



RECEIVED

MAR 31 2009

WATER RESOURCES DEPT
SALEM, OREGON

March 30, 2009

Dwight French
Administrator of Water Rights and Adjudications
Oregon Water Resources Department
725 Summer St. NE, Suite A
Salem, Oregon 97301-1266

RE: Resuming Pending Canby Utility Water Right Application S-71072

Dear Mr. French:

Canby Utility requests that the Oregon Water Resources Department (OWRD) resume processing, and issue an Initial Review for, water right application S-71072.

Canby Utility provides water to approximately 15,100 customers in the City of Canby over a service area of approximately 3,500 acres. Canby Utility's main source of water is the Molalla River. However, the Molalla River experiences seasonal periods of low flow and is susceptible to contamination due to a railroad and highway crossing that spans the river. Moreover, additional water is needed in order to secure Canby Utility's long-term water supply and to provide for water supply/source redundancy. For these reasons, Canby Utility applied for a new water right from the Willamette River for 12.4 cubic feet per second (cfs). OWRD designated the application as S-71072. Application S-71072 is currently pending at OWRD.

Canby Utility is geographically isolated and does not have any interconnections with other water suppliers. As such, Canby Utility must ensure that it has adequate water to supply its customers from its own water sources. Groundwater is not a sustainable option due to water quality and yield constraints.

Canby Utility has spent a great deal of time and resources in its pursuit of alternative, additional water supply in a host of forums, including the Willamette Water Supply Agency (now called the Willamette River Water Coalition, or WRWC) and the Regional Water Providers Consortium Southside Transmission Project. Those efforts to obtain water in cooperation with other regional water supply groups have not been successful. Having exhausted other alternatives, Canby Utility is now returning to OWRD to request that OWRD resume processing water right application S-71072.

Canby Utility has water right permits and certificates totaling 26.17 cubic feet per second (cfs), which equates to 16.91 million gallons per day (mgd). Of that amount, 1.83 cfs is

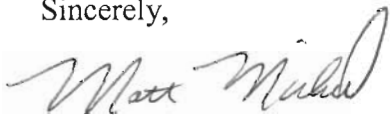
from groundwater that is generally considered back-up emergency supply because of poor water quality and yield constraints. Thus, Canby Utility has 24.34 cfs (15.72 mgd) of surface water permits and certificates from the Molalla River. Canby Utility's November 2004 Water Management and Conservation Plan indicates existing usable water rights—surface and groundwater—totaling approximately 23.3 cfs.

Canby Utility projects that it will need 28.78 cfs by the year 2040 to meet peak day demand. Water right application S-71072 would add 12.4 cfs to Canby Utility's water supply portfolio, which covers the gap in needed water supply and provides supply/source redundancy in the event of low flow, contamination, or other unforeseen circumstances associated with the Molalla River source. Canby Utility intends to develop the entire 12.4 cfs within 20 years for redundancy and for preparing to meet future demand.

Attached to this letter are updated land use forms with accompanying maps more accurately describing the proposed point of diversion, as well as a copy of the applicable deed.

I look forward to working with you on this application as it moves through the process. If you have any questions or concerns, please call me at 503-263-4320. You may also contact Adam Sussman of GSI Water Solutions, Inc. at 541-753-0745 ext. 201 or Jack Hammond of Beery, Elsner & Hammond, LLP at 503-226-7191. Adam is an authorized agent for Canby Utility with respect to Application S-71072 and Jack is Canby Utility's attorney.

Sincerely,



Matt Michel
Assistant General Manager

cc: Adam Sussman
Jack Hammond

Enclosures

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SALEM, OREGON



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building

725 Summer Street NE, Suite A

Salem, OR 97301-1266

503-986-0900

FAX 503-986-0904

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdictions where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan.

Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan.

Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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**WATER RESOURCES DEPT
SALEM, OREGON**



Oregon Water Resources Department Land Use Information Form

THIS FORM IS NOT REQUIRED IF: 1) water is to be diverted, conveyed, and/or used only on federal lands; or 2) the application is for a water-right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and all of the following apply: a) only the place of use is proposed for change, b) there are no structural changes, c) the use of water is for irrigation, and d) the use is located in an irrigation district or exclusive farm-use zone.

Applicant Name: Canby Utility, ATTN: Matt Michel
Mailing Address: 154 NW First Ave., PO Box 1070
City: Canby State: OR Zip: 97013 Day Phone: 503-266-1156

This application is related to a Measure 37 claim. ☐ Yes ☒ No

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	1/4 1/4	Tax Lot #	Plan Designation (e.g. Rural Residential/RR-5)	Water to be:	Proposed Land Use:
3S	1E	22 27	SW SW	700	SEE ATTACHED MAP	☒ Diverted ☒ Conveyed ☐ Used	Municipal
						☐ Diverted ☐ Conveyed ☐ Used	
						☐ Diverted ☐ Conveyed ☐ Used	
						☐ Diverted ☐ Conveyed ☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, or used. Clackamas County. City of Canby.

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

☒ Permit to Use or Store Water ☐ Water-Right Transfer ☐ Exchange of Water
☐ Allocation of Conserved Water ☐ Limited Water Use License
☐ Permit Amendment or Ground Water Registration Modification

Source of water: ☐ Reservoir/Pond ☐ Ground Water ☒ Surface Water (name) Willamette River

Estimated quantity of water needed: 12.4 ☒ cubic feet per second ☐ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for household(s)
☒ Municipal ☐ Quasi-municipal ☐ Instream ☐ Other

Briefly describe: Canby Utility is seeking a water right for the use of water from the Willamette River for municipal purposes.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt below and include it with the application filed with the Water Resources Department.

Receipt for Request for Land Use Information

State of Oregon
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1266

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WATER RESOURCES DEPT
SALEM, OREGON

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form.

This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

☒ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s) SECTION 309

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.)
If approvals have been obtained but all appeal periods have not ended, check "Being pursued".

Type of Land-Use Approval Needed (e.g. plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

APPROVED FOR POINT OF DIVERSION FOR OBTAINING
WATER RIGHT. ADDITIONAL DEVELOPMENT OF
PROPERTY MAY BE SUBJECT TO LAND USE
APPLICATION PURSUANT TO THE APPLICABLE
PROVISIONS OF THE CLATSOP COUNTY ZONING &
DEVELOPMENT ORDINANCES

Name:

Bill Barker

Title:

Principal Planner

Signature:

[Signature]

Phone:

503.742.4506

Date:

3/3/09

Government Entity:

CLATSOP COUNTY

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____

Staff contact: _____

Signature: _____

Phone: _____

Date: _____

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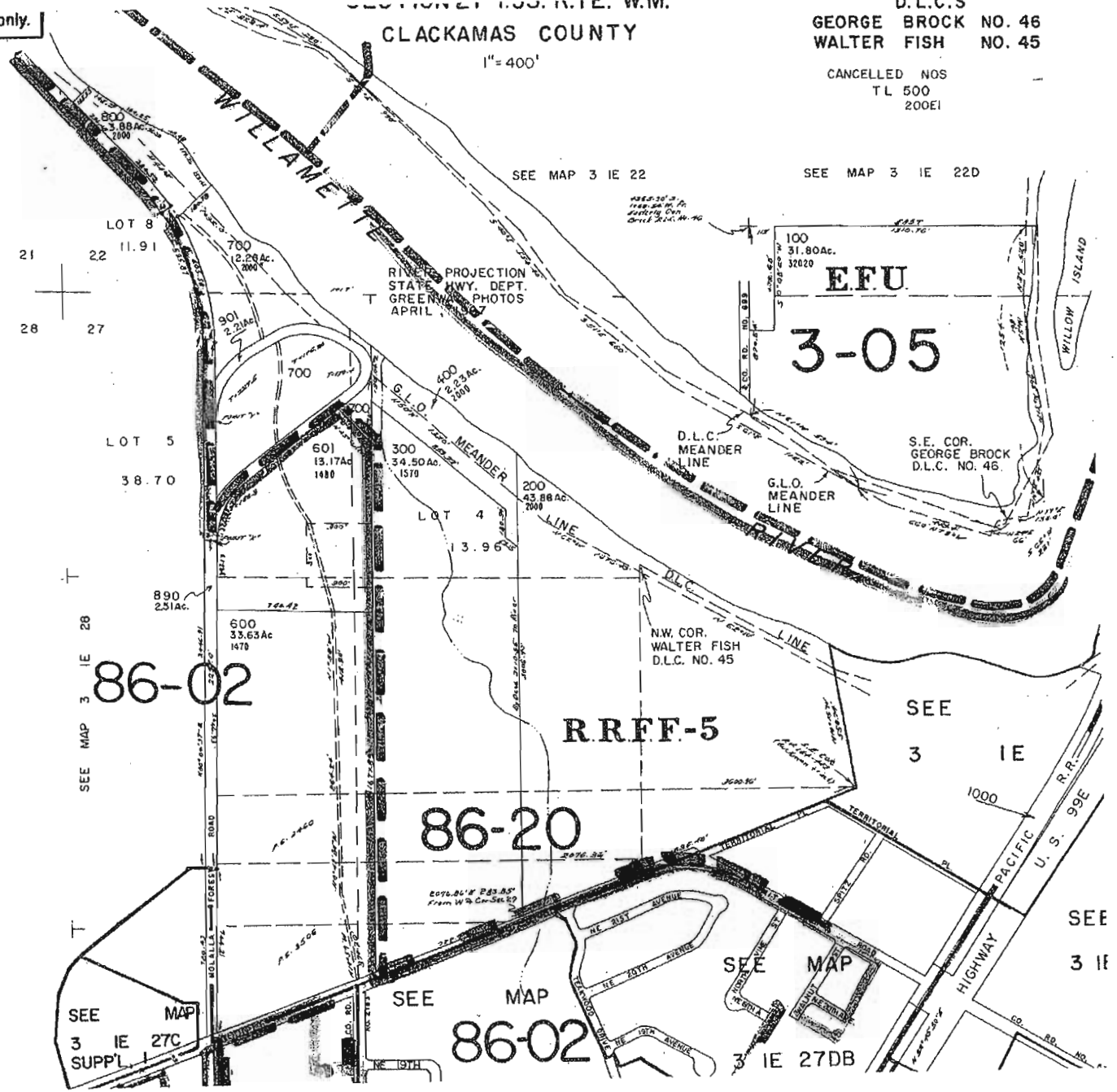
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SALEM, OREGON

ament purpose only.

SECTION 100, T.1E. W.1V.
CLACKAMAS COUNTY
1"=400'

