conservation in the top tier of use and an apparent correlation between the increase in water rates and decrease in consumption.

However, lower temperatures during the summer of 2008 may have contributed to some of these savings. This temperature impact will be discussed later in the report.

2.3. CONSUMPTION

The following section provides an analysis of the total water sold in the peak months for each water system.

Figure 2 (on the following page) provides the average daily consumption District-wide per connection for the July, August and September billing months³ between 2001 and

³ Meters are read approximately half-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.

2008. The figure provides a comparison of the average demand per connection to the average daily temperature and the total precipitation for these three months⁴.

Reviewing Figure 2, there appears to be a strong correlation between the increase in water rates (years 2006 and 2008) and 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 between 2006 and 2007 of 5% with an additional decrease of 15% between 2007 to 2008 (overall a 19% decrease has occurred since 2006), it appears that the District's more aggressive approach to conservation over the last two years⁵ has been a success.

The highest average daily consumption for the 8 year period occurred in the year with the highest 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. The purpose of evaluating the temperature-demand relationship was to be able to estimate the impact of temperature on demand so that the conservation measure impact on demand could be exclusively evaluated.

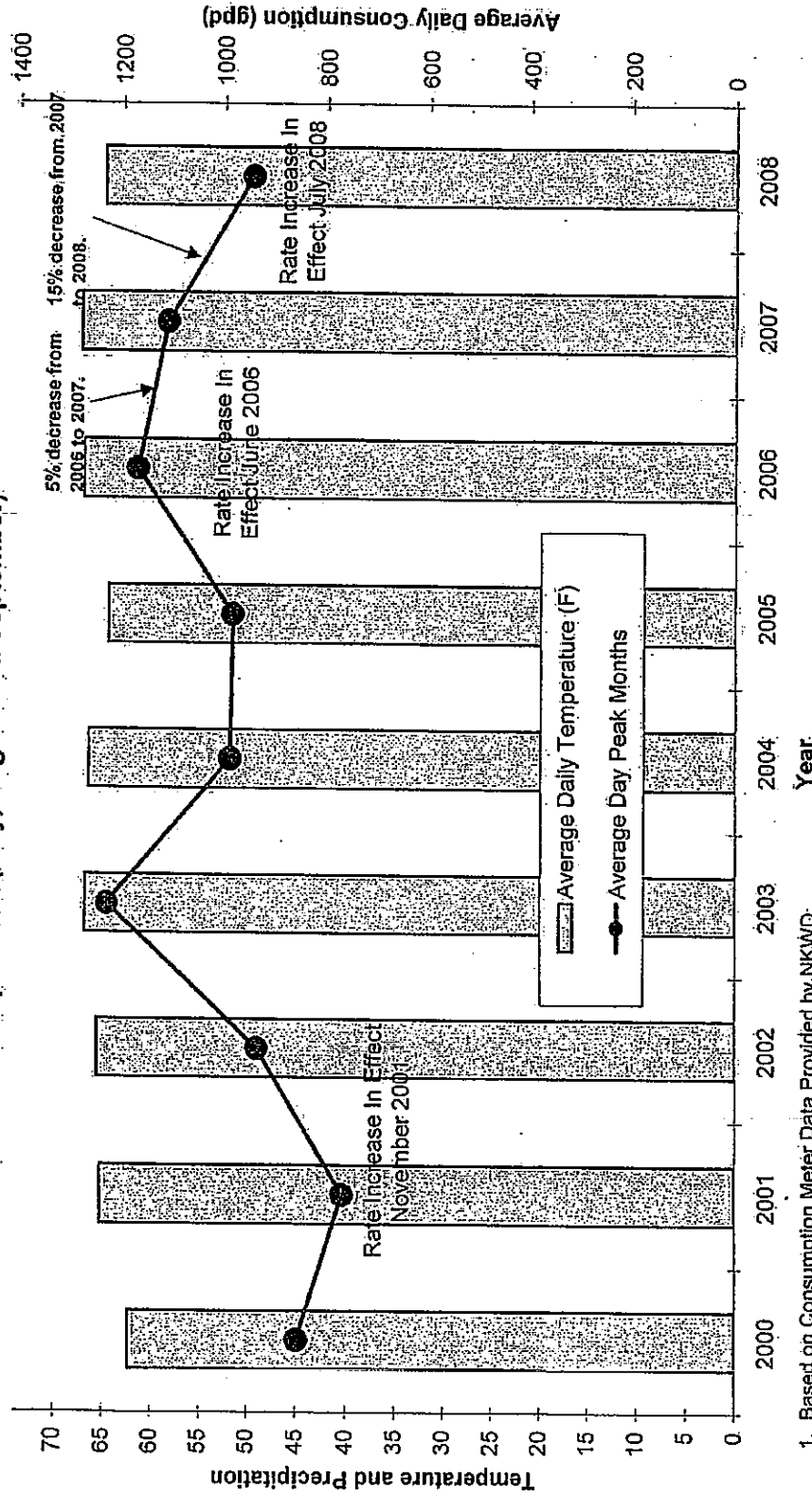
⁴ There are two reasons for focusing on the average daily consumption for the peak months (July through September) as listed below:

1. Meters are not read through the winter months. Meter reading typically starts in March or April and in these months adjustments are made to the estimated winter billings. 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 semiannual 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 NIKWD;
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.

Figure 3:
Temperature Vs. Average Daily Demand (July-Sept)

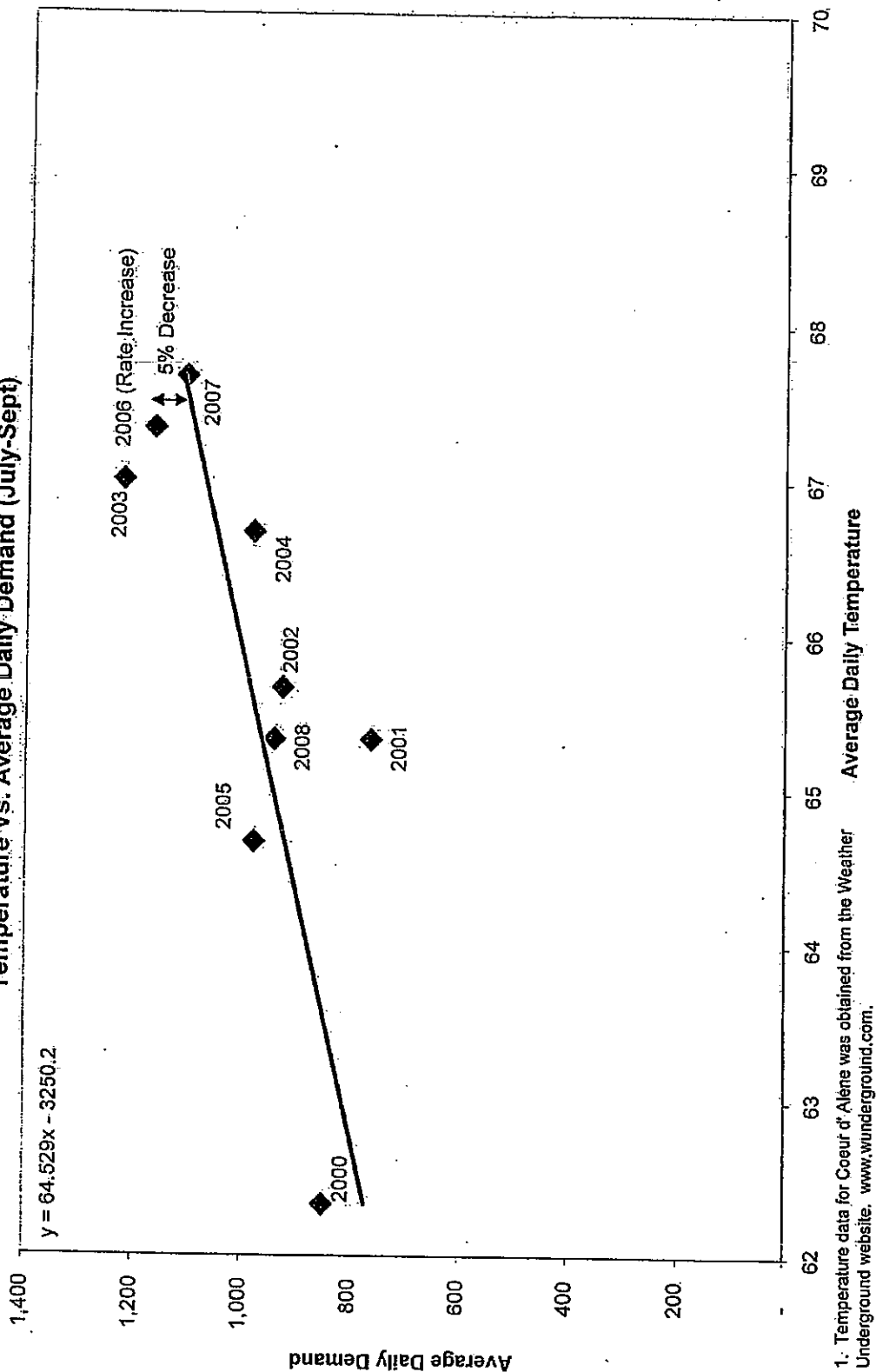


Figure 3 demonstrates the function of demand based on temperature using the data provided between 2000 and 2008. The function of demand to temperature based on the available data is described as:

$$Y = 64.53 X - 3250.2$$

Thus, using the data provided, it is predicted that in a year where the average daily temperature is 66 degrees F, the estimated average daily demand would be 1009 gpd/connection. This function will be reviewed and adjusted annually as more data becomes available.

Another important observation in Figure 3 is the apparent impact of the rate increase. It is seen that between 2006 and 2007, the temperature increased just slightly, however the average daily demand decreased. The decrease was 5%. It is believed that this decrease can be fully attributed to conservation measures and the water rate increase that was implemented in 2006. In later years, we would expect that when the average daily demand for a certain year falls below the trend line, this would be an indication of conservation related savings.

Figure 4 provides the average daily consumption per connection for the peak month for each year from 2001 through 2008 for each water system.

This graphic compares the average daily consumption per connection for each system to the District-wide average (1,237 gallons per day in 2008) as well as to the conservation guideline (domestic use and irrigation) that was established in part by Kootenai Environmental Alliance for a typical 0.5 acre lot (1,250 gallons per day).

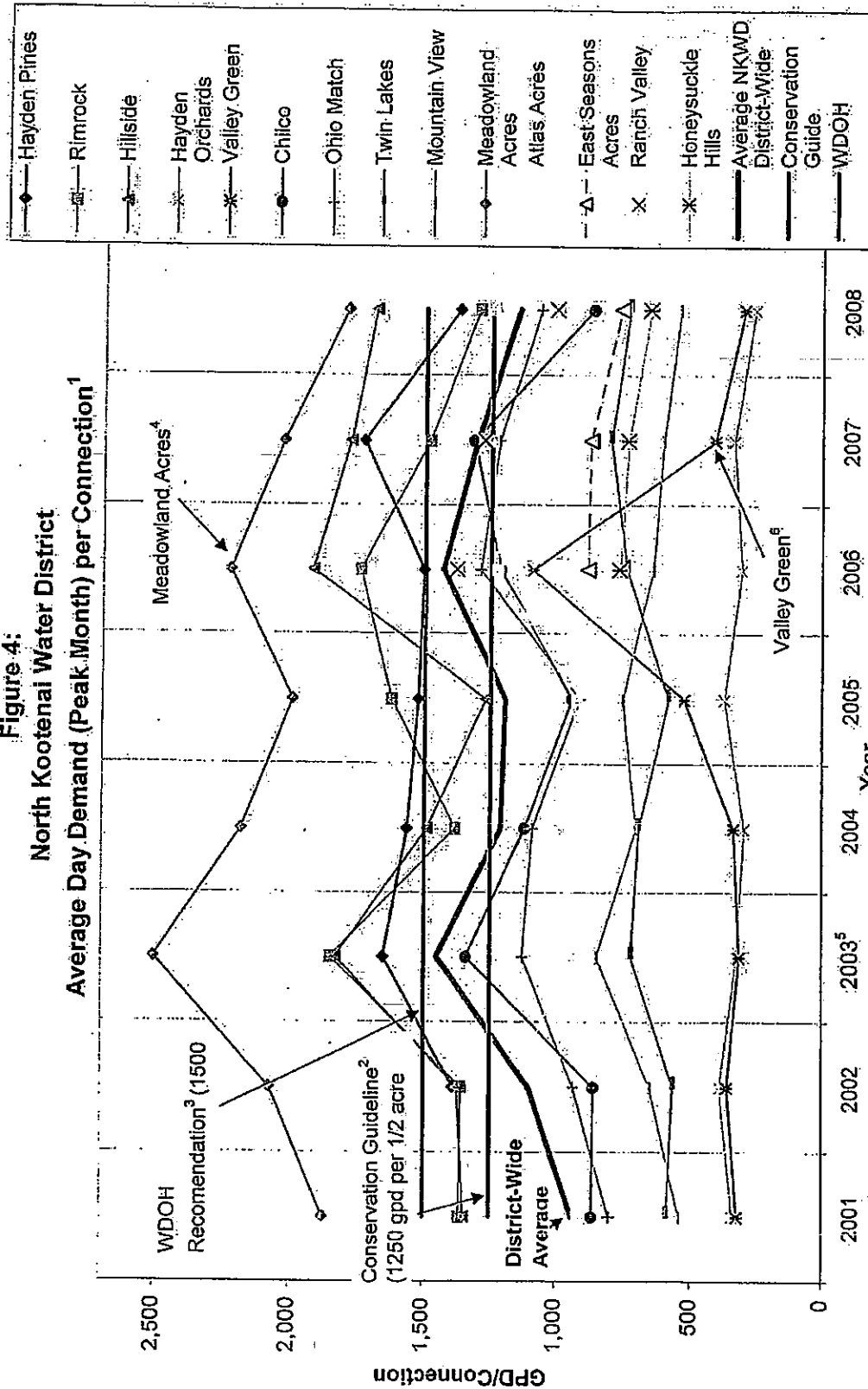
As shown, the District-wide average has closely followed the conservation guideline over the last 8 years. It should be noted that the water systems that are routinely above this average, including Rimrock (1,381 gallons per day in 2008) and Meadowland Acres (1,793 gallons per day in 2008), have much larger lots than the average. Each lot in Meadowland Acres is approximately 5 acres in size.

The Hayden Pines water system (1,372 gallons per day in 2008) 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.