D.L.C.'S
GEORGE BROCK NO. 46
WALTER FISH NO. 45
CANCELLED NOS
TL 500
200EI

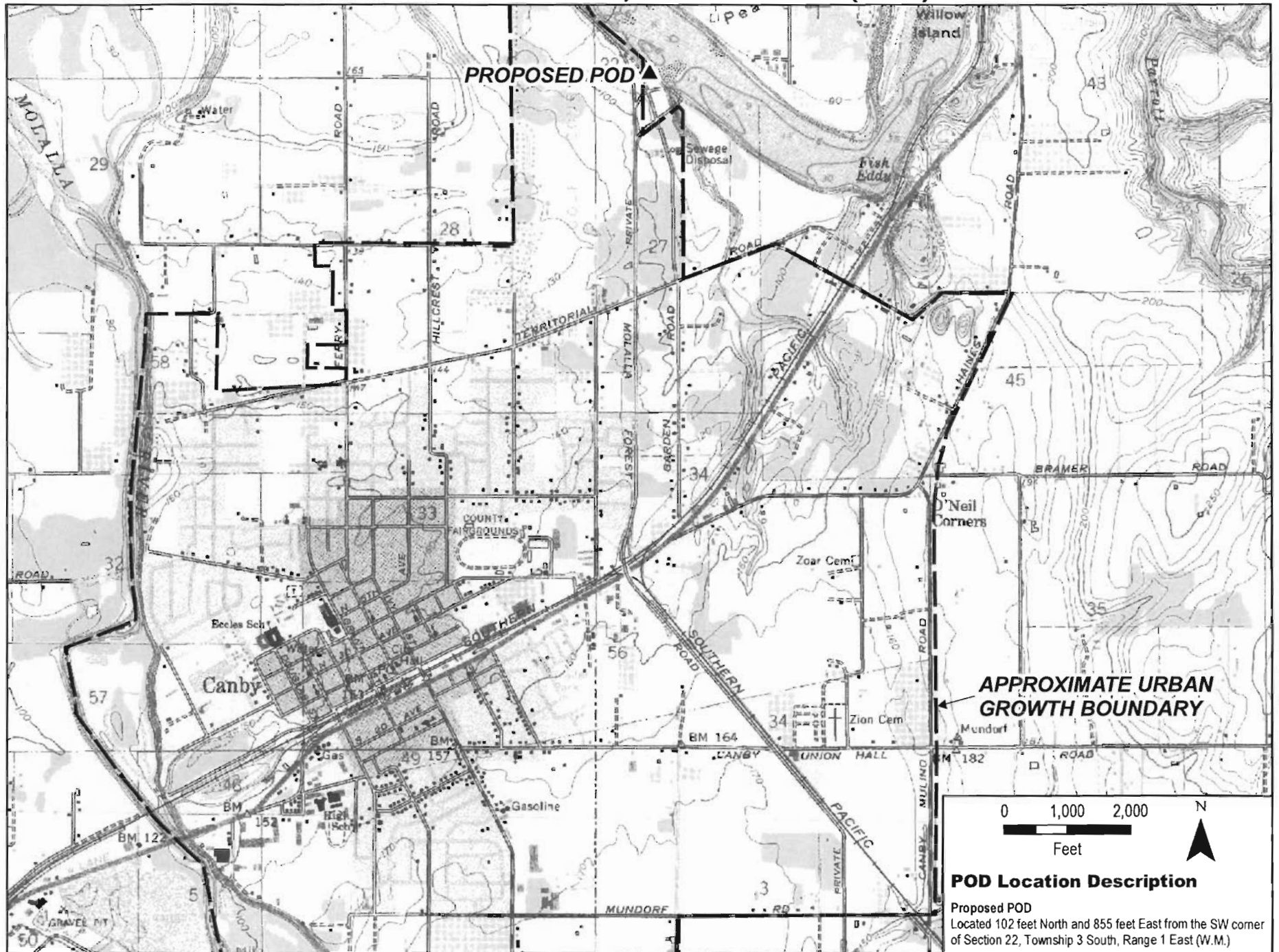


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WATER RESOURCES DEPT
SALEM, OREGON

TOWNSHIP 3 SOUTH, RANGE 1 EAST (W.M.)





Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

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Oregon Water Resources Department Land Use Information Form

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Applicant Name: _____ Canby Utility, ATTN: Matt Michel
Mailing Address: _____ 154 NW First Ave., PO Box 1070
City: _____ Canby _____ State: _____ OR _____ Zip: _____ 97013 _____ Day Phone: _____ 503-266-1156

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A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

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					SEE ATTACHED MAP	☐ Diverted ☒ Conveyed ☒ Used	Municipal
						☐ Diverted ☐ Conveyed ☐ Used	
						☐ Diverted ☐ Conveyed ☐ Used	
						☐ Diverted ☐ Conveyed ☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, or used. City of Canby, Clackamas County.

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water ☐ Water-Right Transfer ☐ Exchange of Water
☐ Allocation of Conserved Water ☐ Limited Water Use License
☐ Permit Amendment or Ground Water Registration Modification

Source of water: ☐ Reservoir/Pond ☐ Ground Water ☒ Surface Water (name) Willamette River

Estimated quantity of water needed: 12.4 ☒ cubic feet per second ☐ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☒ Municipal ☐ Quasi-municipal ☐ Instream ☐ Other _____

Briefly describe: Canby Utility is seeking a water right for the use of water from the Willamette River for municipal purposes.

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State of Oregon
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1266

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This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

☒ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): Comprehensive Plan
Public facilities services policies 1.4.2

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		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Maritilda Deas, AICP Title: Long Range Planner
Signature: [Signature] Phone: 503 266 7000 Date: 3/2/09
Government Entity: City of Canby

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

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Applicant name: _____

WATER RESOURCES DEPT
SALEM, OREGON

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

PROPOSED POD

APPROXIMATE URBAN GROWTH BOUNDARY

POD Location Description

Proposed POD
Located 102 feet North and 855 feet East from the SW corner of Section 22, Township 3 South, Range 1 East (W.M.)

Proposed POD
Located 102 feet North and 855 feet East from the SW corner
of Section 22, Township 3 South, Range 1 East (W.M.)

Clackamas County Official Records
Sherry Hall, County Clerk

2004-118731



\$41.00

00777291200401187310040047

12/29/2004 01:52:53 PM

D-D Cnt=1 Stn=4 MELISSA
\$20.00 \$11.00 \$10.00

Space above this line for Recorder's use

After recording, return to:

Until further notice, send tax statements to:

City of Canby
182 N. Holly Street
Canby, OR 97013

City of Canby
182 N Holly Street
Canby, OR 97013

QUITCLAIM DEED

WHEREAS, under an instrument dated April 30, 2002, and recorded August 1, 2002, in the deed records for Clackamas County at #2002-071334, the State of Oregon, acting by and through its State Parks and Recreation Commission, on behalf of the State Parks and Recreation Department ("Grantor"), conveyed to the City of Canby, Oregon, a public corporation ("Grantee"), the real property described in Exhibit A attached hereto (the "Property").

WHEREAS, the conveyance was made subject to the reservation of a conservation easement on and over the Property in favor of Grantor (the "Easement").

WHEREAS, Grantor agreed to execute a quitclaim deed releasing and abandoning its Easement on any portion of the Property that Grantee subsequently conveys, provided the proceeds of any such conveyance be used by Grantee to acquire adjacent property (known as the Canby Log Boom Site) for development as public park land.

WHEREAS, Grantee now intends to convey a portion of the Property, described in Exhibit B attached hereto (the "Resale Property"), and to dedicate the proceeds from such sale to the acquisition of the Canby Log Boom Site, for development as public park land.

NOW, THEREFORE, in consideration of the foregoing and for other valuable consideration the sufficiency of which is hereby acknowledged, Grantor hereby releases, quitclaims and forever abandons to Grantee all of its Easement rights and interests in the Resale Property. Grantor retains all of its Easement rights and interests in the balance of the Property.

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MAR 31 2009

WATER RESOURCES DEPT
SALEM, OREGON

CHICAGO TITLE INSURANCE COMPANY 289893

410016052-mjm

20
10
11
41
4P

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930.

DATED this 15th day of December 2004.

The State of Oregon, acting by and
through the State Parks and Recreation
Commission on behalf of the State
Parks and Recreation Department

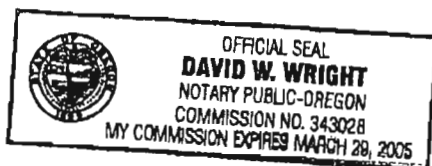
By: Tim Wood
Tim Wood
As its: Director

STATE OF OREGON)
) ss.
County of Marion)

On this 15th day of December, 2004, before me personally appeared Tim Wood, who being duly sworn stated that he is the Director of the State of Oregon, Parks and Recreation Department, and that this instrument is was voluntarily signed on behalf of the State of Oregon by authority delegated to him. Before me:

David W. Wright
Notary Public for Oregon

My Commission Expires: 3-29-05



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WATER RESOURCES DEPT
SALEM, OREGON

EXHIBIT A
Legal Description of the Property

A parcel of land lying in Sections 22 and 27, Township 3 South, Range 1 East, W.M., Clackamas County, Oregon and being that property described in those deeds to Weyerhaeuser Timber Company, recorded in Book 370, Page 197; in Book 374, Page 3; in Book 441, Page 307 and in Book 460, Page 353, Clackamas County Record of Deeds.

ALSO the land between the low and high water mark of the Willamette River lying adjacent to the property described in said Book 370, Page 197 and Book 374, Page 3.

ALSO a strip of land 50.00 feet in width upon, over and across the fractional $W\frac{1}{2}NW\frac{1}{2}$ of Section 27, Township 3 South, Range 1 East of the W.M., being 25.00 feet on each side of and measured at right angles to the following described center line:

Beginning at a point on the center line of the Oregon City - Salem Territorial Road in said Section 27, which point is North $89^{\circ} 57'$ East a distance of 635 feet and North $0^{\circ} 03'$ West a distance of 2442.6 feet from the corner common to Lots 65, 66, 72 and 73 of CANBY GARDENS in Sections 33 and 34 of said township and range; thence North $0^{\circ} 03'$ West a distance of 2305.07 feet to a point which is hereinafter called "Point X"; thence North $0^{\circ} 03'$ West a distance of 572.49 feet to a point which is hereinafter called "Point Y" and the true point of beginning of the center line herein to be described; thence continuing from "Point Y" along a 15° curve to the right through a central angle of $61^{\circ} 25'$ a distance of 409.44 feet; thence North $61^{\circ} 22'$ East a distance of 80.43 feet; thence along a 20° curve to the right through a central angle of $14^{\circ} 14'$ a distance of 71.17 feet; thence North $75^{\circ} 36'$ East a distance of 52.19 feet; thence along a 20° curve to the right through a central angle of $50^{\circ} 24'$ a distance of 252.00 feet; thence South $54^{\circ} 00'$ East a distance of 93.97 feet; thence along a 64° curve to the right through a central angle of $106^{\circ} 15'$ a distance of 166.02 feet; thence South $52^{\circ} 15'$ West a distance of 704.64 feet and thence along a 15° curve to the left through a central angle of $52^{\circ} 18'$ a distance of 348.67 feet to "Point X" and the terminus of said center line.

EXCEPTING THEREFROM any portion of the above described property lying within a strip of land 50.00 feet in width when measured at right angles to a center line commencing at "Point X" and running North $0^{\circ} 03'$ West to a point of intersection with the Northerly line of the point of curve first described from "Point Y."

ALSO EXCEPTING therefrom that property described in that deed to Crown Zellerbach Corporation, recorded in Book 495, Page 198 of Clackamas County Record of Deeds and the land between the low and high water mark of the Willamette River adjacent thereto.

ALSO EXCEPTING therefrom that property described in that deed to Farrel Johnson and Bock Soon Brunner, recorded as document number 2001-035373 of Clackamas County Record of Deeds.

SUBJECT TO reservations and easements of record, unrecorded rights which may be determined by an inspection and survey of the property and the lease rights, if any, of Gordon Andrus which were to expire January 1, 1975.

3

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EXHIBIT B
Legal Description of the Resale Property

A parcel of land being a portion of the Walter Fish Donation Land Claim No. 45, located in the Southeast one-quarter of Section 27, Township 3 South, Range 1 West, of the Willamette Meridian, in the City of Canby, County of Clackamas and State of Oregon. Said parcel of land being more particularly described as follows:

Commencing at the most Northerly corner of the Plat of "EAST CANBY GARDENS";

thence North 60°42'30" West a distance of 100.10 feet;

thence North 32°45'30" East a distance of 506.82 feet to a point on the Northwestern right-of-way line of the Southern Pacific Railroad, said point being the TRUE POINT OF BEGINNING of the parcel of land herein described;

thence North 58°44'30" West along the centerline of vacated Territorial Place, a distance of 315.57 feet to the most Southerly corner of that tract of land described as Tract 3 of that deed recorded September 2, 1952 in Book 460, Page 353, Clackamas County Deed Records;

thence North 32°45'30" East, along the Southeasterly line of said Book 460, Page 353 Tract, a distance of 492.96 feet to the most Westerly corner of that tract of land described in that deed recorded August 4, 1989 as Document No. 89-33754, Clackamas County Deed Records;

thence along the boundary line of said Document No. 89-33754 Tract the following three courses;

South 57°25'30" East a distance of 270.00 feet;

thence North 32°45'30" East a distance of 161.33 feet,

North 57°25'30" West a distance of 270.00 feet to a point on said Southeasterly line of said Book 460, Page 353 Tract;

thence along said Southwesterly line, North 32°45'30" East a distance of 20.00 feet to the most Westerly corner of that tract of land described in that deed recorded December 6, 1996 as Document No. 96-089966, Clackamas County Deed Records;

thence South 57°25'30" East along the Southwesterly line of said Document No. 96-089966 Tract and its Southeasterly extension, a distance of 315.46 feet to a point on said Northwestern right-of-way line of the Southern Pacific Railroad;

thence South 32°45'30" West, along said Northwestern right-of-way line, a distance of 667.04 feet to the true point of beginning of the parcel of land herein described.

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SALEM, OREGON**

(4)



CANBY UTILITY BOARD

154 N.W. FIRST AVENUE - P.O. BOX 1070 - CANBY, OREGON 97013
PHONE (503) 266-1156
FAX (503) 263-8621

IT PAYS TO OWN THE UTILITY THAT SERVES YOU

January 18, 1995

Bill Fujii
Planner 2 Water Rights Section
Oregon Water Resources Department
Commerce Building
158 12th Street, NE
Salem, OR 97310-0210

RECEIVED

JAN 22 1996

WATER DIVISION
SALEM, OREGON

Dear Mr. Fujii:

Enclosed is a deposit check in the amount of \$250 for the public notice as required by ORS 537.130 (4), and a completed form "M". If more information is needed, please let me know.

Sincerely,
CANBY UTILITY BOARD

Dirk Borges
General Manager

DB/dn

Enc.

Oregon Water Resources Department

Form M

RECEIVED

JAN 22 1996

This form is to be used in conjunction with applications for permits to use water for municipal purposes. WATER DIVISION, SALEM, OREGON

*Read instructions carefully. Answer all questions.
Type or print clearly in dark ink.*

1. POPULATION:

- a. What is the present population to be served? 11,300
- b. Do you serve population beyond your city limits? No
- c. According to your estimates, what will the population be 25 years from now? (Please cite source) Yr. 2020 30,725 Per City's Projected 4.25% Growth Rate
Yr. 2020 24,200 Per Metro Projections

2. WATER NEEDS:

- a. What are your current water needs? 4.0 mgd Peak Day
- b. What will your water needs be 25 years from now? 2020 = 11 mgd Per City Population
2020 = 8.7 mgd Per Metro population
- c. List your current source(s) of water by water body, amount of use and water right permit (e.g., Crystal Creek, .01 cfs, Permit S-12345). See Attached List
- d. Explain how your existing water use permits and water rights will assist in meeting your water use needs (i.e., Have you identified any of your water use permits or water rights that cannot or will not be used to meet future needs?). Please explain. Because of low summertime flows, the maximum utilization of existing permits is somewhat problematic.

3. CONSERVATION MEASURES: Please describe what you propose to do to prevent waste of water (e.g., metering, weekly measurements, etc.).

See Attached List on Letter Dated November 6, 1995.

Please include a copy of your water facilities plan with your application.

Enclosed.

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WATER
SALEM, OREGON -PT.

Exhibit A
Water Source Options Study - Water Rights Inventory
CANBY UTILITY BOARD

<u>Source</u>	<u>Water Right #</u>	<u>Priority</u>	<u>Authorized Quantity</u>	
			<u>CFS</u>	<u>MGD</u>
Infilt. System <u>Comment:</u> This source and the infiltration trench are known as the "Springs Gallery."	G-4784	10/16/69	1.50	0.97
Infilt. Tr. 1	GR-266	12/31/44	1.78	1.15
Well No. 10 <u>Comment:</u> This source is interconnected with the Springs Gallery	G-7013	10/11/76	0.61	0.39
Spring <u>Comment:</u> This Spring and the following Spring were original water sources for the city. They are interconnected with the Springs Gallery.	P-11011 C-10771	08/16/33	0.25	0.16
Spring	P-11197 C-10776	02/10/34	0.20	0.13
Molalla River <u>Comment:</u> This and the following source are connected to the water treatment plant by a 16" raw water transmission line.	P-35453	12/22/70	5.00	3.23
Molalla River	P-35453	07/31/70	5.00	3.23
Molalla River <u>Comment:</u> Principal water source with intake located approximately 8' below the original river bottom.	P-46199	10/20/80	10.00	6.46
Well <u>Comment:</u> Known as the Cedar Street Well. Not presently used.	G-5101	07/14/70	0.89	0.58
Flowing Well #2 <u>Comment:</u> Located adjacent to Springs Gallery, highly sulfuric content. Not presently operational.	GR-266	12/31/38	0.44	0.20
Pumping Well #3 <u>Comment:</u> High sulfuric content. Not presently operational.	GR-266	12/31/27	0.50	0.32
	Subtotal groundwater		5.72	3.70
	Subtotal surface water		20.45	13.21
	Total		26.17	16.91



CANBY UTILITY BOARD

154 N.W. FIRST AVENUE - P.O. BOX 1070 - CANBY, OREGON 97013
PHONE (503) 266-1156
FAX (503) 263-8621

IT PAYS TO OWN THE UTILITY THAT SERVES YOU

November 6, 1995

State of Oregon
Water Resources Department
3850 Portland Road, NE
Salem, OR 97310

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WATER RESOURCES
SALEM, OREGON

Dear Sir:

Enclosed are two applications for extension of time for water permit numbers 35453 and 46199. Canby Utility Board (CUB) is requesting the terms of both permits be extended to October 1, 2000.

As you are aware, Oregon Administrative Rules (OAR) 690-410-060 requires water suppliers to prepare water conservation management plans. These rules also require us to notify you of our plans to assure a long-term water supply.

In the past five years, CUB has implemented the following conservation steps or programs to comply with OAR 690-410-060.

1. CUB periodically includes water conservation flyers with the monthly billings.
2. CUB's Customer Service Representative gave presentations, regarding water conservation, to elementary school children. Book covers, maps, contests and tours of the water treatment plant facility were included.
3. Implemented the "PLUS" program. The "PLUS" program offers a 20 percent rebate of the systems development charge to new home builders which limited the lawn size to 20 percent or 1500 square feet of total lot size, whichever is less. Specifications for non-turfed areas and underground irrigation systems also applied. The rebate comes in two stages: 10 percent after approval of the landscape plan and implementation has passed inspection, and 10 percent after a two year follow-up.
4. CUB eliminated the declining block of summer water rates on April 28, 1992.
5. Resolution Number 124 was adopted on July 28, 1992 establishing a regulatory process for dealing with periods of water shortages.
6. CUB initiated a showerhead distribution and collection program in September 1992. The goal of the effort was to get as many Canby homes and businesses as possible to install water saving showerheads and faucet aerators. The program was timed to take advantage of community awareness about water shortages and used water efficiency as one of the prime motivators to get people involved. An overall installation rate of 51 percent was achieved.

CANBY UTILITY BOARD
WATER RESOURCES DEPARTMENT
NOVEMBER 6, 1995
PAGE TWO

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WATER RESOURCES
SALEM, OREGON

7. High demand periods and load growth has forced Cub to reduce the psi rate from 70 psi to 66 psi since March 1993.
8. A leak detection survey of 13 CUB water mains (approximately six miles of distribution lines) was completed in March 1993. The results of the survey are used to determine which water mains have substantial leaks, which contributes to unaccounted for water loss. Several leaks of CUB's water distribution lines were detected, and have been or are scheduled to be replaced or repaired.

CUB's plans to assure a long-term water supply include:

1. Developed a comprehensive water master plan in January 1993 summarizing existing and future water system improvements. The water master plan included a 20 year projection.
2. Due to increased load, CUB is expanding our current water treatment plant capacity from 4 million gallons per day (mgd) to 6 mgd. The expansion is scheduled for completion in May 1996.
3. CUB is currently researching the possibility of obtaining alternate water sources (i.e. wells).
4. CUB filed application number 71072 with the Water Resources Department proposing municipal use of 12.4 cfs of water from the Willamette River.
5. CUB is one of the Regional Water Providers participating in the Regional Water Supply Plan developing a preliminary plan that outlines information and choices on how to meet future needs.

I hope the measures we have taken, and are continuing to take, complies with OAR 690-410-060 requirements. If more information is needed, please call me at (503) 266-1156.

Sincerely,
CANBY UTILITY BOARD



Dirk Borges
General Manager

DB/dn

Enc (2)

CANBY UTILITY BOARD
Canby, Oregon

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JAN 22 1996

WATER RESOURCES DIVISION
SALEM, OREGON

WATER SYSTEM MASTER PLANNING SYSTEM DEVELOPMENT CHARGE METHODOLOGY

January, 1993



CURRAN-McLEOD, INC., Consulting Engineers
6655 SW Hampton Street, Suite 210
Portland, OR 97223
(503) 684-3478

CANBY UTILITY BOARD

WATER SYSTEM MASTER PLANNING

SYSTEM DEVELOPMENT CHARGE METHODOLOGY

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CANBY UTILITY BOARD

WATER SYSTEM MASTER PLANNING

SYSTEM DEVELOPMENT CHARGE METHODOLOGY

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WATER SYSTEM MASTER PLANNING AND SYSTEM DEVELOPMENT CHARGE METHODOLOGY

CANBY UTILITY BOARD Canby, Oregon

INTRODUCTION

In September of 1992, Curran-McLeod, Inc. Consulting Engineers was retained by the Canby Utility Board to prepare a Water System Master Planning document to summarize existing and required water system improvements. The planning area is the current City of Canby, Urban Growth Boundary (UGB) as shown on the accompanying plate of large diameter pipelines. Current growth projections for a planning period of 20 years anticipate an ultimate population of 20,000 within the study area.

The City of Canby has experienced renewed residential development activity that has placed an increased burden on existing facilities. In order to equitably fund required water system improvements, it is important to frequently review and update capital planning and the System Development Charges (SDC).

Canby Utility Board originally implemented an SDC of \$500.00 per single family residential meter in 1985. This fee has been increased twice; in early 1990 to \$600.00 and again in late 1990 to \$840.00. These earlier SDC fees represented only a portion of the actual impact of an additional service on the system, and were reduced to minimize the burden on new construction. Total estimated costs exceeded \$1,480.00 per meter at the time of the evaluation in 1990.

The following text identifies the existing water system facilities, system capacities and required improvements to meet the demands of all current and future users within the UGB. The text is generally broken into source, treatment, storage and distribution system.

Following the capital facilities evaluation is the derivation of the System Development Charges and explanation of methodology.

DEMAND AND DWELLING UNIT EQUIVALENT EVALUATIONS

The 1984 Comprehensive Plan for the City of Canby estimated population growth rates and ultimate capacity of the Urban Growth Boundary. In the years since, the City has grown more slowly leading to revised projections. Currently, the City is projecting a 4% growth rate for the next 20 years which will result in complete buildout of the UGB with a 20 year population of 20,000 people. The 1992 population is estimated at 9,730 people.

CUB records, billings and accounting are based on service connections as opposed to population. To generate a common data base, this analysis uses a Dwelling Unit

Equivalent (DUE) to evaluate actual metered demands over the period of September 1991 through August 1992. A dwelling unit equivalent is, by definition, a demand on the water system equal to the average monthly demand from a single family 3/4" x 3/4" (nominal 3/4") metered service.

Canby Utility Board maintains extensive records on water system demand. Consumption can be inventoried by type of user, single family or multi-family residential; commercial or industrial; size of meter; 3/4" through 4" or month of the year. These records allow extensive analysis to determine an equitable method of cost assessment and accurate impact assessments. Appendix "C" contains the evaluation summaries of these data. The recommendation of this evaluation is to assess DUEs based upon the annual average monthly consumption for each size and type of meter.

The following table shows actual consumption averages for each size and type of water service within the Canby Utility Board system for the period of September 1991 through August 1992. The information is separated into single family, multi-family, commercial and industrial and shows the ratio of average consumption expressed as a DUE to the average single family residential service:

TABLE 1. 1991-1992 ACTUAL DEMAND AND DWELLING UNIT EQUIVALENT (D.U.E.) EVALUATION

Meter Size	Single Family (CF/MO)	DUE per Housing Unit	Multi-family Apartment Mobile Home	DUE/Meter (DUE/Unit)	Comm. Service Demand CF/MO	DUE per Meter	Indust. Service Demand CF/MO	DUE Per Meter
3/4"	1,407	1.00	2,300 CF/MO (916/unit)	1.63 (0.65)	1,076	0.76	---	---
1"	1,907	1.36	3,265 CF/MO (943/unit)	2.32 (0.67)	3,722	2.65	1,804	1.28
1 1/2"	---	---	12,323 CF/MO (1,302/unit)	8.76 (0.93)	4,498	3.20	16,235	11.54
2"	---	---	11,951 CF/MO (723/unit)	8.49 (0.51)	14,539	10.33	6,781	4.82
3"	---	---	45,169 CF/MO (1,045/unit)	32.10 (0.74)	36,189	25.72	---	---
4"	---	---	61,921 CF/MO (1,155/unit)	44.01 (0.82)	51,764	36.79	89,333	63.49

For ease of calculations, 1,400 CF/MO was adopted as the standard of comparison for DUE determinations.

Traditionally, Dwelling Unit Equivalents for larger meters were determined by the capacity of the meter installed to provide service. In the Canby Utility Board system, the ratios of larger size meter capacities do not accurately reflect the actual consumption patterns for industrial and commercial services.