The Hillside water system (2,018 gallons per day in 2008) has several large homes with extensively landscaped yards.

It can be concluded for all of the District's systems, as shown in Figure 3, that the average daily water consumption for the peak month has declined since 2006.

Figure 4:
North Kootenai Water District
Average Day Demand (Peak Month) 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 western 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 (see Exhibit 2.5 B for comparison of summer temperature and precipitation).
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.

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

average day peak month

WELCH~COMER

09/04/2007

2.4. PRODUCTION AND SYSTEM LOSS

The #1 goal for fiscal year 2007/2008 as stated within the 2007 Conservation Plan was to "establish a metering program to accurately track consumption and production." This goal was described as "necessary to establish the baseline consumption and production data needed to properly evaluate the effectiveness of the subsequent conservation efforts."

In the fiscal year 2007/2008, the District continued reading production meters on a weekly basis, but modified the date of the readings to coincide with that of the monthly consumption meter reads.

Additionally, at the end of the fiscal year 2007/2008, the District and Welch Comer completed a detailed audit of how the meter data was being recorded within the monthly line loss reports. Extraneous data was eliminated and the meter readings for the District's line shaft turbine lube meters and system master meters were checked to ensure they were tied to the correct source and correctly accounted for with respect to each system's ultimate production. Additionally, the master meter data was reviewed with respect to the corresponding pump's known output to determine if the meters were registering accurately.

The following table (Table 2) provides a comparison of the total water produced from the October billing month of 2006 through the September billing month of 2007 as well as for the Fiscal Year 2007/2008. In 2006/2007 the District produced 739.02 million gallons and recorded a loss of approximately 14.7% (108.45 million gallons). The production increased in 2007/2008 by 11 million gallons to 750.19 million gallons. The system loss for 2007/2008 also increased significantly by 88 million gallons or 26% of the total production. This is a huge and unanticipated jump in the system loss, which likely points to inaccurate data, and is further explained below.

Reviewing the detailed data for the District (per water system) the line losses appear to be consistent. However, for a few systems, the data still appears to be inaccurate. In 2007/2008 data, two systems indicated negative line loss, which is impossible and also inconsistent with the previous year. These included the Chilco water system (-2%) and the East Seasons Acres water system (-12%). Additionally, some systems indicate extremely high system loss in 2007/2008 inconsistent with the 2006/2007 data for these same systems. These systems included the Rimrock system (41%) and Atlas Acres (54%).

Based on the above, the District still has some meter inaccuracies that need to be resolved. However, the current, audited, data indicates a significant improvement from the data available at the time of development of the 2007 Conservation Plan.

NKWD Conservation Annual Review

Table 2: Fiscal Year Line Loss Summary for 2006/2007 and 2007/2008

2006/2007 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	232,936,000	212,853,697	20,082,303	8.6%	975
Hillside/Honeysuckle Hills	256,739,600	167,864,900	88,854,700	34.6%	1,004
Twin Lakes	72,722,200	80,456,000	-7,733,800	-10.6%	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	86,265,600	93,807,300	-7,541,700	-8.7%	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	18,904,982	17,256,718	1,648,264	8.7%	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	739,023,318	630,572,615	108,450,703	14.7%	3,522

2007/2008 Fiscal Year Summary					
System	Production (gallons)	Consumption (gallons)	Line Loss (gallons)	Percent Loss	Average Connections
Rimrock	300,445,004	176,916,695	123,528,309	41.1%	993
Hillside/Honeysuckle Hills	211,307,500	168,512,983	42,794,517	20.3%	1,009
Twin Lakes	79,539,900	86,084,120	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	92,747,700	83,610,219	9,137,481	9.9%	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	16,052,700	13,659,239	2,393,461	14.9%	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	3,450,300	3,429,800	20,500	0.6%	17
District-wide Total	750,192,714	553,808,658	196,384,056	26.2%	3,605

Fiscal Year	Total Gallons Sold	Average Billed Connections
2006/2007	630,572,615	3,522
2007/2008	553,808,658	3,605
Percent Reduction	12.2%	-2.4%
Percent Water Savings:		12.2%
Gallons Saved:		76,763,957

2.5. CONCLUSIONS

Consumption

Based on the data provided by the District with respect to consumption and production for 2007 and 2008, it appears that the conservation measures that the District began to implement (even if informally) in 2006 and 2007 are taking affect. However, 2008 was a wetter, cooler year than the average, and we do predict that some of this reduction is attributable to the climate.

In any case, the savings between 2007 and 2008 for just the billing months of July, August and September can be quantified as follows. The total water sold in 2007 for these three months was approximately 348.63 million gallons. The total water sold for these months in 2008 was approximately 304.61 million gallons. The total water consumed, therefore, decreased by 12.6%. The average billed connections increased by 0.9% from July through September of 2007 to July through September of 2008. Based on these figures, a water savings of 13.6%, or approximately 47.41 million gallons, was realized for these three months.

For the fiscal year, the District sold an estimated 630.57 million gallons from October 2006 through September 2007 and an estimated 553.81 million gallons from October 2007 through September 2008. The average connections billed in the 2006/2007 fiscal year was 3,522 and 3,605 in the 2007/2008 fiscal year. Thus the estimated annual savings between the two periods was 14.5% or 91.62 million gallons. Per customer, the savings between the two periods was 16.7%.

With respect to consumption, the District has already demonstrated a substantial conservation savings of 16.7% per connection for the year. Considering the impact of temperature and precipitation and considering that it may be another 2 years before the water rates are adjusted again, it is not likely that the District can maintain an annual savings of 16.7% per year for the next five years.

After reviewing the average daily demand per connection for the peak months in 2006 (when the conservation program officially began), the District is proposing to set a goal to decrease this average a total of 25% by 2013. In order to do this, the District would need to achieve a 5.5% per year reduction from the average for the previous 3 years. (The purpose of figuring this three year average is to reduce the impacts of temperature, which as shown by Figure 3 is predicted to be a major influence on consumption.)

The three year average for the peak months of 2006 through 2008 is 1,070. Therefore, in 2009, the average daily demand (District-wide) for the peak months (July through September) would need to be 1011 gpd to meet the proposed goal. If the proposed goal is met every year for the next 5 years, the estimated average daily demand for the peak months would be reduced to 880 gpd per connection by 2013.

Production and System Loss

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

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

The most obvious inaccuracies were seen for the fiscal year 2007/2008 on the Rimrock, Chilco, Atlas Acres and East Seasons Acres. Thus we recommend that the District focus on correcting these inaccuracies for these systems in 2008/2009.

It should be noted here that based on the Table 1 information, although consumption decreased 14.5% (16.7% per connection) between 2006/2007 and 2007/2008, production increased 1.5% in the same time frame (from 739.02 million to 750.19 million). Considering the additional connections added during this time frame, the production did decrease approximately 1% per connection.

This discrepancy in the annual consumption (16.7%) versus production (1%) conservation savings may be another indication of the inaccuracy of the meter data. Additionally, it may point to increased system leakage.

Reviewing table 1 with respect to system loss, the estimated District-wide line loss for 2007/2008 was 26% or 196 million gallons. Based on the leak detection survey conducted in Fall of 2008 (summarized in Section 2.1.1) and the identification of an estimated 84.5 gpm of leakage (44 million gallons over a year) on just two of the District's water systems, it can be expected that a large portion of the system loss may be attributed to leakage.

Whether the estimated line loss is relative to meter/data inaccuracies or system leakage, based on the data presented above, the District must address conservation on the production side (reduction of system loss). Therefore, it is recommended that the District consider setting a goal of achieving a maximum 10% line loss in the largest four water systems (Rimrock, Hillside, Twin Lakes, and Chilco) within the next 10 years based on a three year rolling average. These four systems are targeted as they have the largest distribution networks, highest number of leak repairs and highest production when compared to the system loss. 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 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 2008/2009

The following goals are recommended for implementation in the Fiscal year 2008/2009:

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. This represents an average reduction in the target value of approximately 4% per year. The District will continue to evaluate the effectiveness of its program annually, and shall report results on a per capita basis using a 3-year rolling average designed to minimize the influence of temperature variation.

Supporting Measures:

The District will continue with the currently implemented conservation measures. Additionally, the District will be adding the following conservation measures in the Fiscal Year 2008/2009:

1. **Public Information and Education:** North Kootenai Water District is working with Trout Unlimited to sponsor 3 signs promoting healthy trout habitat. These signs will be located at public access points to the Spokane River in Idaho. The estimated funding for this measure is \$3,000.

Goal #2: Reduce or eliminate meter inaccuracies identified for the following water systems in the year 2007/2008:

1. Rimrock
2. Chilco
3. Atlas Acres
4. East Seasons 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)⁶ within 10 years (by the end of 2018) on the following systems:

1. Hillside
2. Rimrock
3. Twin Lakes
4. Chilco

⁶ This goal will be met when the average line loss for three consecutive years is equivalent to 10% of the total water produced.

These systems have been selected because they have the largest lineal footage of pipe, largest number of leak repairs annually, and highest production with respect to system loss.

Supporting Measures

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

1. The District completed leak detection on the Hillside and Rimrock water systems in the October of 2008. The District will complete repairs to the leaks detected in the Fall of 2008. The District also plans to complete leak detection on the Twin Lakes and Chilco water systems in the Spring of 2009.
2. The District will continue toward the completion of their Fire Hydrant Lock Program. The District estimates that about 40% of the hydrants within the District still need to be locked. Until that time, the hydrants will continue to be a source of "loss" when used without permission for construction or other purposes.
3. The District has included significant waterline replacement projects for each of the four systems listed above within their 10-year CIP.

Appendix A

RESOLUTION NO. 08- 11

A RESOLUTION OF NORTH KOOTENAI WATER DISTRICT, OF KOOTENAI COUNTY, IDAHO, ADOPTING CRITERIA FOR THE RANKING OF CAPITAL IMPROVEMENT PROJECTS PLANNED BY THE DISTRICT; AND PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO

**NORTH KOOTENAI WATER DISTRICT
Kootenai County, Idaho**

BE IT RESOLVED BY THE Board of Directors of North Kootenai Water District, of Kootenai County, Idaho (the "District") as follows:

WHEREAS, North Kootenai Water District, of Kootenai County, Idaho (the "District") is a duly and properly formed water district under and by virtue of the constitution and laws of the State of Idaho; and

WHEREAS, the District is governed by an elected Board of Directors (the "Board"); and

WHEREAS, the Board of Directors is responsible for the management of all District resources which include the funds of the District and other valuable environmental resources; and the District supports the management of its water resources through appropriate conservation measures; and

WHEREAS, the District supports the evaluation of necessity and need for all capital improvement projects on a uniform and consistent basis and has developed a method for ranking capital improvement projects that assigns a scale of importance to such capital projects;

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Board of Directors of the District as follows:

Section 1: ESTABLISHMENT OF CRITERIA FOR THE RANKING OF PROJECTS IN THE CAPITAL IMPROVEMENT PLAN

All capital improvements proposed for inclusion in the District's Capital Improvement Plan shall be ranked according to the following numerical scale of importance:

1. Health and Safety

2. System Reliability
3. System Performance
4. Water Conservation
5. Opportunity Cost
6. Public Right of Way Required Relocations

In preparing the schedule for construction of the projects included in the Capital Improvement Plan, the District shall take the assigned ranking of each project into consideration. Project rankings may be amended from time to time or as deemed appropriate by the Board.

Section 2: SEVERABILITY

If any section, paragraph, clause, or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of each section, paragraph, clause, or provision shall in no manner affect any remaining provision of this Resolution.

Section 3: RATIFICATION

The Board hereby ratifies all acts taken by members of the Board and/or agents on behalf of the Board or District relative to this potential annexation and the hearing process is hereby ratified and approved.

Section 4: EFFECTIVE DATE

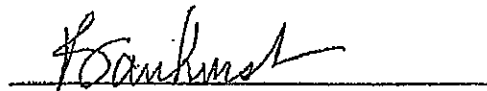
This Resolution shall become and is effective as of the date of its adoption.

DATED this 17th day of April, 2008.

NORTH KOOTENAI WATER DISTRICT,
Kootenai County, Idaho


Chairman, Board of Directors

ATTEST:


District Secretary

(SEAL)

I, the undersigned, Secretary of the Board of Directors of North Kootenai Water District, of Kootenai County, Idaho, hereby certify that the foregoing Resolution is a full, true, and correct copy of a Resolution duly adopted at a regular meeting of the District, duly and regularly held at the regular meeting place thereof on April 17, 2008, of which meeting all members of the Board had due notice and at which a majority thereof were present; and that at said meeting said Resolution was adopted by the following vote:

AYES, and in favor thereof, Directors: *Four*

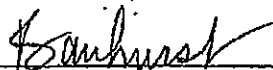
NAYS, Directors: *None*

ABSENT, Directors: *One*

ABSTAIN, Directors: *None*

I further certify that I have carefully compared the same with the original Resolution on file and of record in my office; that said Resolution is a full, true, and correct copy of the original Resolution adopted at said meeting; and that said Resolution has not been amended, modified, or rescinded since the date of its adoption, and is now in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the official seal of the District on April 17, 2008.


District Secretary

(SEAL)

Appendix B

RESOLUTION NO. 2008 - 15

A RESOLUTION of North Kootenai Water District, Kootenai County, Idaho, adopting certain conservation measures, directing that conservation efforts of the District be publicized and that residents of the District be encouraged to conserve water; providing for communication of conservation programs to constituents of the District; providing for the effective date of this Resolution and the Districts Conservation Plan; and providing for other matters properly relating thereto—

NORTH KOOTENAI WATER DISTRICT
Kootenai County, Idaho

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE NORTH KOOTENAI WATER DISTRICT, Kootenai County, Idaho, as follows:

WHEREAS, North Kootenai Water District ("District"), governed by a Board of Directors ("Board") is a duly and properly formed water district under and by virtue of the laws of the State of Idaho;

WHEREAS, the District received and accepted for review and discussion a Water Conservation Plan ("Plan") on October 4, 2007, which Plan was prepared for the District by its Engineers, which the District Board has reviewed and discussed;

WHEREAS, the District staff has prepared a list of conservation measures which the Board has discussed at its meetings of April 3, 2008, April 17, 2008, and May 1, 2008;

WHEREAS, the District noticed and held a public hearing on conservation measures, most specifically the implementation of mandatory non-irrigation hours, which hearing was held by the Board on April 3, 2008;

WHEREAS, the Board received public and written comments on the proposed mandatory non-irrigation hours and also received additional information on the impact of irrigation in the timeframe of 10:00 a.m. to 12:00 p.m. during summer hours;

WHEREAS, the District did survey the other municipal water purveyors on their conservation programs with the hope of coordinating components of the Districts adopted program with programs in place in or contemplated by other municipal water purveyors in the area;

WHEREAS, the Board wishes to implement a program that will have immediate impact on reducing water use and also develop information to expand its conservation efforts in the future.

NOW, THEREFORE, IT IS HEREBY FURTHER RESOLVED as follows:

Section 1: MANDATORY NON-IRRIGATION HOURS

Commencing on June 1, 2008, the Board will implement mandatory non-irrigation hours within the boundaries of the District for the months of June through September, inclusive. The mandatory non-irrigation hours shall run from 12:00 p.m. to 6:00 p.m. each day.

The District staff will strive to notify those who violate these hours to remind them of the District's policy. This notification may take a number of forms, including door hangers, letters, telephone calls and personal visits or conversations.

The District Manager or his designee is authorized to declare a water shortage/emergency when the circumstances and weather support the potential for water shortage/emergency. Upon making the declaration of a shortage or emergency, the District Manager has the authority to additionally restrict, in any manner deemed appropriate, the use of water from the District's water system for irrigation and outside watering. Such restrictions may include limitations upon the hours, type and location of water usage or may allow disconnection of users who fail to comply with restrictions.

Section 2: IMPLEMENTATION OF REBATE PROGRAM

The District hereby adopts the program described in Exhibit "A", attached hereto and incorporated herein by this reference. The District will provide rebates to customers who provide acceptable proof of expenditure of funds, as described in the program description, for the purchase and use of approved instruments to assist in water conservation. The Board believes it is in the best interests of the District to encourage conservation by residents of the District and finds that it is an appropriate expenditure of District funds to assist in this effort. A reduction in water use, which would be facilitated by implementation of this program, may assist the District in reducing the need for some of its future capital expenditures.

Section 3: REQUIREMENTS IN NEW SUBDIVISIONS

All new residential subdivisions will be required to develop an irrigation plan which incorporates moisture and/or rain sensors into their residential irrigation systems.

Section 4: EDUCATION AND INFORMATION

The Board believes that water is a very important resource for our region and community. The Board asks staff to continue to communicate the importance of water as a resource and the need for all to work towards conservation of water. The Board directs that staff continue to develop communication of the programs authorized herein.

Section 5: IDENTIFICATION OF AREAS OF INFORMATION TO DEVELOP AND FURTHER REFINEMENT OF CONSERVATION GOALS

The Board hereby affirms the following as goals for fiscal year 2008/09:

(a) Reduce Consumption Per Connection. The District will continue to develop better information upon which it can hopefully establish numerical components as part of conservation goals. It is hoped that the baseline of this information can be developed on or before December 1, 2008.

(b) Reduce System Water Loss. The District will continue to update its current leak detection program, hoping to develop a baseline of information upon which to develop future activities on or before December 1, 2008.

(c) Annual Review. Commencing in October, 2008, the Board will receive an annual review to determine the impact of conservation measures implemented during the preceding year. After such a review, the Board may modify its conservation program or goals.

Section 6: AUTHORIZATION TO DEVELOP AND COLLECT INFORMATION IN CONJUNCTION WITH CONSERVATION EFFORTS

The Board hereby authorizes the staff and the District engineer to collect information which may be used to develop effective policies in the important areas described within this Resolution.

Section 7: EFFECTIVE DATE OF CONSERVATION PROGRAMS DESCRIBED HEREIN

The conservation programs described herein shall be effective on and after June 1, 2008. The Board reserves the option to modify these policies to respond to District needs or to make the programs more effective.

Section 8: SEVERABILITY

If any section, paragraph, clause, or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of each section, paragraph, clause, or provision shall in no manner affect any remaining provision of this Resolution.

Section 9: EFFECTIVE DATE OF RESOLUTION

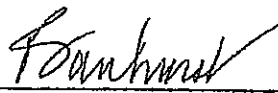
This Resolution shall take effect and be in force and effect from and after its passage and approval.

PASSED at a regular meeting of the Board of Directors of the North Kootenai Water District, held on the 1st day of May, 2008, upon which a roll call vote was duly taken and duly enacted.

NORTH KOOTENAI WATER DISTRICT


Chairman

ATTEST:


Secretary

I, the undersigned, Secretary of the North Kootenai Water District, Kootenai County, Idaho hereby certify that the foregoing Resolution is a full, true, and correct copy of a Resolution duly adopted at a regular meeting of the Board of Directors, duly and regularly held at the regular meeting place thereof on May 1, 2008, of which meeting all members of said Board had due notice and at which a majority thereof were present; and that at said meeting said Resolution was adopted by the following vote:-----

AYES, and in favor thereof, Boardmembers: *Five*

NAYS, Boardmembers: *None*

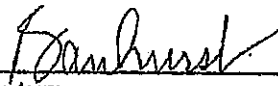
ABSENT, Boardmembers: *None*

ABSTAIN, Boardmembers: *None*

I further certify that I have carefully compared the same with the original Resolution on file and of record in my office; that said Resolution is a full, true, and correct copy of the original Resolution adopted at said meeting; and that said Resolution has not been amended, modified, or rescinded since the date of its adoption, and is now in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the official seal of the Board on May 1, 2008.

NORTH KOOTENAI WATER DISTRICT


Secretary

North Kootenai Water District
Residential Landscape Rebate Credit

REQUIRED CUSTOMER INFORMATION

First and Last Name

Address

City, State and Zip

Phone Number

Department Account Number

I certify the information I have provided is true and correct, and I have purchased the goods and services for use at the location indicated. I grant permission to North Kootenai Water District, with notification, to enter upon the property to inspect the installation of residential landscape rebate credit devices to ensure program requirements are met.

Signature

Date

___ Rain Sensor Switch

___ Soil Moisture Sensor

___ Hose Bib Timer

Maximum one-time rebate credit per
Residential customers: \$75

The rebate will be in the form of a credit to your
utility account

PLEASE MAIL THIS APPLICATION AND
PROOF OF PURCHASE TO:

North Kootenai Water District
1841 West Hayden Ave.
P.O. Box 2290
Hayden, ID 83835

Please allow 4-6 weeks for processing

Rebate Eligibility Requirements

- The rebate applicant must be a North Kootenai Water District residential customer with a water account in good standing.
- Eligible residences must be owner occupied single family dwellings on the North Kootenai Water District System
- The maximum one-time rebate credit per residential customer is \$75.
- All applications must include a copy of proof of purchase (in the form of a sales receipt or purchase invoice that specifies the product/service and date) and UPC code.
- The District will honor receipts for materials and/or services dated May 1, 2008 and after.
- Pre-existing products and services are not eligible.
- Prior to approval, an on-site inspection may be required by North Kootenai Water District.
- The total rebate credit per item cannot exceed 75% of the receipt amount.
- The application must be received within 6 months of purchase.

Rebate Credits are given on a first-come first-serve basis until all rebate credit funds are distributed.

FOR MORE INFORMATION CONTACT:

North Kootenai Water District
1841 West Hayden Ave.
P.O. Box 2290
Hayden, ID 83835

Appendix C

RESOLUTION NO. 2008-23

A Resolution of the Board of Directors of the North Kootenai Water District, Kootenai County, Idaho, forming and funding the Conservation Fund; Identifying projects to be funded from the Conservation Fund; providing for the effective date of the Conservation Fund; providing for the effective date of this Resolution and other matter properly relating thereto

NORTH KOOTENAI WATER DISTRICT
Kootenai County, Idaho

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE NORTH KOOTENAI WATER DISTRICT, Kootenai County, Idaho, as follows:

WHEREAS, the North Kootenai Water District ("District") is a duly and properly formed water district under and by virtue of the constitution and laws of the State of Idaho;

WHEREAS, the District is governed by an elected Board of Directors ("Board");

WHEREAS, the Board is committed to implementing and maintaining a strong conservation effort in the District;

WHEREAS, the Board received and accepted a Conservation Plan ("Plan") from its Engineer and staff in October of 2007;

WHEREAS, the Board approved the Plan on May 1, 2008;

WHEREAS, the Board wishes to create and fund a Conservation Fund ("Fund");

WHEREAS, the Board also wishes to identify project that can be funded by the Fund;

NOW, THEREFORE, IT IS HEREBY FURTHER RESOLVED as follows:

Section 1: CREATION OF CONSERVATION FUND

The Board hereby creates a Conservation Fund to fund projects in the Plan.

Section 2: FUNDING OF THE CONSERVATION FUND

The Board hereby commits the transfer to the Fund of eight percent (8%) of the revenue generated by the water rates generated by Tier 4 water rates of the District.

Section 3: PROJECTS TO BE FUNDED WITH THE CONSERVATION FUND

The 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 line leak detection and repairs and other conservation measures.

Section 4: EFFECTIVE DATE OF FUND

The Board creates the Fund effective October 1, 2008. Monies shall be transferred into the Fund as of October 1, 2008.

Section 5: SEVERABILITY

If any section, paragraph, clause, or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of each section, paragraph, clause, or provision shall in no manner affect any remaining provision of this Resolution.

Section 6: RATIFICATION

The Board hereby ratifies all acts taken by members of the Board and/or agents on behalf of the Board or District relative to the implementation of new rates and charges, and the hearing process is hereby ratified and approved.

Section 7: EFFECTIVE DATE OF RESOLUTION

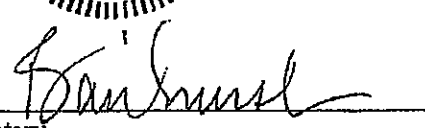
This Resolution shall take effect and be in force and effect from and after its passage and approval.

PASSED at a special meeting of the Board of Directors of the North Kootenai Water District, held on the 17th day of July, 2008, upon which a roll call vote was duly taken and duly enacted.

NORTH KOOTENAI WATER DISTRICT



Chairman



Secretary

K:\1735243\00003117040_MCOM17040R2GVZ

I, the undersigned, Secretary of the North Kootenai Water District, Kootenai County, Idaho hereby certify that the foregoing Resolution is a full, true, and correct copy of a Resolution duly adopted at a special meeting of the Board of Directors, duly and regularly held at a special meeting place thereof on July 17, 2008, of which meeting all members of said Board had due notice and at which a majority thereof were present; and that at said meeting said Resolution was adopted by the following vote:

AYES, and in favor thereof, Boardmembers: 3

NAYS, Boardmembers: 1

ABSENT, Boardmembers: 1

ABSTAIN, Boardmembers: 0

I further certify that I have carefully compared the same with the original Resolution on file and of record in my office; that said Resolution is a full, true, and correct copy of the original Resolution adopted at said meeting; and that said Resolution has not been amended, modified, or rescinded since the date of its adoption, and is now in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the official seal of the Board on July 17, 2008.



NORTH KOOTENAI WATER DISTRICT

Hainhurst
Secretary

Appendix D



March, 2008

Volume 1, Issue 1

NORTH KOOTENAI WATER DISTRICT

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

Board of Directors:

Tom Crimmins, President
Jack Berger, Vice President
Richard Fairhurst, Secretary/Treasurer
Dave Weinstein, Director
Maimie Moore, Director

District Staff:

Mike Galante, District Manager
Mike Ormsby, District Attorney
Phil Boyd, P.E., District Engineer

PUBLIC MEETINGS

Public meetings are held at the District office at 12:30 p.m. on the first and third Thursday of each month; please feel free to attend.

Those Who Need Help
If you have recently received a water bill and are having difficulty paying it, please call the District office at (208) 772-3619. We can help you with your water bills. If you are unable to pay, an additional one-dollar fee on your monthly payment would go a long way in continuing this help. Thank you.

Attention Homeowners

Each year owners of residential sprinkler systems are required by Idaho Code to have their backflow devices tested by a certified backflow tester.

Why is this required?

This is part of the Idaho Cross Connection Program as outlined in the IDAPA Code 58.01.08 sec 543 & 552. A cross connection is the prevention of a non-potable source from contaminating the potable water supply. The purpose of the program is the protection of public health by ensuring safe drinking water. For more information on this, go to www.deq.state.id.us and click on the water tab.

What type of devices?

The types of devices are pictured below. Note that only "testable" devices are required to have the annual testing.

Double Check Valve Assembly and Reduced Pressure Zone Assembly are testable devices.



Double Check Valve Assembly



Reduced Pressure Zone Assembly

Atmospheric Vacuum Breakers and Hose Bibb Vacuum Breakers are accepted devices, but are not testable.



Atmospheric Vacuum Breakers



Hose Bibb Vacuum Breakers

Most residential sprinkler systems use the Double Check Valve Assembly. Chances are your sprinkler system contractor is a certified backflow tester. If not, a list of some of the certified testers can be found on the District's web site at www.nkwsd.com. Your certified tester will send the results to the District office.

Thank you for your help and attention in this matter. We can all work together to make our water safe.

Water Conservation

North Kootenai Water District ("District") has taken a leadership role in protecting one of our region's most precious resources, the Rathdrum Prairie Aquifer. The District is the first water purveyor in Idaho to complete a Water Conservation Plan ("Plan") in accordance with recommendations from the Rathdrum Groundwater Management Study and as required by the Idaho Department of Water Resources. The Plan is available for review at the District office and generally

outlines the District's current water consumption, and goals for reducing overall consumption through education and reasonable conservation measures.

One conservation measure the District plans to implement is mandatory "non-irrigation hours" and the District would like your input. It is a well known fact that irrigating landscapes during the day is very inefficient and the District is considering establishing non-

irrigation hours between 10:00 am and 6:00 pm. The District Board will be discussing this topic at their April 3, 2008 board meeting (12:30 pm at the District office) and welcomes your written input prior to that date or your oral input at the meeting.

We look forward to your comments.

Mission Statement

North Kootenai Water District is a well-organized, financially sound, and efficiently managed public utility district that has a solid reputation of providing safe, reliable, high quality domestic water to our customers at a reasonable and justifiable price. We endeavor to service the domestic water needs of northern Kootenai County in a manner that protects the interests of our constituents. We are a growing entity that structures its decisions upon consideration of the current economic situation, future economic and service implications, and the opportunity to improve, through water service, the quality of life for our current constituents and those petitioning for our assistance.

History

North Kootenai Water District was formed, by a vote of the District electorate in 1991, as a public water district to acquire the assets of the private water company that then served the area. In 1998, the voters passed a bond issue to purchase the private water company and North Kootenai Water District began operations.