Using the data from the period of September 1991 through August 1992, the following table shows the comparison of meter capacity ratios versus actual demand ratios for each size of industrial and commercial meter:

TABLE 2. METER CAPACITY vs. ACTUAL DEMANDS

Meter Size	Capacity Ratios		Commercial Services	Industrial Services	Proposed D.U.E.
	Meter Capacity (GPM)	Capacity Based Ratio	Consumption Based Ratio*	Consumption Based Ratio*	
3/4"	20	1	0.76	---	1
1"	50	2.5	2.65	1.28	2
1 1/2"	100	5	3.20	11.54	5
2"	160	8	10.33	4.82	10
3"	320	16	25.72	---	25
4"	500	25	36.79	63.49	35
* Based upon Residential Average Flow of 1,400 CF/MO.					

From this analysis, it is apparent that DUEs based on actual consumption provide a more accurate measure of system impacts than those based on meter capacity.

To simplify implementation of the residential SDC, the assessment is based on housing units with one exception. A distinction can be noted in the demand attributable to 3/4" and 1" single family connections. The larger meter averaged 1.36 times the demand of the smaller in the period of 1991-92. The DUE is made consistent by applying a 1.33 factor, based upon meter size, for 1" single family residential connections.

Multi-family, apartments and mobile homes are assessed on the number of distinct housing units independent of meter size. As a group of consumers, the per unit demand for multi-family, apartments and mobile homes was less than a typical single family service by approximately 30%. A 30% reduction was incorporated into the DUE assignments for all services to multi-family, apartments and mobile homes.

One final adjustment was to acknowledge the demand reduction associated with implementation of CUB's "Plus" conservation program. Certification in this program is estimated to result in a 20-25% reduction in peak demands primarily from irrigation practices. A reduced DUE factor is applied to these homes.

The following table summarizes the recommended dwelling unit equivalents for each size and type of water service, with anticipated average monthly demands.

TABLE 3. RECOMMENDED DEMAND AND DWELLING UNIT EQUIVALENT (DUE) FACTORS

Meter Size	Single Family CF/MO ("Plus")	DUE per Housing Unit	Multi-family Apartments Mobile Home CF/MO/Unit	DUE per Housing Unit	Commer. Service Demand CF/MO	DUE per Meter	Indust. Service Demand CF/MO	DUE per Meter
3/4"	1,400 (1,060)	1.00 (0.8)*	1,000	0.7	1,000	1.00	1,000	1.00
1"	1,900 (1,400)	1.33 (1.0)*	1,000	0.7	2,800	2.00	2,800	2.00
1 1/2"	**	---	1,000	0.7	7,000	5.00	7,000	5.00
2"	**	---	1,000	0.7	14,000	10.00	14,000	10.00
3"	**	---	1,000	0.7	35,000	25.00	35,000	25.00
4"	**	---	1,000	0.7	49,000	35.00	49,000	35.00

* DUE Factors for "Plus" Conservation Program Certified Homes.

** See Commercial DUE Factors for Single Family Large Diameter Meters.

Using the proposed DUE factors for all but multi-family, apartments and mobile homes, the following table shows the actual DUE inventory as of September 1992 totalling 3,750.

Multi-family, apartments and mobile homes are inventoried using a 0.7 factor per unit. Future inventories should be based upon the number of units times the DUE factor of 0.7 DUE per unit. Periodically, a check of the 0.7 DUE factor should be made to verify that consumption is approximately 70% of a single family residence. Based upon the number of units, a check of 1991-92 showed the actual demands to be within 2% of predicted.

TABLE 4. 1992 DUE INVENTORY

Type	Size	Number of Meters	Consumption Ratio Factor	DUE
Single Family Residential	¾"	2298	1.0	2298
	1"	28	1.3	37
Multi-Family Residential	NA	1,075 Units	0.7	752
Commercial	¾"	202	1.0	202
	1"	32	2	64
	1½"	11	5	55
	2"	13	10	130
	3"	2	25	50
	4"	3	35	105
Industrial	¾"	0	1	0
	1"	1	2	2
	1½"	2	5	10
	2"	1	10	10
	3"	0	25	0
	4"	1	35	35
Total Meters		2,715	Total DUE 3,750	

Using all of the information generated, the following table shows population projections at 4% per year, projected Dwelling Unit Equivalents, projected average daily plant production based upon 1,400 CF/MO per DUE and peak daily demand based upon 933 gpd per DUE.

TABLE 5. PROJECTED DEMANDS

Approximate Year	Estimated Population	Dwelling Unit Equivalent	Average Daily Demand (MGD)	Peak Daily Demand (MGD)
1992	9,370	3,750	1.31	3.50
1997	11,406	4,562	1.60	4.26
2001	13,877	5,551	1.94	5.18
2007	16,884	6,754	2.36	6.30
2012	20,542	8,217	2.88	7.67

Demands on the water system are dependent upon the DUE loading. Due to the fluctuation of population growth with time, all criteria for establishing a target date to implement capital improvements should be related to DUE loading, independent of year. By monitoring actual DUE, the Board can be aware of system deficiencies well in advance in order to properly plan for needed improvements.

The previous table identifies many useful criteria. First, the DUE column gives an approximate number of equivalent connections for the projected 20 year period. This number can be useful for rate evaluations and projections. The average daily demand also is an accounting guide to assist in projecting revenues.

Peak daily demand is the primary engineering criterion for sizing the source facilities, treatment plant capacity, and with the addition of fire flow, the storage requirements.

Storage requirements are comprised of a fire protection component and domestic demand component. The domestic component is typically one peak day demand. Fire protection is based on the largest structures within the fire protection system. The schools and shopping complexes in Canby require an estimated 5,000 gpm supply for a duration of 5 hours. Applying this to the current DUE adds 400 gallons per connection. Assuming this volume will escalate proportionally as population increases, total required storage is estimated to be the peak domestic demand of 933 gallons per DUE, plus 400 gallons fire protection, for a total of 1,333 gallons per DUE.

The following graph shows required storage versus Dwelling Unit Equivalent and should be used as a general guide for reservoir planning.

EXISTING WATER SYSTEM FACILITIES

Source of Supply:

Existing source facilities consist primarily of the Molalla River Infiltration Gallery with contributions from several secondary sources. The River Infiltration Gallery was constructed in 1979-80 with a pumping capacity of nearly 6,000 gallons per minute or 8 million gallons per day. This facility has mechanical piping in place to accommodate installation of a third pump which will provide redundancy when the system requires consistent production of 8 MGD.

Secondary sources include the Springs Gallery constructed in the 1952 with a seasonal capacity of 1,000 gpm in the winter months, the River intake pump installed in the early 1970's again with a seasonal capacity of 1,000 gpm, and finally, well #10 constructed in the 1970's with a 250 gpm capacity. All source improvements are located in the low elevation lands west of the existing Water Treatment Plant site, and collect water from the shallow groundwater and springs adjacent to the Molalla River.

The River Infiltration Gallery has adequate year round capacity to supply the entire Urban Growth Boundary. This pumping station will require the addition of one pump concurrent with expansion of the treatment facilities to assure adequate redundancy is available. The secondary sources have not been included in the asset inventory or SDC reimbursement fee due to their seasonal variations and relatively low capital cost.

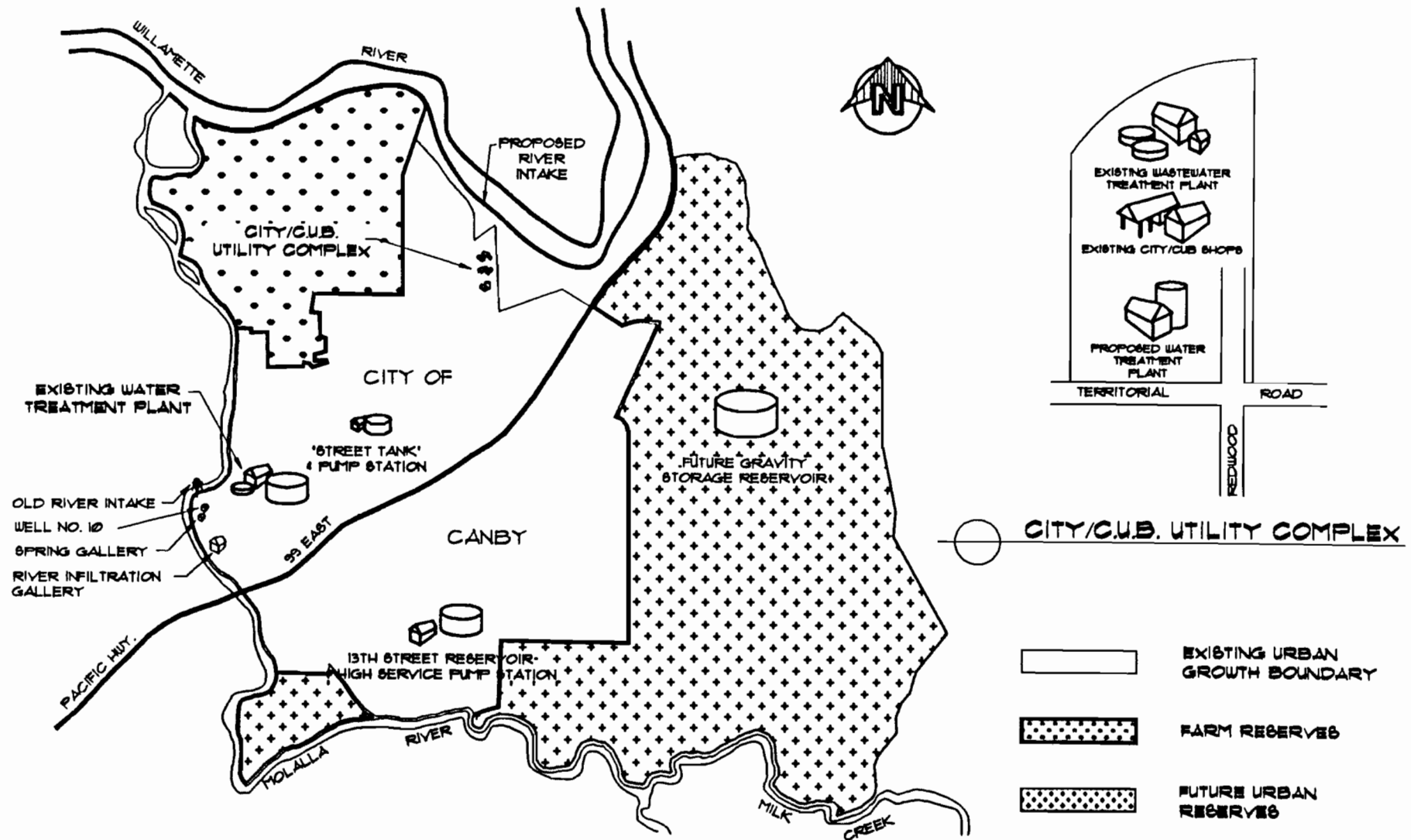
Plate 1 on the following page shows an approximate location of each existing source and the current service area.

Treatment Facilities:

The Water Treatment Plant has a nominal capacity of 4 million gallons per day. This treatment facility consists of a steel reactor tank for chemical flocculation, eight modular steel filter units of 350 gpm capacity each, multiple pumping systems, building improvements and sitework. This site is adequate to accommodate an expansion to a capacity sufficient to serve the entire Urban Growth Boundary.

The Treatment Plant was originally constructed with a 2 million gallon per day capacity in 1971-72. The facility was doubled in size in 1982 to its current 4 million gallon per day capacity.

CANBY UTILITY BOARD WATER SERVICE AREA



Reservoir Storage:

As schematically shown on Plate 1, the water storage facilities include three ground level structures totaling 4.9 million gallons, with pumping equipment to pressurize the system.

A 2.4 million gallon steel reservoir functions as a clearwell at the Water Treatment Plant site. Water is treated at the plant, stored in the clearwell and then pumped into the distribution system to satisfy instantaneous demands. This reservoir was constructed in 1972 with the original plant improvements.

Two independent reservoirs with pumping facilities are located within the distribution system. The Street Tank is a 500,000 gallon steel structure with variable speed pumping equipment, constructed in 1963 on North Fourth Avenue. A 2.0 million gallon wire wound concrete reservoir was constructed on South 13th Avenue in 1983 with fixed speed high service pumps, primarily for fire protection.