The "Debt Service Surcharge" shown on monthly bills repays the principal and interest on these twenty-year bonds. We have also been able to replace depreciated facilities, upgrade our equipment, hire a professional staff, and keep our bills and obligations current from water revenues without the need for imposing a tax rate.

Today we are serving the needs of over 4,000 customers in fifteen separate water systems throughout north Kootenai County. North Kootenai Water District is the third largest water provider in North Idaho, behind the cities of Coeur d'Alene and Post Falls.



April, 2008

Volume 2, Issue 1

NORTH KOOTENAI WATER DISTRICT

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

Board of Directors:

Tom Crimmins, President
Jack Berger, Vice President
Richard Fairhurst, Secretary/Treasurer
Dave Weinstein, Director
Maimie-Moore, Director

District Staff:

Mike Galante, District Manager
Mike Ormsby, District Attorney
Phil Boyd, P.E., District Engineer

PUBLIC MEETINGS

Public meetings are held at the District office at 12:30 p.m. on the first and third Thursday of each month; please feel free to attend.

Helping Those In Need

The District recently began accepting voluntary contributions from rate-payers to help with payment of water bills for those customers temporarily unable to pay. An additional one dollar on your monthly payment would go a long way in continuing this help.

Thank you.

Attention Homeowners

Each year owners of residential sprinkler systems are required by Idaho Code to have their backflow devices tested by a certified backflow tester. Our Spring deadline for residential sprinkler system backflow tests is June 15th. Please make arrangements to have your backflow technician complete this service for you. Non-compliance will result in the District hiring a backflow tester and billing you for the service and the District's time.

Why is this required?

This is part of the Idaho Cross Connection Program as outlined in the IDAPA Code 58.01.08 sec 543 & 552. A cross connection is the prevention of a non-potable source from contaminating the potable water supply. The purpose of the program is the protection of public health by ensuring safe drinking water. For more information on this, go to www.deq.state.id.us and click on the water tab.

What type of devices?

Only "testable" devices are required to have the annual testing.

Double Check Valve Assembly and Reduced Pressure Zone Assembly are testable devices.

Atmospheric Vacuum Breakers and Hose Bibb Vacuum Breakers are accepted devices, but are not testable.

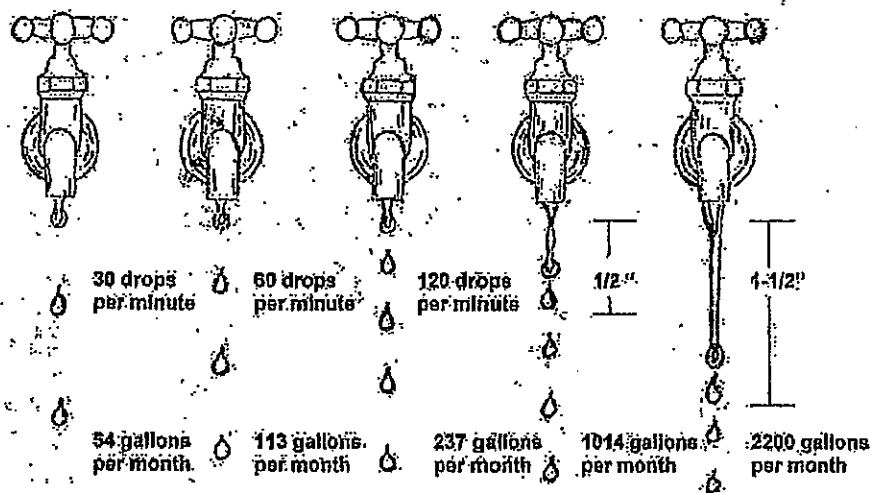
Most residential sprinkler systems use the Double Check Valve Assembly. Chances are your sprinkler system contractor is a certified backflow tester. If not, a list of some of the certified testers can be found on the District's web site at www.nkwsd.com. Your certified tester will send the results to the District office.

Thank you for your help and attention in this matter. We can all work together to make our water safe.

Water Conservation

North Kootenai Water District ("District") has taken a leadership role in protecting one of our region's most precious resources, the Rathdrum Prairie Aquifer. The District is the first water purveyor in Idaho to complete a Water Conservation Plan ("Plan") in accordance with recommendations from the Rathdrum Groundwater Management Study and as required by the Idaho Department of Water Resources. The Plan is available for review at the District office and generally outlines the District's current water consumption, and goals for reducing overall consumption through education and reasonable conservation measures.

Average Loss of Water Leaking Faucets Over a Period of One Month



- Small, continuous leaks will waste large amounts of water.
- In addition, leaks in hot-water lines will waste heat.
- Keep all valves and faucets tight.
- When a leak develops, replace faucet washers.
- If valves or faucets are damaged, replace faucet or valve assembly.



May, 2008

Volume 3, Issue 1

NORTH KOOTENAI WATER DISTRICT

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

Board of Directors:

Tom Crimmins, President
Jack Berger, Vice President
Richard Fairhurst, Secretary/Treasurer
Dave Weinstein, Director
Maimie Moore, Director

District Staff:

Mike Galante, District Manager
Mike Ormsby, District Attorney
Phil Boyd, P.E., District Engineer

PUBLIC MEETINGS

Public meetings are held at the District office at 12:30 p.m. on the first and third Thursday of each month; please feel free to attend.

REMINDER TO HOMEOWNERS

Each year owners of residential sprinkler systems are required by Idaho Code to have their backflow devices tested by a certified backflow tester. Our **Spring deadline for residential sprinkler system backflow tests is June 15th**. Please make arrangements to have your backflow technician complete this service for you. Non-compliance will result in the District hiring a backflow tester and billing you for the service and the District's time.

WATER CONSERVATION

MANDATORY NON-IRRIGATION HOURS

telephone calls or personal visit. Please do your part and comply with this District policy.

Commencing June 1, 2008, the NKWD Board will implement mandatory non-irrigation hours within the boundaries of the District for the months of June through September, inclusive. The mandatory non-irrigation hours shall run from 12:00 pm to 6:00 pm each day.

The District staff will notify those who violate these hours to remind them of the District's policy. This notification may be in the form of door hangers, letters,

REQUIREMENTS FOR NEW RESIDENTIAL SUBDIVISIONS

The District Board recently adopted a policy that all new residential subdivisions will be required to develop an irrigation plan which incorporates moisture and/or rain sensors into their residential irrigation systems.

Helping Those in Need

The District recently began accepting voluntary contributions from rate-payers to help with payment of water bills for those customers temporarily unable to pay. An additional one dollar on your monthly payment would go a long way in continuing this help. Thank you.

IMPLEMENTATION OF REBATE PROGRAM

As part of the District's on-going program to bring water conservation awareness to the District constituents, on May 1, 2008, the District adopted a program to provide rebates to customers who provide acceptable proof of expenditure of funds for the purchase and use of approved instruments to assist in water conservation. The Board believes its in the best interest of the District to encourage conservation by residents within the District and finds that its an appropriate way to use District funds to assist with this effort. A reduction in water use, which would be facilitated by implementation of this program, may assist the District in reducing the need for some of its future capital expenditures. Below please find the rebate eligibility requirements for your information. Should you have questions or require more information regarding this Rebate Program, please contact the District Office at 208/772-3619.

Applications for this Rebate Credit may be picked up at the District Office.

REBATE ELIGIBILITY REQUIREMENTS

- The rebate applicant must be a North Kootenai Water District residential customer with a water account in good standing.
- Eligible residences must be owner occupied, single family dwellings on the North Kootenai Water District System.
- The **maximum** one-time rebate credit per residential customer is \$75.
- All applications must include a copy of **proof of purchase** (in the form of a sales receipt or purchase invoice that specifies the product/service and date) **and UPC code**.
- The District will honor receipts for materials and/or services dated May 1, 2008 and after.
- Pre-existing products and services are **not** eligible.
- Prior to approval, an on-site inspection may be required by North Kootenai Water District.
- The total rebate credit per item cannot exceed 75% of the receipt amount.
- The application must be received within 6 months of purchase.

Rebate Credits are given on a first-come, first-serve basis until all rebate credit funds are distributed.



June, 2008

Volume 1, Issue 3

NORTH KOOTENAI WATER DISTRICT

P.O. Box 2290 ~ 1841 W. Hayden Avenue ~ Hayden, Idaho 83835
(208) 772-3619 ~ (208) 782-0366 Fax

Board of Directors:

Tom Grimmins, President/Director
Jack Berger, Vice President/Director
Richard Fairhurst, Secretary/Treasurer
Marilyn Moore, Director
Dave Weinstein, Director

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E., District Engineer
Mike Ormsby, District Attorney

Introduction

North Kootenai Water District ("District") is proposing to increase its water rates. The water rate increase is necessary to fund increasing fixed and variable operational costs, adequately fund system improvements, and promote water conservation at high water consumption levels. The District last increased water rates in May 2006. The proposed rate increase will result in an estimated 12% (or \$4/month) rate increase for the average water user.

The District's revenue requirements have increased more than 15% in that same time due to increasing fuel, construction, and other operational costs. The District is able to keep the required rate increase low by acquiring other existing systems and spreading costs over a larger customer base. The District acquires existing systems at no cost to the existing District Customers. The following are the proposed rate increases:

Rate	2006 Monthly Rate	Proposed 2008 Monthly Rate	Notes
Debt Service	\$ 3.82	\$ 3.82	The Debt Service fee pays the debt that was incurred to purchase the water system from Hayden Pipes in 1998.
Access Fee	\$13.78	\$15.00	The access fee pays the fixed costs of operating the water district. Each customer pays this fee for access to the water system, regardless of water consumption.
1 - 5000 Gallons	\$1.00/1000 Gallons 6.10	\$1.10/1000 Gallons 6.50	Approximately 72% of the water consumption revenue is used to fund improvements to or replacement of existing water system components such as reservoirs, pipes, and pumps. These funds are allocated in this manner so that future debt will not be necessary to replace system components. 3% of water consumption revenue is used for water conservation measures. The remaining 25% pays the variable costs of producing and delivering domestic and fire protection service where available.
5001 - 15,000 Gallons	\$1.15/1000 Gallons 11.50	\$1.27/1000 Gallons 12.70	
15,001 - 30,000 Gallons	\$1.25/1000 Gallons 18.75	\$1.44/1000 Gallons 21.60	
Over 30,000 Gallons	\$1.90/1000 Gallons	\$2.19/1000 Gallons	

Water Rate Hearing

The District Board of Directors will hold a public hearing on June 26, 2008 at 7:00 pm at the Hayden Lake City Hall, 9893 North Strahorn Road, Hayden Lake, Idaho. The purposes of the hearing are:

- 1) to inform water district constituents of the contemplated fee schedule and increases incorporated therein together with the reasons why the directors of the district believe that fee increases are prudent and necessary to operate and maintain the water system over the long term at a desirable level of service and enhance conservation of our water resource; and
- 2) to receive public comments pertaining to immediate and long term financing of the operations and infrastructure of the water district including a restructured and increased schedule of fees charged to customers for water services provided by the district; and
- 3) to receive public comments regarding policies of the water district that affect compliance with new requirements of the Idaho Department of Water Resources in the area of groundwater management and conservation of our aquifer water resources.

New Construction Inspection Fees

The District Board is committed to having development pay for any impact it has on the District so existing customers do not subsidize development. The District Board is proposing a new construction inspection fee that will charge developers the cost of having the District staff inspect new construction. The proposed fee will be charged as follows:

Number of Lots	Inspection Fee
1 - 5	\$300.00
6 - 15	\$450.00
16 - 30	\$700.00
31 - 50	\$1,400.00
51 - 100	\$2,100.00
> 100	Hourly by Agreement

New Sewer Inspection Fees

The District recently acquired the Gozzer Ranch sewer system (see following section for details). District staff will inspect new sewer services and septic tank installations. The District proposes to charge new sewer service connections a one time \$100.00 inspection fee. Again, the District's intent is to not have the existing customer base pay for development.

Increased Meter Installation Fees

The District continually monitors the cost of new meter service installations. The increasing costs of fuel and materials has increased the District's costs and the District is proposing to increase the cost of new meter service installations as follows:

Meter Size	Current Fee	Proposed Fee
1 inch	\$1,100	\$1,370
1-1/2 inch	\$1,500	\$2,340
2 inch	\$2,000	\$2,675

NKWD Acquires Gozzer Ranch Club Water and Sewer System

The District recently acquired the 400 lot Gozzer Ranch Club Water and Sewer System, at no cost to existing District customers. The District elected to acquire the system because it improves the financial health of the District and continues the District's mission to improve the quality of life of Kootenai County residents by providing high quality operation and management services for water and sewer systems.

The Gozzer water system consists of a slow sand filter water treatment plant served by Coeur d'Alene lake and a water storage and distribution system. The system serves the Gozzer Ranch Community.

The Gozzer sewer system collects wastewater from the Gozzer subdivision, Arrow Point Condominiums and other nearby residences. Wastewater is treated to a Class A standard using a membrane bioreactor with ultraviolet light disinfection. The highly treated effluent is used to irrigate the Gozzer Golf Course in the summer and is stored in the Gozzer Golf Lake during the winter.

Water Conservation

In 2007, the District was among the first municipal water right holders to prepare an official Water Conservation Plan and submit it to the State of Idaho (Idaho Department of Water Resources). The Conservation Plan was prepared in accordance with Goal 5 of the Ground Water Management Plan for the Rathdrum Prairie Aquifer as adopted by the Rathdrum Prairie Ground Water Advisory Committee in September of 2005. The Plan was approved by the IDWR in late 2007. In early 2008, the District moved forward in adopting a Conservation Resolution in order to formally identify the District's Conservation Goals and adopt several of the conservation measures discussed within the Plan.

In accordance with the Conservation Resolution, the District will evaluate the effectiveness of the measures each year with respect to the Conservation Goals and determine whether they will be modified or replaced in the following year.

The District appreciates that its customers consume, on average, less water than many other municipal water right holders in the area. However, there is always room for improvement, and the District will continue to promote conservation and customer awareness through education and public involvement. Additional information on the District's Conservation Program can be found at our website at www.nkwsd.com.