Distribution System:

The accompanying large diameter Distribution System Master Plan shows all existing distribution piping 10" and larger throughout the entire system. Each pipeline is listed on the asset inventory, with the decade of construction, on sheets 4, 5 and 6 of Appendix "A". All existing lines were assumed to have a 50 year service life.

FUTURE CAPITAL IMPROVEMENT REQUIREMENTS

The capacity of each component of the water system is inventoried in Appendix "A". Additional capacity will be required in treatment, storage and distribution to meet maximum demands within the Urban Growth Boundary. The following sections identify the capital improvements required to meet these demands.

Future Source Improvements:

As discussed earlier, no source improvements are required to meet demands within the Urban Growth Boundary. The existing River Infiltration Gallery has adequate capacity with only minor modifications required.

Although not a substantial capital expense, when demands increase to the point of requiring the output of both River pumps, it will be important to install the third pump for redundancy. Due to the higher piping pressure losses, some modification of the existing pump impellers may also be warranted.

Beyond the Urban Growth Boundary as development expands into the surrounding areas, valuable potential sources of water may be found in existing wells or groundwater supplies. In addition, if rights are secured, an assured supply is available in the Willamette River as a backup measure to all other potential sources.

Long term planning is required for source improvements to assure an adequate source of supply. The planning window for source should be well beyond development of the current UGB, and should be projected for 40-50 years. With adequate source facilities, planning and development of all other phases is assured.

The graph on the following page shows a projected long term source requirements until the year 2040. This long term plan anticipates development of all existing sources and projects a need for 12.4 cfs from the Willamette River. The existing water rights for the Springs Gallery (3.73 cfs), the old Molalla River intake (10 cfs), well Number 10 (0.61 cfs) and the Molalla River Infiltration Gallery (10 cfs) are graphically shown to satisfy the City's demands until approximately year 2030. Existing rights must be consolidated or transferred to permit full utilization of the new River Infiltration Gallery when demands dictate.

Future Treatment Facilities:

The capacity analysis indicates an increase of 3.65 MGD will be required to satisfy demands when the UGB is developed. This additional capacity can be built into the existing water treatment plant site.

The raw water supply line will be adequate with some modifications anticipated on the pump performance.

The reactor tank has a volume of 160,000 gallons with multi-chambered basins. For flocculation, a typical design detention range is 10 to 20 minutes. With a volume of 160,000 gallons, the reactor tank will perform acceptably at flows up to 8,000 gpm or approximately 12 MGD.

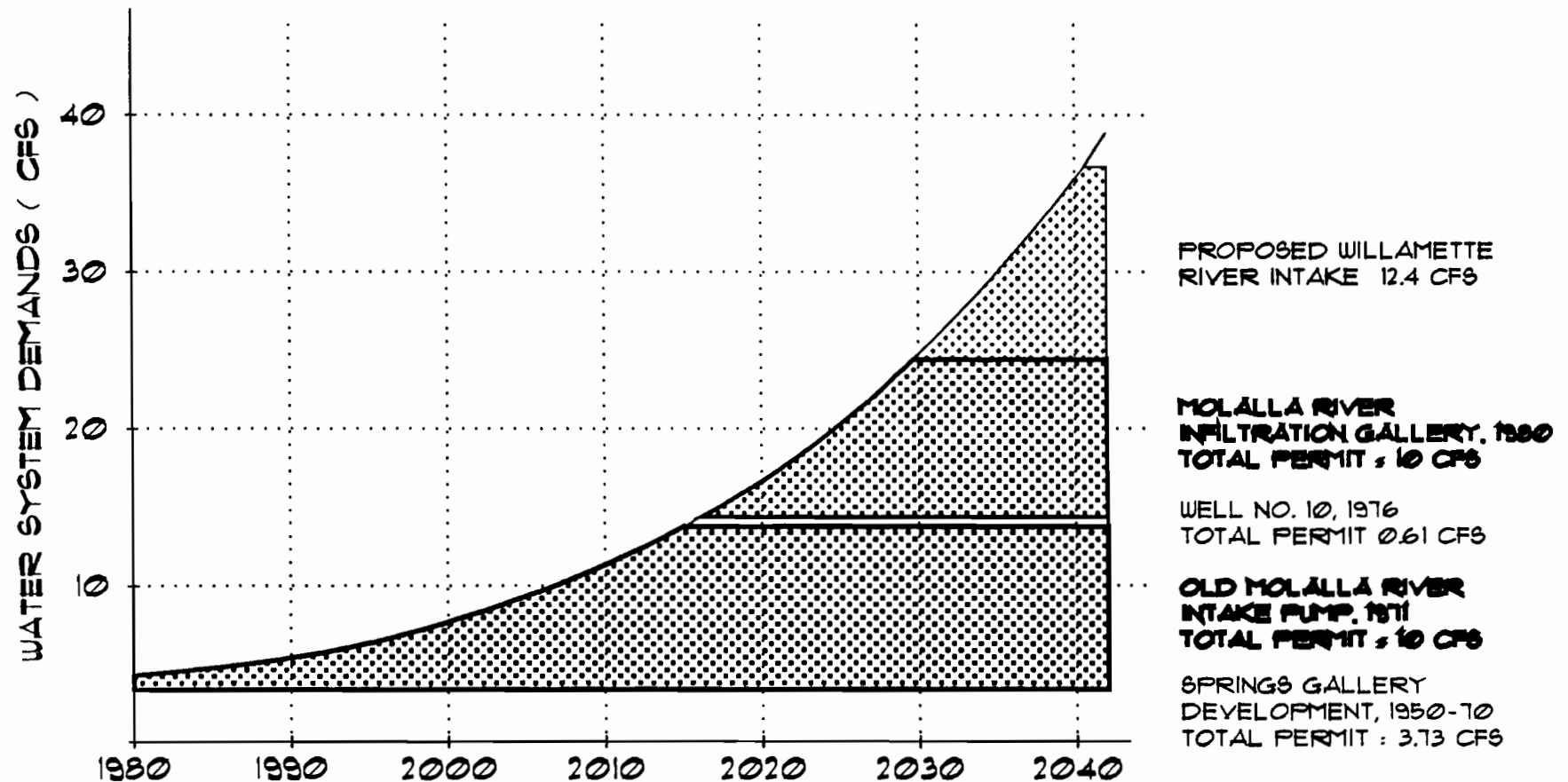
Expansion of the filter capacity will require additional sitework, building expansion, new control centers and additional steel modular treatment units. Adequate land is available between the existing filter building and clearwell to permit expansion on site.

The cost of these improvements is estimated as shown below. At the time of improvement the scope of work should be an even increment of 1 or 2 MGD, which will increase this estimate slightly.

Sitework	\$ 100,000
Filter Building, 2440 SF	122,000
Control Building Modifications	150,000
Treatment Units & Appurtenances	500,000
Mechanical Piping, Pumps and Controls	<u>200,000</u>
	\$ 1,072,000
Engineering & Support Services	<u>268,000</u>
TOTAL ESTIMATED COST	<u>\$ 1,340,000</u>

CANBY UTILITY BOARD

WATER SYSTEM DEMANDS



WATER SYSTEM DEMAND VS. YEAR

BASED UPON 360 GPCD AND 4% GROWTH RATE
FROM CITY OF CANBY COMPREHENSIVE PLAN 1984

Long term planning, beyond development of the UGB, will require additional treatment facilities at other source locations. Although not high quality raw water, the Willamette River provides an assured source of supply and a tentative treatment facility site is shown on Plate 2.

Future Storage Systems:

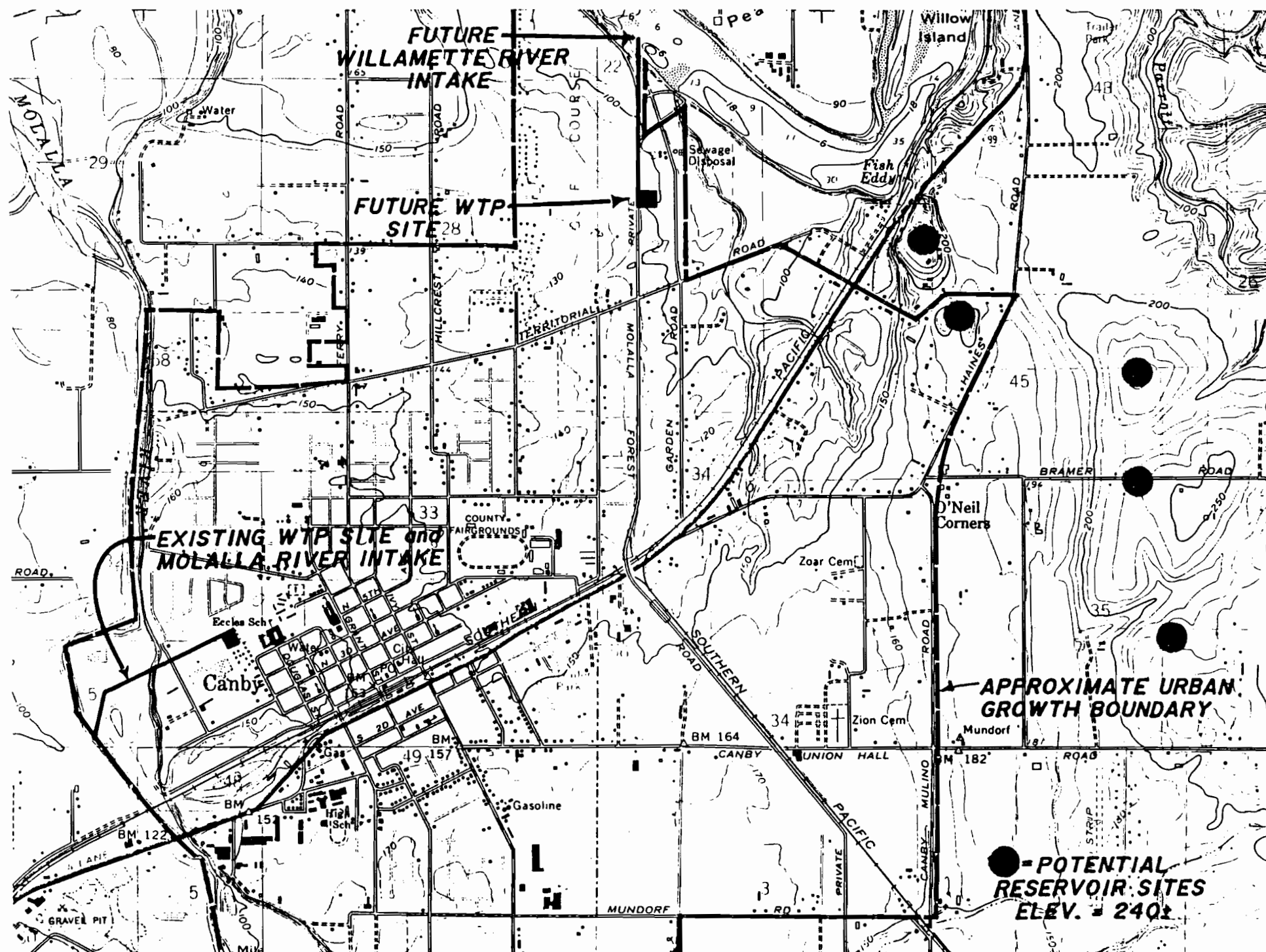
To meet the storage requirements of the fully developed UGB the Canby Utility Board should anticipate the addition of approximately 6 million gallons of capacity. This volume can be stored in one facility if adequate distribution piping is in place.

The City of Canby is growing predominantly to the South and East. In this direction, the terrain becomes hilly with elevations climbing 120 to 150 feet above the water plant site. With an increase in ground elevation of 150 feet, a gravity storage reservoir becomes practical. This can sustain system pressures without the use of jockey pumps.

Plate 2. shows several potential locations for future storage improvements inside or near the current UGB. The storage improvements are projected to include a 6 MG gravity reservoir with approximately 2,500 LF of interconnecting piping. This reservoir will be located in the far Southeast quadrant of the UGB and interconnected with the existing system through the proposed 14" transmission loop.

Total cost of needed improvements is estimated as:

Sitework	\$ 100,000
Off-site Piping 2,500 LF	135,000
6.0 MG Reservoir @ \$0.30/Gal	1,800,000
Building Improvements	<u>25,000</u>
	\$ 2,060,000
Engineering and Support	<u>410,000</u>
TOTAL ESTIMATED COST	<u>\$ 2,470,000</u>



Future Distribution System Improvements:

The drawing accompanying this analysis shows the location of proposed large diameter piping to provide the backbone of the distribution system throughout the Urban Growth Boundary.

All piping improvement costs are estimated based upon the cost of a public works contract bid, within the requirements of ORS 279. This requires prevailing wage rates and special accounting practices to safeguard the expenditure of public funds. A cost estimate was prepared for each size of mainline, 6" and 8" through 14" as follows:

6" and 8" Pipelines

Excavation, Bedding & Backfill, LF	\$ 8.00
Pipeline Material, LF	8.00
Fittings & Services	2.00
Surface Restoration	3.00
Engineering & Support Services	<u>5.00</u>
Cost per Lineal Foot	\$ 26.00

10" Pipelines

Excavation, Bedding & Backfill, LF	\$ 10.00
Pipeline Material, LF	11.00
Fittings & Services	2.00
Surface Restoration	3.00
Engineering & Support Services	<u>6.00</u>
Cost per Lineal Foot	\$ 32.00

12" Pipelines

Excavation, Bedding & Backfill, LF	\$ 12.00
Pipeline Material, LF	13.00
Fittings & Services	3.00
Surface Restoration	4.00
Engineering & Support Services	<u>7.00</u>
Cost per Lineal Foot	\$ 39.00

14" Pipelines

Excavation, Bedding & Backfill, LF	\$ 14.00
Pipeline Material, LF	17.00
Fittings & Services	4.00
Surface Restoration	5.00
Engineering & Support Services	<u>8.00</u>
Cost per Lineal Foot	\$ 48.00

16" Pipelines

Excavation, Bedding & Backfill, LF	\$ 16.00
Pipeline Material, LF	18.00
Fittings & Services	5.00
Surface Restoration	6.00
Engineering & Support Services	<u>9.00</u>
Cost per Lineal Foot	\$ 54.00

Sheets 4, 5 and 6 or Appendix "A" list each pipeline capital improvement with total estimated cost.

SYSTEM DEVELOPMENT CHARGE METHODOLOGY

The goal of this current SDC evaluation is to update the methodology and asset inventory so that cost impacts of future services can be identified and equitably assessed. This evaluation incorporates reimbursement and improvement fees for each component of the water system. In theory, the SDC should always be predominantly a reimbursement fee indicating that capital improvements are keeping pace with development pressures.

There are several assumptions behind the development of this SDC Methodology:

1. The rate of inflation is assumed to be equal to the cost of debt service. This impacts the evaluation required to equate present worth costs with original construction costs. Using this assumption, a current replacement cost estimate becomes the basis of the cost used for all reimbursement fee calculations.
2. The interest earned on invested funds is also assumed to be approximately equal to the rate of inflation of construction costs.
3. All cost estimates, consumption estimates, capacity estimates, etc., are based upon current data generated in 1991-92, and should be reviewed periodically to identify trends that may effect system impacts or cost equities.
4. Distribution system improvements are assumed to have an oversize component on all lines 10" and larger. Existing 8" and smaller lines are committed to on-site service and do not contribute to the overall transmission and distribution system.
5. All future improvements are assumed to be financed through various funding vehicles independent of SDC reserve balances. The timing of needed improvements then will not be impacted by the availability of SDC funding. Conversely, the SDC schedules also are unaffected by the cash flow requirements of capital improvements.
6. Finally, the actual SDC derived is rounded to the nearest \$100 which is assumed to mediate any approximations and to accommodate any alternative analysis.

Using the Dwelling Unit Equivalents determined by analyses of the consumption data, each component of the water system was evaluated for remaining capacity and required additional capacity to serve the UGB.

Reimbursement fees were determined based upon the value or cost of the facility, the committed capacity to serve the existing DUE's, the value of the unused capacity and the number of DUEs the remaining capacity could serve.

Improvement fees were based upon the cost of capital improvements required to serve the incremental number of DUEs at buildout of the Urban Growth Boundary.

Water Source Facilities:

Based upon the average demands, the source improvements have capacity to serve beyond the number of DUEs at buildout of the Urban Growth Boundary.

As shown on page 1 of Appendix "A":

Reimbursement Fee:

Value of Source Improvements	\$ 1,055,000	
Total Capacity	8,575	DUE
Committed Capacity	3,750	DUE
Remaining Capacity	4,825	DUE
Value of Uncommitted Capacity (56.3%)	\$ 594,000	
Reimbursement Fee per DUE	\$ 123	

Improvement Fee:

Cost of Required Capital Improvements	NA	
Additional DUE's to Buildout	0	DUE
Improvement Fee per DUE	NA	

Treatment Facilities:

The Treatment Facility inventory indicated a small portion of outstanding capacity. Nearly doubling of the plant is required to serve the complete UGB.

As shown on page 2 of Appendix "A":

Reimbursement Fee:

Value of Capital Improvements	\$ 1,390,000	
Total System Capacity	4,290	DUE
Committed Capacity	3,750	DUE
Remaining Capacity	540	DUE
Value of Uncommitted Capacity (12.6%)	\$ 175,140	
Reimbursement Fee per DUE	\$ 324	

Improvement Fee:

Cost of Required Capital Improvements	\$ 1,340,000	
Additional DUE's to Buildout	3,910	DUE
Improvement Fee per DUE	\$ 342	

Storage Systems:

Based upon current storage requirements, the existing facilities are not of sufficient capacity to serve the current DUE demands.

As shown on page 3 of Appendix "A":

Reimbursement Fee:

Value of Capacity Improvements	\$ 2,750,000	
Total System Capacity	3,685	DUE
Committed Capacity	3,750	DUE
Remaining Capacity	0	DUE
Value of Uncommitted Capacity (0%)	0	
Reimbursement Fee per DUE	0	

Improvement Fee:

Cost of Required Capital Improvements	\$ 2,470,000	
Additional DUE's to Buildout	4,515	DUE
Improvement Fee per DUE	\$ 547	

Distribution System Inventory:

In order to develop an equitable approach to reimburse the current rate payers, the reimbursement fee for the distribution system is based upon the depreciated present worth value of the oversize components spread over the total number of remaining connections until buildout of the UGB. All debt service and depreciation expenses have been born by the rate payers to date, and all oversizing primarily benefits future connections. It provides a balance of equity to assign all reimbursement fees only to the additional DUEs to buildout of the UGB.

Pipelines eligible for reimbursement were determined to be 10" and larger only. The cost of non-reimbursement eligible pipelines, i.e., 8" and smaller, was deducted from the replacement cost of each distribution pipe. The remaining oversized value was then depreciated over a 50 year life for piping to determine the value of oversized capital improvements.

Improvement fees are calculated similarly to each of the three other water system components. The distribution system capital improvements are necessitated by new development and result in distribution system benefits in effectively underdeveloped areas.

The line listing and cost accounting is contained on pages 4, 5 and 6 of Appendix "A".

Reimbursement Fee:

Value of Oversizing	\$ 751,076	
Total System Capacity	4,450	DUE
Committed Capacity	0	DUE
Remaining Capacity	4,450	DUE
Value of Uncommitted Capacity (100%)	\$ 751,076	
Reimbursement per DUE	\$ 169	

Improvement Fee:

Cost of Required Capital Improvements	\$ 655,700	
Additional DUE's to Buildout	4,450	DUE
Improvement Fee per DUE	\$ 147	

The summary of all System Development Charge components valid for 1992-93 is:

Source:	Reimbursement	\$ 123
	Improvement	0
Treatment:	Reimbursement	\$ 324
	Improvement	0
Storage:	Reimbursement	0
	Improvement	\$ 547
Distribution:	Reimbursement	\$ 169
	Improvement	<u>\$ 147</u>
TOTAL WATER SYSTEM SDC		<u>\$ 1,310</u>

CURRENT DEBT SERVICE

From the capacity analysis of existing capital improvements, the value of non-committed improvements totals approximately \$1,520,000. This value is the total that will be collected from reimbursement fees when ultimate buildout is achieved. This is approximately equal to the total of outstanding debt on the existing General Obligation Bonds issued to construct most of the major improvements.

In 1992, the outstanding balance of this bond issue was approximately \$1,800,000. This implementation of the revised SDC is the first to account for the total impact of a new connection. The inequities in the past have resulted in a subsidy to new connections to the system. This inequity is manifest in the 15-20% difference between the value of non-committed capacity and the balance of the outstanding bond issue.

The next few months and years will be a transition period before the SDC and user rates provide a truly equitable format for all users. Rate payers will be relieved of subsidizing new connection impacts by a gradual adjustment of rates and new connection will pay no more and no less than their impact on the system.

APPENDIX "A"

CANBY UTILITY BOARD

WATER SYSTEM DEVELOPMENT CHARGE AND
DWELLING UNIT EQUIVALENT ANALYSISWATER SOURCE FACILITIES

Capacity based on total source development of 8.0 MGD/933 gallons/D.U.E.;
Current 1992 D.U.E. 3,750; Projected 2012 D.U.E. 8,200

REIMBURSEMENT FEE: 8.0 MGD River Intake Capacity equals 8,575 D.U.E.

Sitework and Property, approx. 2 AC	\$ 100,000
Building Improvements, 25'6" x 25'6" @ 300/SF	195,000
Mechanical Piping, Pumps, Controls	100,000
Infiltration Gallery	<u>450,000</u>
	\$ 845,000
Engineering and Support Services	<u>210,000</u>
TOTAL ESTIMATED COST	\$1,055,000
Remaining Capacity, (8,575 - 3,750 D.U.E.) / (8,575 D.U.E.)	56.3%
Reimbursement Total	\$ 594,000
Cost per D.U.E., (Reimbursement Total)/(8,575 - 3,750 D.U.E.)	\$ 123

IMPROVEMENT FEE to serve UGB:

No additional Source Improvements Required to Serve U.G.B.

CANBY UTILITY BOARD

WATER TREATMENT FACILITY INVENTORY

Capacity based on 933 Gallons/Day/D.U.E.;
Current 1992 D.U.E. 3,750; Projected 2012 D.U.E. 8,200

REIMBURSEMENT FEE: 4.0 MGD Existing Plant capacity equals 4,290 D.U.E.

Sitework and Property, approx. 1 AC	\$ 100,000
Filter Building, 2,440 SF @ \$50/SF	146,000
Control Building, 1,700 SF @ \$80/SF	136,000
Treatment Units and Appurtenances 4 @ \$100,000	400,000
Mechanical Piping, Pumps, Controls	250,000
Reactor Tank, 160,000 gal @ \$0.50/gal	<u>80,000</u>
	\$1,112,000
Engineering and Support Services	<u>278,000</u>
TOTAL ESTIMATED COST	\$1,390,000
Remaining Capacity, (4,290 - 3,750 D.U.E.) / (4,290 D.U.E.)	12.6%
Reimbursement Total	\$ 175,140
Cost per D.U.E.; (Reimbursement Total)/(4,290 - 3,750 D.U.E.)	\$ 324

IMPROVEMENT FEE: 3.65 MGD Additional Required for 3,910 D.U.E. Additional

Sitework at Existing Plant	\$ 100,000
Filter Building, 2,440 SF @ \$50/SF	122,000
Control Building Modifications	150,000
Treatment Units & Appurtenances, 4 @ \$125,000	500,000
Mechanical Piping, Pumps, Controls	<u>200,000</u>
	\$ 1,072,000
Engineering and Support Services	<u>268,000</u>
TOTAL ESTIMATED COST	\$1,340,000
Cost per Additional D.U.E.; (Total)/(3,910 D.U.E.)	\$ 342

CANBY UTILITY BOARD

STORAGE SYSTEM ANALYSIS

Storage requirements based upon 1.33 MG Storage per 1000 D.U.E.;
Current 1992 D.U.E. 3,750; Projected 2012 D.U.E. 8,200

REIMBURSEMENT FEE: 4.9 MG existing Storage equals 3,685 D.U.E.