**New Mandatory Non-Irrigation Hours are Between 12 PM
and 6 PM to Reduce Evaporation—
Water that evaporates doesn't help the plants**



Water System Improvements

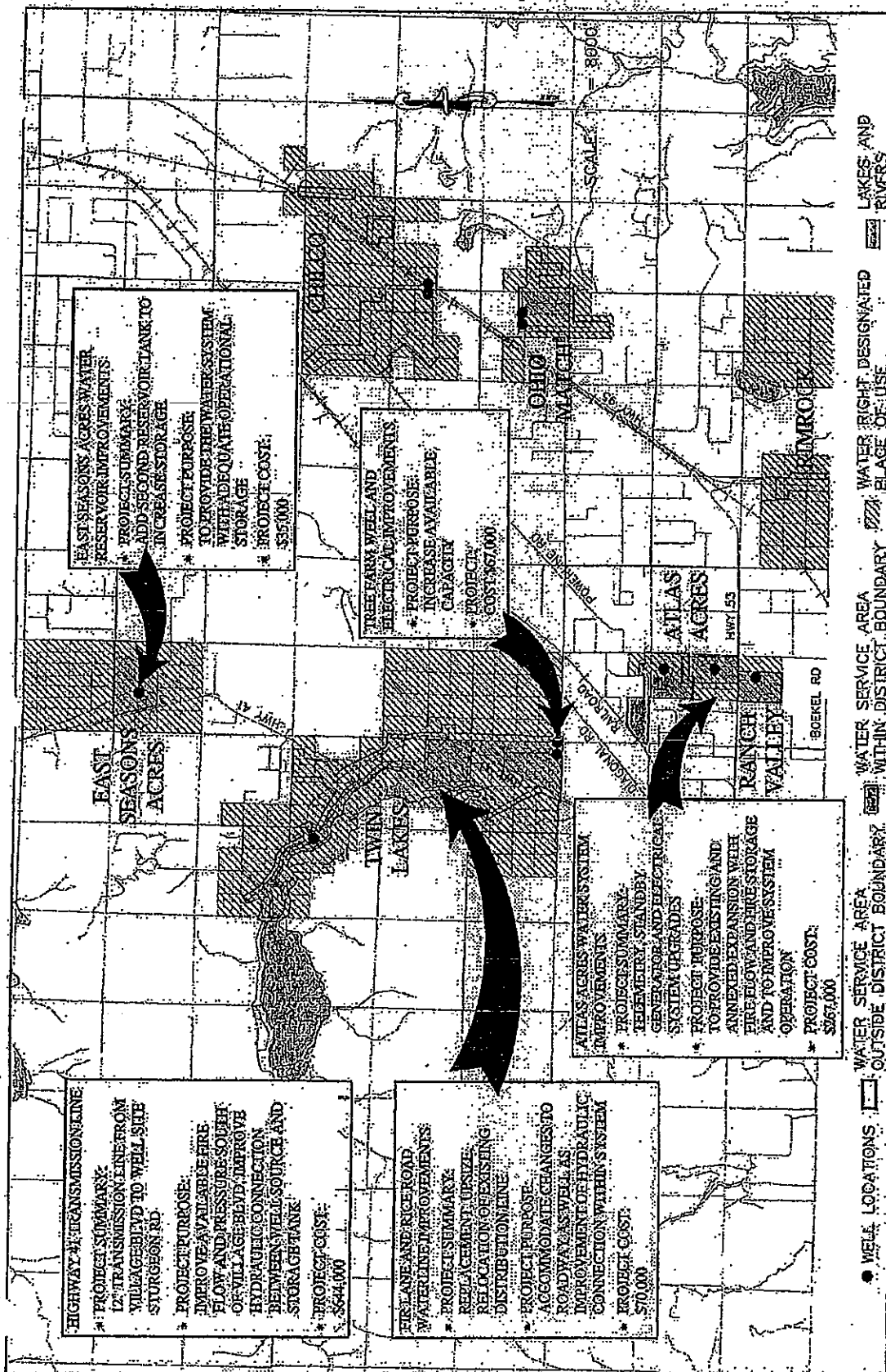
2007 was a busy year for the District, the following pages depict the improvements completed District-wide in 2007.

The following is a list of major improvements that are in progress and scheduled for completion within the 2008/2009 fiscal year.

Water System	Improvement	Description	Purpose
Rimrock	Lancaster Waterline Replacement	Project will include the replacement of approximately 1,300 lineal feet of waterline along Lancaster Road east of Rimrock Road in conjunction with the Lakes Highway District roadway project.	Required due to changes in the roadway profile.
Hillside	Hayden Well #2	Project will include the drilling of a new well and construction of the well pumping facility next to the existing Hayden Well.	Add source redundancy and additional source capacity to the Hillside Water System as necessary to meet increasing system demands.

Questions

If you have any questions, or need any additional information, please feel free to call the District at 208-772-3619. Thank you for the opportunity to serve you.



HIGHWAY 41 TRANSMISSION LINE
* PROJECT SUMMARY:
12" TRANSMISSION LINE FROM
VILLAGE BEND TO WELL SITE
STURGEON RD.
* PROJECT PURPOSE:
IMPROVE AVAILABLE FLOW
AND PRESSURE SOUTH
OF VILLAGE BEND, IMPROVE
HYDRAULIC CONNECTION
BETWEEN WELL SOURCE AND
STORAGE TANK
* PROJECT COST:
\$64,000

FIFTH LANE AND RICE ROAD
 WATERLINE IMPROVEMENTS
 PROJECT SUMMARY
 REPLACEMENT/UPSIZE
 RELOCATION OF EXISTING
 DISTRIBUTION LINE
 PROJECT PURPOSE
 ACCOMMODATE CHANGES TO
 ROADWAYS AS WELL AS
 IMPROVEMENT OF HYDRAULIC
 CONNECTION WITHIN SYSTEM
 PROJECT COST
 \$70,000

ATLAS AIRCRAFT SYSTEMS
IMPROVEMENTS

- * PROJECTS INCLUDE:
THEMEETRY, STANDBY
GENERATOR AND ELECTRICAL
SYSTEM UPGRADES
- * PROJECT PURPOSE:
TO PROVIDE EXISTING AND
ANNEXED EXPANSION WITH
FIRE FLOW AND FIRE STORAGE
AND TO IMPROVE SYSTEM
OPERATION
- * PROJECT COST:
\$257,000

* EAST SEASONS ACRES WATER RESERVOIR IMPROVEMENTS
 * PROJECT SUMMARY: ADD SECOND RESERVOIR TANK TO INCREASE STORAGE
 * PROJECT PURPOSE: TO PROVIDE THE WATER SYSTEM WITH ADEQUATE OPERATIONAL STORAGE
 * PROJECT COST: \$35,000

TREX FARM WELL AND ELECTRICAL IMPROVEMENTS

- PROJECT PURPOSE: INCREASE AVAILABLE CAPACITY
- PROJECT COST: \$67,000

RANCH VALLEY
BOEKEL RD
HWY 53

WELL LOCATIONS WATER SERVICE AREA WATER SERVICE AREA WATER RIGHT DESIGNATED PLACE OF USE

OUTSIDE DISTRICT BOUNDARY WITHIN DISTRICT BOUNDARY

WELCH-COMER
ENGINEERS & SURVEYORS

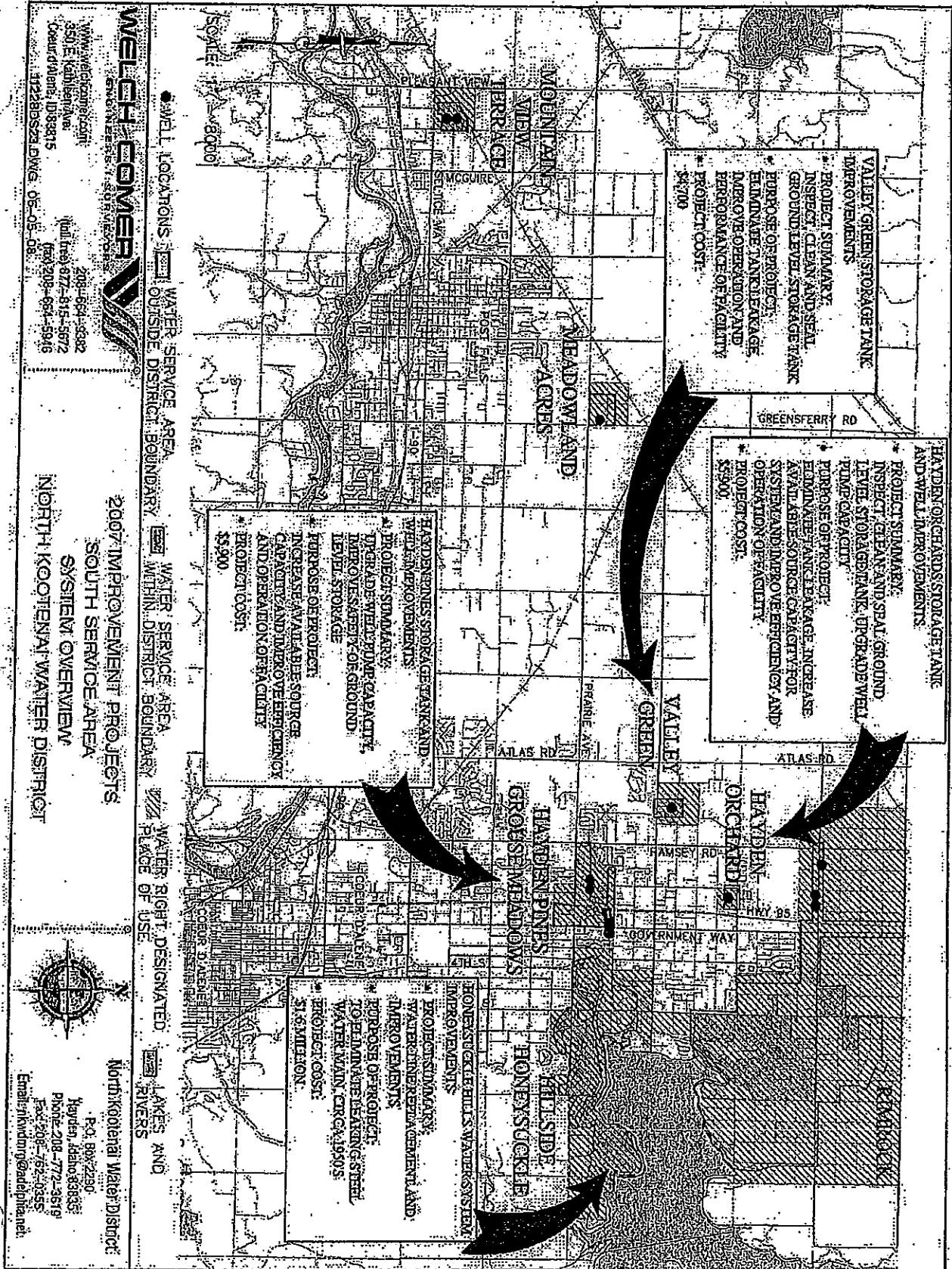
208-664-3382
(toll free) 877-815-5972
(fax) 208-664-5946
NW 08-05-08

www.welchcomer.com
350 E. Kathleen Ave.
Coeur d'Alene, ID 83814
712280523.DWG

2007 IMPROVEMENT PROJECTS
NORTH SERVICE AREA
SYSTEM OVERVIEW
NORTH KOONENAI WATER DISTRICT

North Kootenai Water District
P.O. Box 2290
Hayden, Idaho 83835
Phone: 208-772-3519
Fax: 208-752-0355
Email: skw@nkwadeph.net





Permit No. 1
Hayden Lake, Idaho
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NORTH KOOTENAI WATER DISTRICT
P.O. Box 2280 ~ 1841 W. Hayden Avenue
Hayden, Idaho 83835



Mission Statement

North Kootenai Water District is a well-organized, financially sound, and efficiently managed public utility district that has a solid reputation of providing safe, reliable, high quality domestic water to our customers at a reasonable and justifiable price. We endeavor to service the domestic water needs of northern Kootenai County in a manner that protects the interests of our constituents. We are a growing entity that structures its decisions upon consideration of the current economic situation, future economic and service implications, and the opportunity to improve, through water service, the quality of life for our current constituents and those petitioning for our assistance.



July, 2008

2008, Issue 4

NORTH KOOTENAI WATER DISTRICT

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(208) 772-3619 ~ (208) 762-0355 Fax

Board of Directors:

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Maimie Moore, Director
Dave Weinstein, Director

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Phil Boyd, P.E. District Engineer
Mike Ormsby, District Attorney

Rate Changes:

The District Board of Directors held a Public Hearing on June 26, 2008 at 7:00 pm at the Hayden Lake City Hall. The purposes of the hearing was:

- 1) to inform water district constituents of the contemplated fee schedule and increases; and,
- 2) to receive public comments pertaining to immediate and long term financing of the operations and infrastructure of the water district including a restructured and increased schedule of fees charged to customers for water services provided by the district; and,
- 3) to receive public comments regarding policies of the water district that affect compliance with new requirements of the Idaho Department of Water Resources in the area of groundwater management and conservation of our aquifer water resources.

Following is the newly adopted rate schedule:

Rate	New Rate Effective 6/16/08	Notes
Debt Service	\$ 3.82	Pays the debt incurred to purchase the water system from Hayden Pines in 1998.
Access Fee	\$15.00	Pays the fixed costs of operating the water district. Each customer pays this fee for access to the water system, regardless of water consumption.
1 – 5000 Gallons	\$1.10/1000 Gallons	Approximately 72% of the water consumption revenue is used to fund improvements to or replacement of, existing water system components such as reservoirs, pipes, and pumps. These funds are allocated in this manner so that future debt will not be necessary to replace system components. 3% of water consumption revenue is used for water conservation measures. The remaining 25% pays the variable costs of producing and delivering domestic and fire protection service where available.
5001 – 15,000 Gallons	\$1.27/1000 Gallons	
15,001 – 30,000 Gallons	\$1.44/1000 Gallons	
Over 30,000 Gallons	\$2.19/1000 Gallons	

Lancaster Road Project

Lakes Highway District is reconstructing Lancaster Road, from Strahorn Road to 1/4 mile east of Rimrock Road. North Kootenai Water District has a 10" and a 12" water main in this area. A portion of the road is being lowered, thus affecting the District's main.

We are currently relocating approximately 1300 feet of 10" water main and 9 individual water services in this area.

During the installation of an Avista gas main, their contractor broke our 12" water main causing a temporary outage for some of the Rimrock service area. When this line was repaired later that night and repressurized, several individual water services developed leaks. Galvanized fittings were used on these services, and as we all know, the Rimrock soil is primarily clay. These galvanized fittings were deteriorated to the point of being paper-thin. The shut down and repressurization caused them to fail. District field crews worked into the next morning repairing the failed services.

A special note of thanks to those Rimrock residents who were affected by this event. Your understanding and patience is greatly appreciated by the District staff!

Avondale Loop Leak Repair

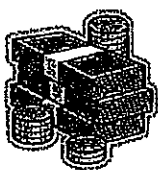
On Friday, July 11th, a leak was discovered on Avondale Loop. This particular area of the Rimrock system has a steel water line installed in the early 1970's. The fittings for this line are odd size and were fabricated for the job. A leak developed in a joint at a 33-degree elbow. The repair required the District's crew to shut down the main, cut the leaking area and reinstall pipe and fittings with transition fittings to adapt from the old to new piping.

Again, we thank ☺ Tom Crimmins for the pizza he brought to a tired crew, and for the residents understanding and patience during the course of the repair.

Water Conservation

The District Board of Directors has taken a pro-active approach to water conservation. We are all blessed by having a pristine source of water in the Rathdrum Aquifer. We want to be good stewards of this valuable resource.

The District has instituted mandatory non-irrigation hours during the summer months. Please, **no watering from Noon to 6:00 p.m. daily during the summer.** During the hottest time of the day most of the irrigation water is lost to evaporation. Check your sprinkler timer and set it to water in the early morning so your landscaping can get the most benefit from the water.



At your request the Conservation Rebate Program has been expanded to include some new items; they are: **Dual Flush Toilets** (have selector switch for low volume/high volume water flushing), **Xeriscaping** (removal of conventional lawn, replacing it with drought resistant type of landscaping), and **Low Flow Sprinkler Heads**.

For those who do not have an automatic sprinkler system, remember that a timer can save water and still keep your landscaping looking great; and, **Timers** qualify under the rebate program!

Backflow Prevention

Thank you all for your cooperation on the backflow testing program. We had many questions regarding this issue, and many of you now understand the necessity and reason behind the IDEQ regulation requiring annual testing of these devices. For those of you with sprinkler systems, the backflow device prevents lawn chemicals like fertilizers & pesticides from being drawn back into the drinking water system in the event of a water main depressurization. Older, non-testable devices are allowed, just contact our office so that we can make a note on your account.



August, 2008

2008, Issue 5

NORTH KOOTENAI WATER DISTRICT

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

Board of Directors:

Tom Crimmins, President/Director
Jack Berger, Vice President/Director
Richard Fairhurst, Secretary/Treasurer
Maimie Moore, Director
Dave Weinstein, Director

District Staff:

Mike Galante, District Manager
Phil Boyd, P.E. District Engineer
Mike Ormsby, District Attorney

Construction Project Updates:

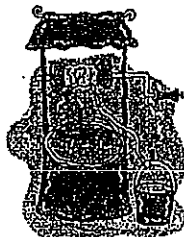
Lancaster Road Project ~ Lakes Hwy District is improving Lancaster Road from Ferndale to just east of Rimrock Road. The project involves moving NKWD's water main in a number of locations. This is due to the vertical height change of the road.

We are working very closely with Lakes Hwy District's contractor, SGI, to preserve and protect the existing water main and prevent it from being damaged during the course of construction.

There have been a number of fire hydrant and individual water meter relocations during the project. We'd like to thank those effected for their cooperation and understanding.

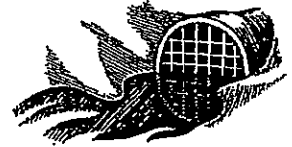
Hayden Well #2 ~ Drilling is in progress! The new well will serve:

- ♦ Hillside service area
- ♦ Hayden Pines/Grouse Meadows service areas
- ♦ Prairie Shopping Center



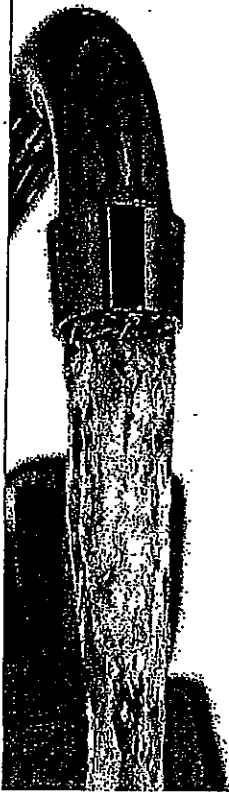
Sewer Line Replacement ~ FYI, On August 18th the Hayden Lake

Recreational Sewer District will begin a new project; replacing the existing sewer line from Strahorn Road to Kensington Avenue. Construction delay and detours are expected in this area.



Corbin Hill Estates ~ this new subdivision, located on the Chilco system, is nearing completion. The developer of this 40 lot subdivision is providing the District with funds to improve the existing pressure system. These improvements are currently being planned and are slated for installation in the very near future. Costs associated with the improvements are being wholly funded by new development, and not by the existing customers.

US HWY 95 ~ The Idaho Transportation Department (ITD) is preparing to begin improvements on US Hwy 95 from Hwy 53 to Ohio Match Road. This 1st phase does not impact NKWD. The next phase, slated for 2010, will have a direct effect on the Chilco system. ITD plans to convert Hwy 95 to a 4 lane divided highway as part of the 'Connecting Idaho Partners' project.



Do you know how often you turn me on?

If only the water faucet could talk to us. It might remind us of how often we turn to it for safe water. Here in Kootenai County we take for granted that safe water is always accessible to drink, to wash our clothes, to water our lawns and for a myriad of other purposes. It might remind us that the water pipes below our streets make so many everyday conveniences possible. When water service is interrupted, we're all reminded of the extraordinary value of water resources and service.

Our water bills pay to keep our community tap water safe, reliable and there for us. For more information about what your tap water delivers, visit www.nkwsd.com.

Only Tap Water Delivers...

- ♦ public health protection.
- ♦ fire protection
- ♦ support for the economy.
- ♦ the overall quality of life we enjoy..

Conservation News ~

Our usage numbers for June and July indicate that overall water usage is down from a year ago. We have not yet corrected these figures for temperature comparisons, but initially it looks like the Conservation Plan is taking off in a positive manner. Thanks to all of you for using the resource wisely!

Notes From the Office ~

Please return the **top** portion of your statement with your check to ensure that your payment is applied appropriately. Many people are tearing off the bottom of their statement and returning it instead. This section does not reference any of your account information (i.e., name, address, meter #) and can make it difficult to locate the correct account to apply the payment too.



Also, please do not write on the 'Financial Aid Contribution' line unless you truly want the money you are sending applied to Financial Aid!



September, 2008

2008, Issue 6

NORTH KOOTENAI WATER DISTRICT

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(208) 772-3619 ~ (208) 762-0355 Fax

Board of Directors:

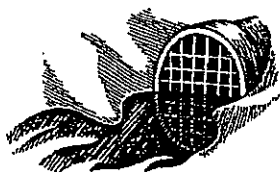
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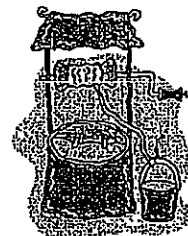
Lancaster Road Project ~ Lakes Hwy District (LHD) and its contractor are reaching the final stages of the Lancaster Road Project. Those of you on the Rimrock system know that this will mean a return to normalcy for our water system. The various contractors on the project have broken our 12" transmission main on three different occasions. This, coupled with a shallow installation of the original water line, has caused numerous outages and lower than normal pressure incidents. Fortunately, by the time you read this the digging will be finished and the road reconstruction will be well underway!



Sewer Line Replacement ~ Hayden Lake Recreational Sewer District is installing a new sewer line on Strahorn Road from Lancaster to Kensington Avenue. LHD is also having new road base installed as a result of the construction. If everything goes as planned, (cross your fingers!) they'll finish in early October.

Dodd Road Line Extension ~ An individual is extending the NKWD water main from the Springrock Reservoir to Dodd Road to provide service to a single parcel (initially). The cost of the improvement is being paid for by the individual developing the single parcel for his own personal residence. NKWD will be installing power conduits while the trench is open to facilitate future 3-phase power to the Springrock Booster Pump Station.

Hayden Well #2 ~ The well drilling phase of Hayden #2 is now complete. The next phase of this project will begin later in the fall. It will include pump installation, construction of a new pump house, and related underground and electrical improvements. Hayden #2 serves the Hillside-Honeysuckle Hills and Grouse Meadows-Hayden Pines areas. The majority of the funding for the project is from new developments in our area.





Welcome Hayden Haven/Gem Shores Residents ~ On August 5, 2008, NKWD held an election at the request of the residents of Hayden Haven/Gem Shores. The electors of this area voted to annex their water system into the North Kootenai Water District. There are currently 52 homes on this system.

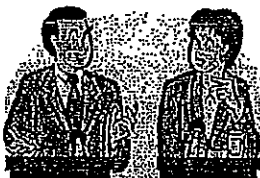
This water system is currently operated by Hayden Lake Recreational Water and Sewer District; it is their only water system. Effective on or about October 1, 2008 the transfer of assets to NKWD will be completed.

Hayden Haven/Gem Shores has a lake intake on Hayden Lake along with a sand filter plant and storage reservoir. Due to operational cost differences for this system, these residents will have a separate, and higher, rate structure than those of you on well water systems. Hayden Haven/Gem Shores residents will participate in the NKWD Bond Repayment schedule.

Conservation News ~ Between water conservation, and the slightly cooler and wetter summer, water usage district wide is down by approximately 16.3% from last year. Thank you all for doing your part to use water wisely. Every little bit helps!



The District will continue the rebate program for irrigation timers, water sensors, specific low volume irrigation heads, dual flush toilets, and Xeriscaping.



Board Seats ~ Our Board of Directors is comprised of 5 officials elected by the District's constituents (you). Currently, there are two board seats that will expire in February 2009. A 3rd seat must also go through the election process in February 2009. This seat was filled by an appointed member when the seat was vacated early (previous member moved outside District boundaries) and must now go through an official election.

An election will be held on **February 3, 2009**, to fill these three board seats. If you would be interested in serving as a Director on the Board you may pick up a 'Declaration of Candidacy' form from our office or print one from our website: www.nkwsd.com.

The cutoff for District candidates to file their 'Declaration of Candidacy' with NKWD is Wednesday, December 24th, 2008, at 12:00 noon.

Notes From the Office ~ Oops! As some of you know by now we had a printer problem last month and some statements were not printed. In an effort to correct the situation we sent duplicate statements to the zip codes we thought were overlooked. We were partly correct, however this caused some customers to receive 2 statements, while some customers still did not receive any statement. We apologize for any inconvenience this may have caused you. We strive to provide our customers with the outstanding service they deserve and expect!





October, 2008

2008, Issue 7

NORTH KOOTENAI WATER DISTRICT

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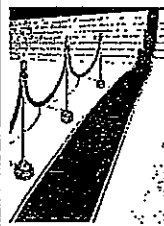
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Phil Boyd, P.E. District Engineer
Mike Ormsby, District Attorney

Construction Project Updates



Lancaster Road Project ~ Roll out the red carpet! At last, this project is in the final stages, paving!!

Dodd Road Line Extension ~ This project will be complete by the publish date of this newsletter.

Sewer Line Replacement ~ The Hayden Lake Recreational Water & Sewer District's contractor is now finishing up the Strahorn project. Final paving will take place this month.

As the construction season comes to a close, the district would like to thank all its constituents affected by this past season of construction. Your patience and understanding is appreciated!



Notes From The Office:



Envelopes ~

Many of you have been using the return envelope we provide with your monthly statement to mail payments to other companies. This is okay, but, you **MUST black out the bar code** located at the bottom of the envelope in addition to crossing out our address. If you DO NOT black out the bar code the Post Office still forwards the envelope to us at NKWD. **Not doing this may cause you to have a delinquent payment!**



Board Seats ~ Our Board of Directors is comprised of 5 officials elected by the District's constituents (you). Currently, there are two board seats that will expire in February 2009. A 3rd seat must also go through the election process in February 2009. This seat was filled by an appointed member when the seat was vacated early (previous member moved outside District boundaries) and must now go through an official election.

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The cutoff for District candidates to file their 'Declaration of Candidacy' with NKWD is Wednesday, December 24th, 2008, at 12:00 noon.



NOTICE OF PUBLIC WORKSHOP AND
PUBLIC HEARING ON CONSERVATION PLAN
OF THE NORTH KOOTENAI WATER DISTRICT

The Board of Directors ("Board") of North Kootenai Water District ("District") accepted a Water System Conservation Plan ("Plan") in October of 2007. The Board has taken various actions to implement the Plan in 2007 and 2008. The Board is presently considering modifications to the Plan for calendar year 2009. It will also be receiving reports from its staff about the results obtained in 2008 from the conservation steps the District has already implemented.

There will be a workshop conducted, and a public hearing held, both of which you are invited to attend. The Board welcomes your comments and input.

Workshop

Date: Thursday, November 6, 2008
Time: 12:30 p.m.
Place: District Office
North Kootenai Water District
1841 West Hayden Ave.
Hayden, ID 83835

Public Hearing

Date: Thursday, November 20, 2008
Time: 12:30 p.m.
Place: District Office
North Kootenai Water District
1841 West Hayden Ave.
Hayden, ID 83835

If you are unable to attend either of these sessions, but have input that you would like to provide to the Board and District, please feel free to provide that comment by mail or electronically to:

Board of Directors
North Kootenai Water District
P.O. Box 2290
Hayden, ID 83835
mikeg@nkwsd.com

Thank you for your attention to the water conservation measures enacted this year. We appreciate the efforts that many are taking to protect and preserve one of our regions most important resources, our water.