There is no excess capacity for reimbursement

IMPROVEMENT FEE: 6.0 MG Additional Storage Required for 4,515 D.U.E. Additional

Sitework & Property, 4AC @ \$25,000	\$ 100,000
Off-site Piping, 2,500 LF @ \$54/LF	135,000
6.0 MG Reservoir, @ 0.30/gal	1,800,000
Building Improvements	<u>25,000</u>
	\$2,060,000
Engineering and Support Services	<u>410,000</u>
TOTAL ESTIMATED COST	\$2,470,000
Cost per Additional D.U.E.; (Total)/(4,515 D.U.E.)	\$ 547

CANBY UTILITY BOARD - WATER DISTRIBUTION SYSTEM INVENTORY

Pipe cost: 6-8" @ \$26.00/LF; 10" @ \$32.00/LF; 12" @ \$39.00/LF; 14" @ \$48.00/LF; 16" @ \$54.00/LF

STREET	FROM	TO	SIZE (in)	LENGTH (Feet)	TYPE	LIFE (Year)	COST (1992)	OVERSIZE COST	REIMBURSEMENT COST
Constructed 1960 - 1970									
N. Elm St.	N. 4th	S. 6th	10	3,000	Steel	2020	\$96,000.00	\$18,000.00	\$10,080.00
N. 3rd Ave	Cedar	Douglas	10	400	Steel	2020	12,800.00	\$2,400.00	1,344.00
N. 6th Ave	Cedar	N. 4th	16	1,400	Steel	2020	75,600.00	\$39,200.00	21,952.00
N. Ivy St	3rd	4th	12	300	Steel	2020	11,700.00	\$3,900.00	2,184.00
TOTAL							\$196,100.00	\$63,500.00	\$35,560.00
Constructed 1970 - 1980									
S. Elm St	6th	13th	14	1,600	Steel	2030	\$76,800.00	\$35,200.00	\$26,752.00
S. 13th Ave	Elm	Ivy	14	2,200	Steel	2030	105,600.00	\$48,400.00	36,784.00
S. Ivy St	11th	13th	10	600	PVC	2030	19,200.00	\$3,600.00	2,736.00
S. 13th Ave	Ivy	Pine	14	1,700	D.I.	2030	81,600.00	\$37,400.00	28,424.00
S. Pine St	Township	13th	12	2,600	D.I.	2030	101,400.00	\$33,800.00	25,688.00
S. Fir St	6th	13th	12	1,900	Steel	2030	74,100.00	\$24,700.00	18,772.00
S. 6th Ave	Elm	Ivy	12	1,600	Steel	2030	62,400.00	\$20,800.00	15,808.00
N. 3rd Ave	Ash	Cedar	10	2,200	Steel	2030	70,400.00	\$13,200.00	10,032.00
N. 4th Ave	Fir	Locust	10	2,100	PVC	2030	67,200.00	\$12,600.00	9,576.00
N. Cedar St	6th	8th	16	500	Steel	2030	27,000.00	\$14,000.00	10,640.00
N. 3rd Ave	Ivy	4th	14	1,400	Steel	2030	67,200.00	\$30,800.00	23,408.00
N. Cedar St	8th	Birch	14	900	D.I.	2030	43,200.00	\$19,800.00	15,048.00
N. Maple St	16th	Territorial	10	500	Steel	2030	16,000.00	\$3,000.00	2,280.00
N. Maple St	Territorial	31st	10	4,200	Steel	2030	134,400.00	\$25,200.00	19,152.00
N. Locust St	3rd	10th	12	1,800	Steel	2030	70,200.00	\$23,400.00	17,784.00
TOTAL							\$1,016,700.00	\$345,900.00	\$262,884.00
Constructed 1980 - 1990									
N. Baker Dr	3rd	6th	10	1,600	Steel	2040	\$51,200.00	\$9,600.00	\$9,216.00
S. 13rd Ave	Berg	Ivy	14	2,400	D.I.	2040	115,200.00	\$52,800.00	50,688.00

CANBY UTILITY BOARD - WATER DISTRIBUTION SYSTEM INVENTORY

Pipe cost: 6-8" @ \$26.00/LF; 10" @ \$32.00/LF; 12" @ \$39.00/LF; 14" @ \$48.00/LF; 16" @ \$54.00/LF

STREET	FROM	TO	SIZE (in)	LENGTH (Feet)	TYPE	LIFE (Year)	COST (1992)	OVERSIZE COST	REIMBURSEMENT COST
S. Elm St	13th	15th	10	1,000	PVC	2040	32,000.00	\$6,000.00	5,760.00
N. Pine St	10th	99E	12	1,600	PVC	2040	62,400.00	\$20,800.00	19,968.00
S. Pine St	99E	Township	12	3,000	Steel	2040	117,000.00	\$39,000.00	37,440.00
Ivy St	N. 3rd	S. 6th	12	2,400	D.I.	2040	93,600.00	\$31,200.00	29,952.00
N. 4th Ave	3rd	99E	12	1,700	PVC	2040	66,300.00	\$22,100.00	21,216.00
N. Birch St	Knights Br	Territorial	14	2,400	D.I.	2040	115,200.00	\$52,800.00	50,688.00
N. Territorial	Birch	Juniper	12	3,100	D.I.	2040	120,900.00	\$40,300.00	38,688.00
N. Territorial	Juniper	Maple	12	1,800	D.I.	2040	70,200.00	\$23,400.00	22,464.00
N. Maple St	10th	16th	12	1,800	PVC	2040	70,200.00	\$23,400.00	22,464.00
N. 10th Ave	Maple	Pine	12	1,400	PVC	2040	54,600.00	\$18,200.00	17,472.00
N. 10th Ave	Locust	Maple	12	1,000	Steel	2040	39,000.00	\$13,000.00	12,480.00
N. 10th Ave	Holly	Locust	10	1,600	Steel	2040	51,200.00	\$9,600.00	9,216.00
N. Juniper St	10th	Territorial	10	2,000	Steel	2040	64,000.00	\$12,000.00	11,520.00
TOTAL							\$1,123,000.00	\$374,200.00	\$359,232.00
Constructed 1990 - 1992									
N. Territorial	Maple	Redwood	12	2,800	PVC	2050	\$109,200.00	\$36,400.00	\$36,400.00
N. Territorial	Redwood	Willow Cr	14	2,000	D.I.	2050	96,000.00	\$44,000.00	44,000.00
N. Grant St	1st	4th	12	1,000	PVC	2050	39,000.00	\$13,000.00	13,000.00
TOTAL							\$244,200.00	\$93,400.00	\$93,400.00
Future Construction 1992 - 2012									
Berg Pkwy	N. 3rd	S 13th	14	2,600	D.I./PVC	2060	\$124,800.00	\$57,200.00	—
S. 13th Ave	Pine	Walnut	14	3,600	D.I./PVC	2060	172,800.00	\$79,200.00	—
S. Walnut St	13th	Township	14	2,600	D.I./PVC	2060	124,800.00	\$57,200.00	—
Township Rd	Pine	walnut	12	3,600	D.I./PVC	2060	140,400.00	\$46,800.00	—
S. Walnut St	Township	S 1st	14	4,200	D.I./PVC	2060	201,600.00	\$92,400.00	—

CANBY UTILITY BOARD - WATER DISTRIBUTION SYSTEM INVENTORY

Pipe cost: 6-8" @ \$26.00/LF; 10" @ \$32.00/LF; 12" @ \$39.00/LF; 14" @ \$48.00/LF; 16" @ \$54.00/LF

STREET	FROM	TO	SIZE (in)	LENGTH (Feet)	TYPE	LIFE (Year)	COST (1992)	OVERSIZE COST	REIMBURSEMENT COST
S. Territorial Rd	99E	S 1st	14	5,000	D.I./PVC	2060	240,000.00	\$110,000.00	---
N. Territorial Rd	99E	Willow Cr	14	800	D.I./PVC	2060	38,400.00	\$17,600.00	---
N. Redwood St	10th	Territorial	12	3,500	D.I./PVC	2060	136,500.00	\$45,500.00	---
N. 10th Ave	Redwood	Pine	12	1,400	D.I./PVC	2060	54,600.00	\$18,200.00	---
N. 3rd Ave	Berg	Cedar	14	1,200	D.I./PVC	2060	57,600.00	\$26,400.00	---
N. Cedar	3rd	6th	14	1,100	D.I./PVC	2060	52,800.00	\$24,200.00	---
N. 1st Ave	Elm	Ivy	10	1,500	D.I./PVC	2060	48,000.00	\$9,000.00	---
S. 1st Ave	Berg	Territorial	10	12,000	D.I./PVC	2060	384,000.00	\$72,000.00	---
TOTAL							\$1,776,300.00	\$655,700.00	

TOTAL OVERSIZING IMPROVEMENT FEE	\$655,700.00
FOR ADDITIONAL 4,450 D.U.E., COST PER D.U.E.	\$147.00

TOTAL OVERSIZING REIMBURSEMENT FEE	\$751,076.00
FOR ADDITIONAL 4,450 D.U.E., COST PER D.U.E.	\$169.00

APPENDIX "B"

Canby Utility Board - Water System Development Charges

1992 COST OF PROVIDING SERVICES PER DWELLING UNIT EQUIVALENT

DWELLING UNIT EQUIVALENTS	1. SOURCE COSTS		2. TREATMENT COSTS		3. STORAGE COSTS		4. DISTRIBUTION COSTS		SYSTEM DEVELOPMENT CHARGE
	REIM FEE	IMPR FEE	REIM FEE	IMPR FEE	REIM FEE	IMPR FEE	REIM FEE	IMPR FEE	
3,600	\$123.00	---	\$324.00	---	---	\$547.00	\$169.00	\$147.00	\$1,310.00
3,800	123.00	---	324.00	---	---	547.00	169.00	147.00	1,310.00
4,000	123.00	---	324.00	---	---	547.00	169.00	147.00	1,310.00
4,200	123.00	---	324.00	---	---	547.00	169.00	147.00	1,310.00
4,400	123.00	---	---	\$342.00	---	547.00	169.00	147.00	1,328.00
4,600	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
4,800	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
5,000	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
5,200	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
5,400	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
5,600	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
5,800	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
6,000	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
6,200	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
6,400	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
6,600	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
6,800	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
7,000	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
7,200	123.00	---	---	342.00	---	547.00	169.00	-147.00	1,328.00
7,400	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
7,600	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
7,800	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
8,000	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00
8,200	123.00	---	---	342.00	---	547.00	169.00	147.00	1,328.00

* 3,750 Current DWELLING UNIT EQUIVALENTS, September 1992

APPENDIX "C"

CANBY UTILITY BOARD
DEMAND ANALYSIS - SDC REDUCTIONS
September 1992

BASIS OF CALCULATIONS - 3/4" Single Family Residence Demand 1,400 cubic feet/month is ONE (1) DWELLING UNIT EQUIVALENT

	Number of Units	Average Demand (CF/MO)	Percent of DUE	
MOBILE HOME DEVELOPMENTS:				
Elmwood Mobile Home Court	112	1320	0.94	
Redwood Mobile Vill	70	902	0.64	
Canby Manor Mobile Home Ct	55	927	0.66	
Total	237	1,105	0.79	
APARTMENT UNITS: 0 - 20 units				
Goodman, 410 S. Knott	13	789	0.56	
Milo's Del Manor Apts	16	460	0.33	
Fincher, 290 S.E. 2nd Ave	16	1166	0.83	
Anderson, 450 N. Ivy	8	1075	0.77	
Bair, 399 S.W. 1st Ave	10	787	0.56	
H Q Construction, 272 S. Knott	8	2280	1.63	
Culver, 315 S. Locust	5	545	0.39	
Behrens, 323 S. Locust	5	752	0.54	
Brown, 341 S.E. 2nd	8	611	0.44	
Total	89	925	0.66	
APARTMENT UNITS: 21 - 50 units				
Willamette Green	41	1124	0.80	
Maple Terrace Apartments	28	609	0.44	
Guardian Mgmt, 620 N. Douglas	24	1252	0.89	
Guardian Mgmt, 718 N.W. 5th	30	611	0.44	
Greenbriar, 245 S. Locust	30	1693	1.21	
Hafner, 1101 N.E. Terrace Pl	33	1025	0.73	
Canby Garden Apartments	34	763	0.55	
Total	220	816	0.58	
APARTMENT UNITS: 50 - 100				
Greenbriar, 250 S. Locust	56	1520	1.09	
Guardian Management	52	861	0.62	
Total	108	1,203	0.86	
MULTI-FAMILY				
Miscellaneous	Total	421	1,021	0.73
SUMMARY of All Multi-Family/Mobile Home Connections				
Billing Code 4: 3/4" Meter	118	916	0.65	
Billing Code 5: 1" Meter	135	943	0.67	
Billing Code 6: 1 1/2" Meter	123	1302	0.93	
Billing Code 7: 2" Meter	215	723	0.52	
Billing Code 8: 3" Meter	216	1045	0.75	
Billing Code 9: 4" Meter	268	1155	0.83	
Total	1075	1008	0.72	