Appendix E

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP
LEAK NOISE REPORT

GR

Tech:

Dist. Id

Client

N. Kootenai Water & Sewer

Date: 10/15/08

Date	Map #	Location	Access Point	Noise Level	Pinpoint Date	Leak Report #	Results
10/15/08	5	2679 Lookout Rd	0	4	10/16/08	2	Service line leak - location under
10/15/08	5	2534 Lookout Rd	0	4	10/16/08	3	Service line leak - location under
10/15/08	15	2426 Lookout Rd	0	10	10/16/08	4	Service line leak - location under
10/15/08	1	2337 Lookout Rd	0	4	10/16/08	5	Service line/meter connection leak
10/15/08	15	2045 Lookout Rd	0	7	10/16/08	6	Service line leak - location under
10/15/08	5	2005 Lookout Rd	0	4	10/16/08	7	Service line leak - location under
10/15/08	025	1994 Lookout Rd	0	4	10/16/08	8	Service line/meter connection leak
10/15/08	5	Sundown Dr and Lookout Rd	0	3	10/16/08	9	Broken valve - leak at or near valve
10/15/08	5	2227 Sundown Dr	0	5	10/16/08	10	Service line leak - location under
10/15/08	5	2271 Sundown Dr	0	3	10/16/08	11	No Leak - Usage
10/15/08	5	7784 Sundance Dr	0	4	10/16/08	12	Service line leak - location under
10/15/08	1	7933 Sundance Dr	0	3	10/16/08	13	Service line leak - location under
10/15/08	05	7776 Westview Dr	0	3	10/16/08	14	No Leak - Customer side of meter
10/15/08	05	8037 Westview Dr	0	6	10/15/08	15	Hydrant leaking - requires repair
10/16/08	10	11197 Friar Dr	0	4	10/16/08	16	Main leak - correlation
10/16/08	0	11245 Eastshore Dr	0	4	10/16/08	17	Main leak - correlation
10/17/08	5	2996 Lake Forest Dr	0	10	10/17/08	18	Service line leak - location under
10/17/08	05	11930 Avondale Loop Rd	0	8	10/17/08	19	Hydrant leaking - repaired
10/17/08	5	12623 Avondale Loop Rd	0	5	10/17/08	20	Service line / meter connection

HO Supply

Oct. 15, 2007 3:30PM

Oct. 15, 2007 3:30PM

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP

LEAK REPORT

Leak #: 1 Client: N. Kootenai Water & Sewer Dist., Id. Job #: _____
 Location: 8037 Westview Dr. Map #: _____
 Remarks: Hydrant leaking. Hydrant flushed and tightened down but is still leaking
Hydrant requires further Maintenance. GPS _____
 Tech Initials: GRA Time In: 3:00 PM Time Out: 3:15 PM Total Time: 15 min Date: 10/15/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main ☒ Hydrant ☐ Service Line	☐ Curbstop ☐ Valve ☐ Meter	☐ Service Connection ☐ Undefined ☐ Consumer Side	☐ Other: _____ Site Marked Yes ☐ No ☒
---	---	---	--

Map Not To Scale

Correlations			
Soak Time	Filter	Point Hi	Footage

Equipment Used	
☒ S-30	☐ Probe Rod
☐ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☐ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☐ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☒ Flushed & re-seated hydrant - still leaking	Estimated Leak Rate GPM (Gallons Per Minute) 50
Action Recommended ☒ Excavate & Repair ☐ Install additional access ☒ Repair / Replace ☐ Resurvey following repairs	Classification ☐ Class I ☐ Class II ☒ Class III
Cover Type ☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil	

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 2 Client: N. Kootenai Water & Sewer Dist., Id. Job #: _____

Location: 2679/2657 Lookout Rd Map #: _____

Remarks: Will not correlate. Leak noise only detected at 2679/2657 meters.
Unable to pinpoint leak with ground mic. Leak location on service line undefined.

Tech Initials: GPA Time In: 7:45 AM Time Out: 8:10 AM Total Time: 25 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	Site Marked Yes ☐ No ☒
☒ Service Line	☐ Meter	☐ Consumer Side	

Map Not To Scale

2657

267A

Leak on service line (location undetermined)

Lookout Rd

6"

Correlations

Soan Time	Filter	Point Hit	Foolage
--------------	--------	-----------	---------

[illegible]

Equipment Used

☒ S-30	☐ Probe Rod
☒ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☐ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken:

- ☐ Closed curbstop / valve / meter - leak stopped
- ☒ Closed curbstop / valve / meter - still leaking
- ☐ Flushed & re-seated hydrant - leak stopped
- ☐ Flushed & re-seated hydrant - still leaking

Estimated Leak Rate GPM (Gallons Per Minute)

2

Classification

☐ Class I ☒ Class II ☐ Class III

Action Recommended

☐ Excavate & Repair ☐ Install additional access
☒ Repair / Replace ☐ Resurvey following repairs

Cover Type

☒ Asphalt. ☐ Concrete. ☐ Gravel. ☐ Soil.

JUN. 10. 2008 11:39AM

HD SUPPLY

NO. 0/28. T. 2

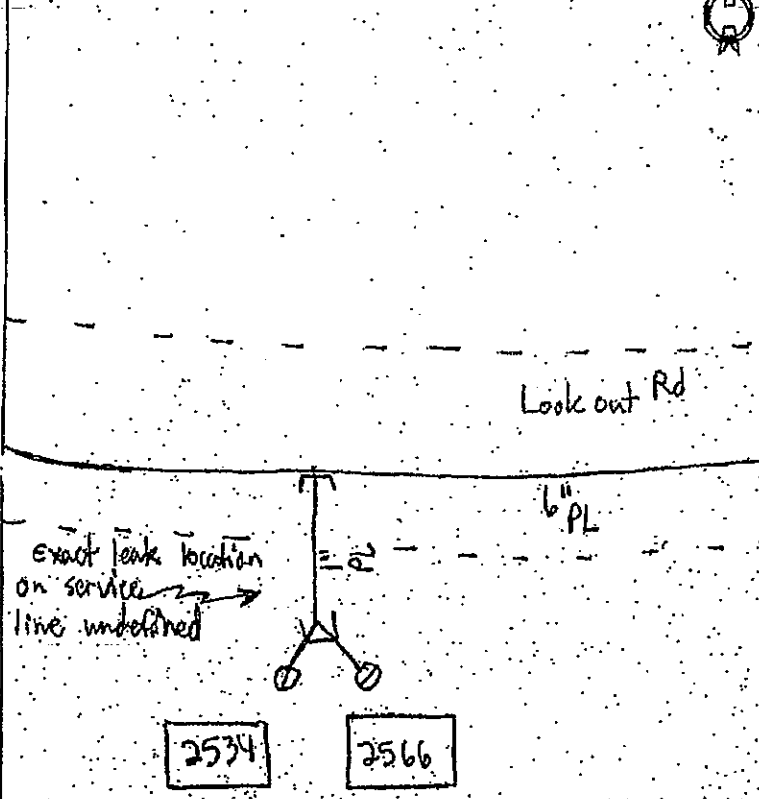
HD SUPPLY WATERWORKS UTILITY SERVICES GROUP

LEAK REPORT

Leak #: 3 Client: N. Kootenai Water & Sewer Dist, Id Job #:Location: 2566/2534 Lookout Rd Map #:Remarks: Will not correlate. Leak noise only detected at 2566/2534 meters.
Unable to pinpoint exact leak location on service line. Leak location on service line undefined.
GPS with ground mic.Tech Initials: GRT Time In: 8:15 AM Time Out: 8:55 AM Total Time: 40 min Date: 10/16/08
☐ Transmission system
 ☒ Distribution system
 ☐ Irrigation system
 ☐ Fire suppression system

☐ Main
 ☐ Hydrant
 ☒ Service Line
 ☐ Curbstop
 ☐ Valve
 ☐ Meter
 ☐ Service Connection
 ☐ Undefined
 ☐ Consumer Side
 ☐ Other _____
 Site Marked: Yes ☐ No ☒

Map Not To Scale



Correlations

Scan Time	Filter	Point Ht	Footage

Equipment Used

☒ S-30
 ☐ Probe Rod
 ☒ LD-12
 ☐ Thermal Camera
 ☐ AccuCorr
 ☐ Hallum Detector
 ☒ TriCorr 2001
 ☐ Line Locator
 ☐ LC-2100
 ☐ LC-2500

Action Taken

☐ Closed curbstop / valve / meter - leak stopped
 ☒ Closed curbstop / valve / meter - still leaking
 ☐ Flushed & re-seated hydrant - leak stopped
 ☐ Flushed & re-seated hydrant - still leaking

Estimated Leak Rate GPM (Gallons Per Minute)

5

Classification

☐ Class I
 ☒ Class II
 ☐ Class III

Action Recommended

☐ Excavate & Repair
 ☐ Install additional access
 ☒ Repair / Replace
 ☐ Resurvey following repairs

Cover Type

☐ Asphalt
 ☐ Concrete
 ☐ Gravel
 ☒ Soil

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 4 Client: N. Kootenai Water & Sewer Dist, Id Job #: _____
 Location: 2426 Lookout Rd Map #: _____

Remarks: Will not correlate. Leak noise only detected at 2426 meter. Leak pinpointed to service line saddle to main with ground microphone

Tech Initials: GRA Time In: 9:00 AM Time Out: 9:30 AM Total Time: 30 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main ☐ Curbstop ☐ Service Connection ☐ Other _____
☐ Hydrant ☐ Valve ☐ Undefined ☐ Site Marked Yes ☒ No
☒ Service Line ☐ Meter ☐ Consumer Side

Map Not To Scale

Correlations			
Scan Time	Filter	Point Hit	Footage

Equipment Used	
☒ S-30	☐ Probe Rod
☒ LD-12	☐ Thermal Camera
☐ AccuCorr.	☐ Helium Detector
☒ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken	Estimated Leak Rate GPM (Gallons Per Minute)
☐ Closed curbstop / valve / meter - leak stopped ☒ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	<u>15</u>
	Classification ☐ Class I ☒ Class II ☐ Class III
Action Recommended	Cover Type
☐ Excavate & Repair ☐ Install additional access ☒ Repair / Replace ☐ Resurvey following repairs	☒ Asphalt ☐ Concrete ☐ Gravel ☐ Soil

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP **LEAK REPORT**

Leak #: 5 Client: N. Kootenai Water & Sewer Dist, Id Job #: _____

Location: 2337/2315 Lookout Rd Map #: _____

Remarks: Will not correlate. Leak noise only detected at 2337/2315 meters. Unable to pinpoint exact leak location with ground mic. Leak probably at service line connection path near meters or at sewer connection.

Tech Initials: GRA Time In: 9:30 AM Time Out: 10:00 AM Total Time: _____ Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	
☒ Service Line	☐ Meter	☐ Consumer Side	Site Marked Yes ☐ No ☒

Map Not To Scale Leak at service or meter connection 2315 2337 Lookout Rd 6" PL 8" PL Westview Dr.	Correlations <table border="1"> <thead> <tr> <th>Scan Time</th> <th>Filter</th> <th>Point HI</th> <th>Footage</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Scan Time	Filter	Point HI	Footage																																
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Action Recommended ☒ Excavate & Repair ☐ Repair / Replace ☐ Install additional access ☐ Resurvey following repairs	Classification ☐ Class I ☐ Class II ☒ Class III Cover Type ☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil

LEAK REPORT

Location: 2081/2045 Lookout Rd Man #:

Remarks: Will not correlate, Leak noise only detected at 2081/2045 meters. Unable to pinpoint exact leak location on service line with ground mic. Leak location on service line undefined.

Tech Initials: GRA Time In: 10:05 AM Time Out: 10:40 AM Total Time 35 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	Site Marked Yes ☐ No ☒
☒ Service Line	☐ Meter	☐ Consumer Side	

Map Not To Scale

2045

2081

Exact leak location on service line *undefined*

Lookout Rd

1" PL

6" PL

Correlations			
Scan Time	Filter	Point Ht	Footage

Equipment Used	
☒ S-30	☐ Probe Rod
☒ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☒ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken
☐ Closed curbstop / valve / meter - leak stopped
☒ Closed curbstop / valve / meter - still leaking
☐ Flushed & re-seated hydrant - leak stopped
☐ Flushed & re-seated hydrant - still leaking

Action Recommended
☐ Excavate & Repair
☒ Repair / Replace
☐ Install additional access
☐ Resurvey following repairs

Estimated Leak Rate GPM (Gallons Per Minute)
15

Classification
☐ Class I ☒ Class II ☐ Class III

Cover Type
☒ Asphalt ☐ Concrete ☐ Gravel ☐ Soil

HD-SUPPLY WATERWORKS UTILITY SERVICES GROUP **LEAK REPORT**

Leak #: 7 Client: N. Kootenai Water and Sewer Dist, Id Job #: _____

Location: 2005 Lookout Rd Map #: _____

Remarks: Will not correlate. Leak noise only detected at 2005 meter. Unable to pinpoint exact leak location on service line with ground mic. GPS Leak location on service line under

Tech Initials: GRA Time In: 10:40 AM Time Out: 11:05 AM Total Time: 25 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	Site Marked Yes ☐ No ☒
☒ Service Line	☐ Meter	☐ Consumer Side	

Map Not To Scale 2005 Exact leak location on service line undefined Lookout Rd 6" PL	Correlations <table border="1"> <thead> <tr> <th>Scan Time</th> <th>Filter</th> <th>Point HI</th> <th>Footage</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Scan Time	Filter	Point HI	Footage																												
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Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☒ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking																																	

Action Recommended ☐ Excavate & Repair ☒ Repair / Replace ☐ Install additional access ☐ Resurvey following repairs	Estimated Leak Rate GPM (Gallons Per Minute) <u>5</u> Classification ☐ Class I ☒ Class II ☐ Class III Cover Type ☒ Asphalt ☐ Concrete ☐ Gravel ☐ Soil
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HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 8. Client: N. Kootenai Water + Sewer Dist, Id Job #: _____

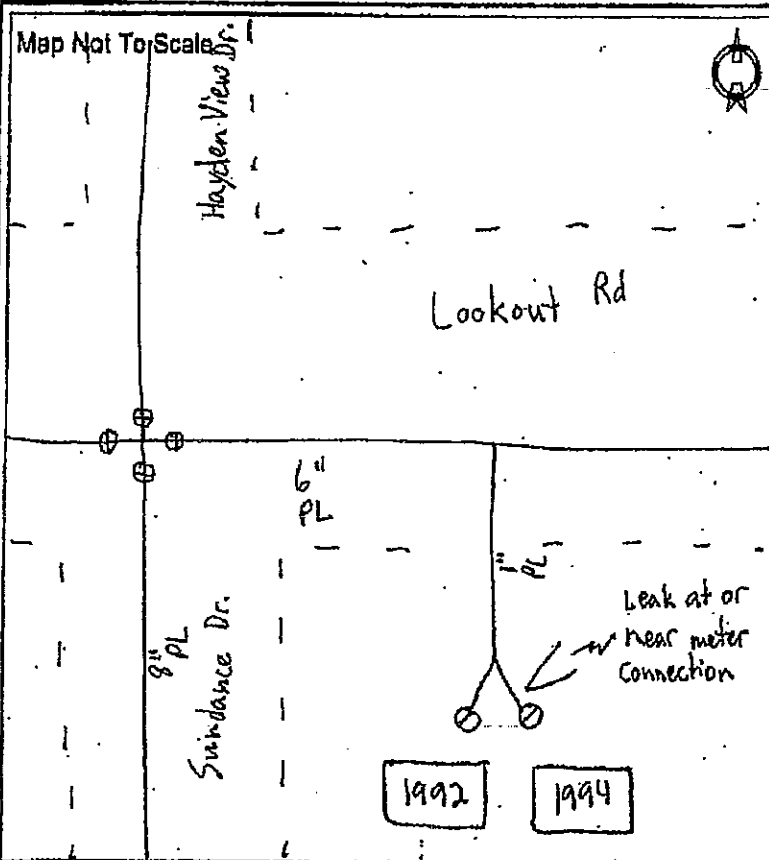
Location: 1994 / 1992 Lookout Rd Map #: _____

Remarks: Will not correlate; Leak noise only detected at 1992/1994 meters. Unable to pinpoint exact leak location with ground microphone. Leak probably at 1994 meter/setter

Tech Initials: GRA Time In: 11:05 AM Time Out: 11:35 AM Total Time: _____ Date: 10/16/08

☐ Transmission system ☐ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main ☐ Curbstop ☒ Service Connection ☐ Other _____
☐ Hydrant ☐ Valve ☐ Undefined ☐ Site Marked Yes ☐ No
☐ Service Line ☐ Meter ☐ Consumer Side



Correlations			
Scan Time	Filter	Point Ht	Footage

Equipment Used

☒ S-30 ☐ Probe Rod
☒ LD-12 ☐ Thermal Camera
☐ AccuCorr ☐ Helium Detector
☐ TriCorr 2001 ☐ Line Locator
☐ LC-2100 ☐ LC-2500

Action Taken	Estimated Leak Rate GPM (Gallons Per Minute)
☐ Closed curbstop / valve / meter - leak stopped ☒ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	<u>25</u>
Action Recommended	Classification
☒ Excavate & Repair ☐ Install additional access ☐ Repair / Replace ☐ Resurvey following repairs	☐ Class I ☐ Class II ☒ Class III
Cover Type	
☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil	

LEAK REPORT

LEAK REPORT

Leak #: 10 Client: N. Kootenai Water & Sewer Dist., Id

Location: 2227 Sundown Dr.

Remarks: Will not correlate. Leak noise only detected at 2227 meter. Unable to pinpoint exact leak location on service line with ground mic, leak location on service line under the GPS

Tech Initials: GRA Time In: 1:10 PM Time Out: 1:45 PM Total Time 35 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	Site Marked Yes ☐ No ☒
☒ Service Line	☐ Meter	☐ Consumer Side	

Map Not To Scale

8" PL Dr.
Sundown

- ☐ Service Connection
- ☐ Undefined
- ☐ Consumer Side

☐ Other _____

Site Marked Yes ☐ No ☒

Correlations

Scan Time	Filter	Point Ht	Footage
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Equipment Used

☒ S-30	☐ Probe Rod
☒ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☒ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken

☐ Closed curbstop / valve / meter - leak stopped
☒ Closed curbstop / valve / meter - still leaking
☐ Flushed & re-seated hydrant - leak stopped
☐ Flushed & re-seated hydrant - still leaking

Estimated Leak Rate GPM (Gallons Per Minute)

5

Cincojenson

☐ Class I ☒ Class II ☐ Class III

Action Recommended

☐ Excavate & Repair ☐ Install additional access
☒ Repair / Replace ☐ Resurvey following repairs

Cover Type

☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil

LEAK REPORT

Tech Initials: GPA Time In: 2:10 PM Time Out: 2:50 PM Total Time 40 min Date: 10/16/08

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	Site Marked Yes ☐ No ☒
☒ Service Line—	☐ Meter	☐ Consumer Side	

Map Not To Scale		Correlations			
Scan Time	Filter	Point Hi	Footage		
Equipment Used					
☒ S-30	☐ Probe Rod				
☒ LD-12	☐ Thermal Camera				
☐ AccuCorr	☐ Helium Detector				
☒ TriCorr 2001	☐ Line Locator				
☐ LC-2100	☐ LC-2500				

Action Taken		Estimated Leak Rate GPM (Gallons Per Minute)	
☒ Closed curbstop / valve / meter - leak stopped		5	
☒ Closed curbstop / valve / meter - still leaking			
☐ Flushed & re-sealed hydrant - leak stopped			
☐ Flushed & re-sealed hydrant - still leaking			

Action Recommended	
☐ Excavate & Repair	☐ Install additional access
☒ Repair / Replace	☐ Resurvey following repairs

Cover Type	
☐ Asphalt	☐ Concrete
☐ Gravel	☒ Soil

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP

LEAK REPORT

Leak #: 12 Client: N. Kootenai Water & Sewer Dist, Id. Job #: _____

Location: 7933 Sundance Dr. Map #: _____

Remarks: Will not correlate. Leak noise only detected at 7933 meter. Unable to pinpoint exact leak location on service line with ground mic. Leak location on service line undetected.

Tech Initials: GRT Time In: 2:50 PM Time Out: 3:10 PM Total Time: 20 min Date: 10/16/09

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	
☒ Service Line	☐ Meter	☐ Consumer Side	Site Marked Yes ☐ No ☒

Map Not To Scale	Correlations <table border="1"> <thead> <tr> <th>Scan Time</th> <th>Filter</th> <th>Point Ht</th> <th>Footage</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Scan Time	Filter	Point Ht	Footage																												
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☐ TriCorr 2001	☐ Line Locator																																
☐ LC-2100	☐ LC-2500																																

Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☒ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	Estimated Leak Rate GPM (Gallons Per Minute) <u>1</u>
Action Recommended ☐ Excavate & Repair ☒ Repair / Replace ☐ Install additional access ☐ Resurvey following repairs	Classification ☐ Class I ☐ Class II ☒ Class III Cover Type ☒ Asphalt ☐ Concrete ☐ Gravel ☐ Soil

49
167
19

42.9

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP

LEAK REPORT

Leak #: 13 Client: N. Kootenai Water & Sewer Dist., Id Job #: _____

Location: 11197 Friar Dr Map #: _____

Remarks: Good correlation to main leak from one setup. Unable to verify leak with ground mic. Maybe more than one leak (197 feet from A)

Tech Initials: GRA Time In: 3:40 PM Time Out: 4:40 PM Total Time: 60 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☒ Main ☐ Curbstop ☐ Service Connection ☐ Other _____
☐ Hydrant ☐ Valve ☐ Undefined ☐ Site Marked Yes ☒ No
☐ Service Line ☐ Meter ☐ Consumer Side

Map Not To Scale		Correlations			
Scan Time	Filter	Point Hi	Footage		
20	4	5	79.5		
20	5	8	77.8		
20	5	10	75.7		
202	5	9	77.8		
202	5	10	77.8		
				Equipment Used	
				☒ S-30	☐ Probe Rod
				☒ LD-12	☐ Thermal Camera
				☐ AccuCorr	☐ Hallum Detector
				☒ TriCorr 2001	☐ Line Locator
				☐ LC-2100	☐ LC-2500

Map Not To Scale

11103 11159 11197 11213

Dig Approx 27.8' from A

167 8" ST

Friar Dr.

Action Taken	Estimated Leak Rate GPM (Gallons Per Minute)
☐ Closed curbstop / valve / meter - leak stopped ☐ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	<u>10</u> Classification ☐ Class I ☒ Class II ☐ Class III
Action Recommended	Cover Type
☐ Excavate & Repair ☐ Install additional access ☒ Repair / Replace ☐ Resurvey following repairs	☐ Asphalt ☐ Concrete ☒ Gravel ☐ Soil

14
334
16

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 14 Client: N. Kootenai Water & Sewer Dist, Id Job #: _____

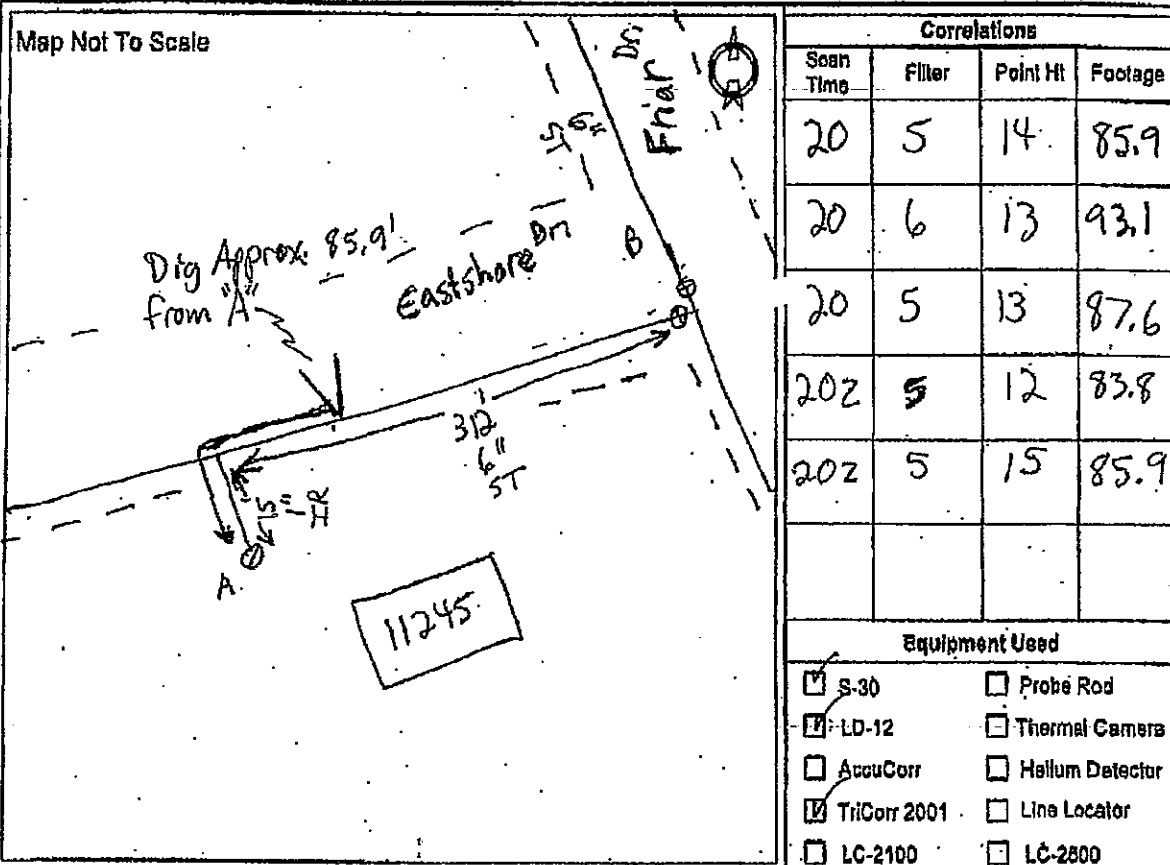
Location: 11245 Eastshore Dr. Map #: _____

Remarks: Good Correlation to main leak from one setup. Verified leak near pinpointed location with ground mic. GPS _____

Tech Initials: GRA Time In: 5:00 PM Time Out: 5:40 PM Total Time: 40 min Date: 10/16/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☒ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	
☐ Service Line	☐ Meter	☐ Consumer Side	Site Marked Yes ☒ No ☐



Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☐ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	Estimated Leak Rate GPM (Gallons Per Minute) 10 Classification ☐ Class I ☒ Class II ☐ Class III
Action Recommended ☒ Excavate & Repair ☐ Install additional access ☐ Repair / Replace ☐ Resurvey following repairs	Cover Type ☒ Asphalt ☐ Concrete ☐ Gravel ☐ Soil

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 16 Client: N. Kootenai Water+Sewer Dist., Id Job #: _____
 Location: 11930 Avondale Loop Rd Map #: _____
 Remarks: Hydrant leaking. Hydrant flushed and tightened down. Repaired ✓
 GPS _____

Tech Initials: GRT Time In: 11:10 AM Time Out: 11:30 AM Total Time: 20 min Date: 10/17/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main ☒ Hydrant ☐ Service Line	☐ Curbstop ☐ Valve ☐ Meter	☐ Service Connection ☐ Undefined ☐ Consumer Side	☐ Other _____ Site Marked Yes ☐ No ☒
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Map Not To Scale

Correlations			
Scan Time	Filter	Point Ht	Footage

Equipment Used	
☒ S-30	☐ Probe Rod
☐ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☐ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2800

Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☐ Closed curbstop / valve / meter - still leaking ☒ Flushed & re-seated hydrant - leak stopped ☐ Flushed & re-seated hydrant - still leaking	Estimated Leak Rate GPM (Gallons Per Minute) 50 Classification ☐ Class I ☒ Class II ☒ Class III
Action Recommended ☐ Excavate & Repair ☐ Install additional access ☐ Repair / Replace ☐ Resurvey following repairs	Cover Type ☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil

11. 43

HD SUPPLY WATERWORKS UTILITY SERVICES GROUP LEAK REPORT

Leak #: 15 Client: N. Kootenai Water & Sewer Dist., Id Job #: _____

Location: 2996 Lake Forest Dr. Map #: _____

Remarks: Correlates from both directions to 2996/2994 meter, leak on service line probably at "Y" connection. Can hear leak with ears in meter box

Tech Initials: GRT Time In: 10:30 AM Time Out: 11:16 AM Total Time: 40 min Date: 10/12/08

☐ Transmission system ☒ Distribution system ☐ Irrigation system ☐ Fire suppression system

☐ Main	☐ Curbstop	☐ Service Connection	☐ Other _____
☐ Hydrant	☐ Valve	☐ Undefined	
☒ Service Line	☐ Meter	☐ Consumer Side	Site Marked Yes ☐ No ☒

Map Not To Scale

Correlations			
Scan Time	Filter	Point Ht	Footage

Equipment Used	
☒ S-30	☐ Probe Rod
☐ LD-12	☐ Thermal Camera
☐ AccuCorr	☐ Helium Detector
☒ TriCorr 2001	☐ Line Locator
☐ LC-2100	☐ LC-2500

Action Taken ☐ Closed curbstop / valve / meter - leak stopped ☐ Closed curbstop / valve / meter - still leaking ☐ Flushed & re-sealed hydrant - leak stopped ☐ Flushed & re-sealed hydrant - still leaking	Estimated Leak Rate GPM (Gallons Per Minute) 5
Action Recommended ☐ Excavate & Repair ☒ Repair / Replace ☐ Install additional access ☐ Resurvey following repairs	Classification ☐ Class I ☒ Class II ☐ Class III Cover Type ☐ Asphalt ☐ Concrete ☐ Gravel ☒ Soil