CANBY UTILITY BOARD
Residential Demand Analysis

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2,235	4,910,201	2,197	27	94,170	3,488
October 1991	2,236	4,128,859	1,847	27	80,720	2,990
November 1991	2,238	2,169,885	970	27	23,900	885
December 1991	2,254	1,593,575	707	26	20,830	801
January 1992	2,259	1,910,145	846	26	21,760	837
February 1992	2,262	1,789,415	791	26	20,550	790
March 1992	2,266	1,791,700	791	26	25,100	965
April 1992	2,274	2,139,256	941	26	31,960	1,229
May 1992	2,272	2,325,469	1,024	28	34,350	1,227
June 1992	2,287	5,382,160	2,353	28	100,380	3,585
July 1992	2,290	5,577,768	2,436	28	85,440	3,051
August 1992	2,298	4,554,843	1,982	28	85,010	3,036
AVERAGE PER METER DEMAND (CF/MO)			1,407	1,907		
RELATIVE CONSUMPTION (%)		3/4" METER 100%		1" METER 136%		

CANBY UTILITY BOARD
Multi-Family Demand Analysis

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	47	135,580	2,885	38	166,400	4,379
October 1991	47	133,450	2,839	38	129,170	3,399
November 1991	47	90,370	1,923	38	95,180	2,505
December 1991	47	85,180	1,812	38	94,310	2,482
January 1992	47	89,970	1,914	38	103,900	2,734
February 1992	47	87,180	1,855	38	101,490	2,671
March 1992	47	84,610	1,800	38	97,850	2,575
April 1992	47	90,740	1,931	38	107,130	2,819
May 1992	47	86,460	1,840	38	99,040	2,606
June 1992	47	129,200	2,749	38	165,620	4,358
July 1992	48	148,220	3,088	39	172,990	4,436
August 1992	47	139,070	2,959	39	164,390	4,215
AVERAGE PER METER DEMAND (CF/MO)			2,300	3,265		
RELATIVE CONSUMPTION (%)		3/4" METER 163%		1" METER 232%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	13	187,710	14,439	13	167,260	12,866
October 1991	13	173,980	13,383	13	175,580	13,506
November 1991	13	156,960	12,074	13	133,460	10,266
December 1991	13	130,575	10,044	13	121,290	9,330
January 1992	13	142,580	10,968	13	134,110	10,316
February 1992	13	117,455	9,035	13	131,250	10,096
March 1992	13	193,830	14,910	13	131,840	10,142
April 1992	13	122,980	9,460	13	139,640	10,742
May 1992	13	128,090	9,853	13	142,740	10,980
June 1992	13	183,930	14,148	13	188,790	14,522
July 1992	14	202,770	14,484	13	209,880	16,145
August 1992	12	180,880	15,073	13	188,580	14,506
AVERAGE PER METER DEMAND (CF/MO)			12,323			
RELATIVE CONSUMPTION (%)			1 1/2" METER 876%	2" METER 849%		

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	5	283,130	56,626	5	429,800	85,960
October 1991	5	280,430	56,086	5	343,600	68,720
November 1991	5	180,860	36,172	5	240,000	48,000
December 1991	5	151,240	30,248	5	209,200	41,840
January 1992	5	156,000	31,200	5	249,500	49,900
February 1992	5	153,850	30,770	5	209,300	41,860
March 1992	5	153,060	30,612	5	308,100	61,620
April 1992	5	196,830	39,366	5	218,100	43,620
May 1992	5	218,880	43,776	5	247,500	49,500
June 1992	5	323,590	64,718	5	420,800	84,160
July 1992	4	244,740	61,185	6	500,500	83,417
August 1992	6	367,610	61,268	4	337,800	84,450
AVERAGE PER METER DEMAND (CF/MO)			45,169			
RELATIVE CONSUMPTION (%)			3" METER 3211%	4" METER 4401%		

CANBY UTILITY BOARD
Commercial Demand Analysis

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	183	234,115	1,279	28	127,800	4,564
October 1991	182	250,795	1,378	28	122,788	4,385
November 1991	180	176,370	980	28	78,052	2,788
December 1991	181	148,360	820	28	69,980	2,499
January 1992	184	157,005	853	30	79,970	2,666
February 1992	191	154,985	811	30	84,650	2,822
March 1992	194	141,475	729	30	87,770	2,926
April 1992	198	184,705	933	32	97,800	3,056
May 1992	204	164,605	807	33	105,630	3,201
June 1992	203	269,535	1,328	34	182,170	5,358
July 1992	196	271,515	1,385	35	191,525	5,472
August 1992	202	325,865	1,613	32	157,535	4,923
AVERAGE PER METER DEMAND (CF/MO)			1,076	3,722		
RELATIVE CONSUMPTION (%)	3/4" METER 77%			1" METER 265%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	10	54,050	5,405	13	274,720	21,132
October 1991	10	53,980	5,398	13	244,000	18,769
November 1991	10	44,620	4,462	13	146,830	11,295
December 1991	10	28,840	2,884	12	136,070	11,339
January 1992	10	30,960	3,096	12	133,940	11,162
February 1992	10	39,520	3,952	13	125,330	9,641
March 1992	10	30,300	3,030	13	136,330	10,487
April 1992	11	29,200	2,655	13	149,990	11,538
May 1992	11	60,090	5,463	13	129,360	9,951
June 1992	11	63,680	5,789	13	201,470	15,498
July 1992	11	66,770	6,070	13	299,250	23,019
August 1992	11	63,460	5,769	13	268,260	20,635
AVERAGE PER METER DEMAND (CF/MO)			4,498	14,539		
RELATIVE CONSUMPTION (%)	1 1/2" METER 320%			2" METER 1033%		

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2	49,750	24,875	3	308,180	102,727
October 1991	2	60,650	30,325	3	147,830	49,277
November 1991	2	28,770	14,385	3	46,740	15,580
December 1991	1	27,370	27,370	3	44,740	14,913
January 1992	1	26,400	26,400	3	38,820	12,940
February 1992	2	30,070	15,035	3	37,740	12,580
March 1992	2	37,780	18,890	3	33,320	11,107
April 1992	2	46,210	23,105	3	94,110	31,370
May 1992	2	58,830	29,415	3	19,800	6,600
June 1992	2	142,180	71,090	3	310,330	103,443
July 1992	2	143,130	71,565	3	493,410	164,470
August 1992	2	163,630	81,815	3	288,480	96,160
AVERAGE PER METER DEMAND (CF/MO)			36,189	51,764		
RELATIVE CONSUMPTION (%)		3" METER 2572%		4" METER 3679%		

CANBY UTILITY BOARD
Industrial Demand Analysis

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	0	0	0	1	2,350	2,350
October 1991	0	0	0	1	3,680	3,680
November 1991	0	0	0	1	1,210	1,210
December 1991	0	0	0	1	1,550	1,550
January 1992	0	0	0	1	2,810	2,810
February 1992	0	0	0	1	1,630	1,630
March 1992	0	0	0	1	1,090	1,090
April 1992	0	0	0	1	980	980
May 1992	0	0	0	1	1,250	1,250
June 1992	0	0	0	1	1,990	1,990
July 1992	0	0	0	1	1,450	1,450
August 1992	0	0	0	1	1,660	1,660
AVERAGE PER METER DEMAND (CF/MO)			NA	1,804		
RELATIVE CONSUMPTION (%)		3/4" METER NA		1" METER 128%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2	49,290	24,645	1	11,910	11,910
October 1991	2	41,220	20,610	1	1,560	1,560
November 1991	2	27,900	13,950	1	1,400	1,400
December 1991	2	18,060	9,030	1	2,920	2,920
January 1992	2	22,780	11,390	1	2,060	2,060
February 1992	2	28,200	14,100	1	2,540	2,540
March 1992	2	31,860	15,930	1	16,250	16,250
April 1992	2	28,680	14,340	1	1,180	1,180
May 1992	2	34,440	17,220	1	850	850
June 1992	2	48,860	24,430	1	3,560	3,560
July 1992	2	33,190	16,595	1	15,170	15,170
August 1992	2	25,170	12,585	1	21,970	21,970
AVERAGE PER METER DEMAND (CF/MO)			16,235	6,781		
RELATIVE CONSUMPTION (%)		1 1/2" METER	1154%	2" METER		482%

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	0	0	ERR	1	111,600	111,600
October 1991	0	0	ERR	1	106,800	106,800
November 1991	0	0	ERR	1	84,400	84,400
December 1991	0	0	ERR	1	85,000	85,000
January 1992	0	0	ERR	1	69,400	69,400
February 1992	0	0	ERR	1	80,200	80,200
March 1992	0	0	ERR	1	65,200	65,200
April 1992	0	0	ERR	1	75,100	75,100
May 1992	0	0	ERR	1	76,600	76,600
June 1992	0	0	ERR	1	108,300	108,300
July 1992	0	0	ERR	1	80,600	80,600
August 1992	0	0	ERR	1	128,800	128,800
AVERAGE PER METER DEMAND (CF/MO)			NA	89,333		
RELATIVE CONSUMPTION (%)		3" METER	NA	4" METER		6350%

CANBY UTILITY BOARD

1991 - 1992 ACTUAL DEMAND AND DWELLING UNIT EQUIVALENT (D.U.E.) EVALUATION

Historical Average Flows are equal to 1,407 CF Per Month for Single Family Residence (1.0 D.U.E.)

September 1992

METER SIZE	SINGLE FAMILY (CF/MO)	D.U.E. PER HOUSING UNIT	MULTI-FAMILY/ APARTMENT MOBILE HOMES	DUE/METER (DUE/UNIT)	COMMERCIAL SERVICE DEMAND	D.U.E. PER METER CONNECTION	INDUSTRIAL SERVICE DEMAND	D.U.E. PER METER CONNECTION
3/4"	1,407 CF/MO	1.00	2,300 CF/MO (916/unit)	1.63 (0.65)	1,076 CF/MO	0.76	—	—
1"	1,907 CF/MO	1.36	3,265 CF/MO (943/unit)	2.32 (0.65)	3,722 CF/MO	2.65	1,804	1.28
1 1/2"	—	—	12,323 CF/MO (1,302/unit)	8.76 (0.93)	4,498 CF/MO	3.20	16,235	11.54
2"	—	—	11,951 CF/MO (723/unit)	8.49 (0.51)	14,539 CF/MO	10.33	6,781	4.82
3"	—	—	45,169 CF/MO (1,045/unit)	32.10 (0.74)	36,189 CF/MO	25.72	—	—
4"	—	—	61,921 CF/MO (1,155/unit)	44.01 (1,155)	51,764 CF/MO	36.79	89,333	63.49

CANBY UTILITY BOARD
Residential Demand Analysis - SUMMER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2,235	4,910,201	2,197	27	94,170	3,488
October 1991	2,236	4,128,859	1,847	27	80,720	2,990
May 1992	2,272	2,325,469	1,024	28	34,350	1,227
June 1992	2,287	5,382,160	2,353	28	100,380	3,585
July 1992	2,290	5,577,768	2,436	28	85,440	3,051
August 1992	2,298	4,554,843	1,982	28	85,010	3,036
AVERAGE PER METER DEMAND (CF/MO)			1,973	2,896		
RELATIVE CONSUMPTION (%)		3/4" METER 140%		1" METER 206%		

CANBY UTILITY BOARD
Multi-Family Demand Analysis - SUMMER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	47	135,580	2,885	38	166,400	4,379
October 1991	47	133,450	2,839	38	129,170	3,399
May 1992	47	86,460	1,840	38	99,040	2,606
June 1992	47	129,200	2,749	38	165,620	4,358
July 1992	48	148,220	3,088	39	172,990	4,436
August 1992	47	139,070	2,959	39	164,390	4,215
AVERAGE PER METER DEMAND (CF/MO)			2,727	3,899		
RELATIVE CONSUMPTION (%)		3/4" METER 194%		1" METER 277%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	13	187,710	14,439	13	167,260	12,866
October 1991	13	173,980	13,383	13	175,580	13,506
May 1992	13	128,090	9,853	13	142,740	10,980
June 1992	13	183,930	14,148	13	188,790	14,522
July 1992	14	202,770	14,484	13	209,880	16,145
August 1992	12	180,880	15,073	13	188,580	14,506
AVERAGE PER METER DEMAND (CF/MO)			13,563	13,754		
RELATIVE CONSUMPTION (%)		1 1/2" METER 964%		2" METER 978%		

CANBY UTILITY BOARD

Multi-Family Demand Analysis - SUMMER FLOWS

MONTH	3* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	5	283,130	56,626	5	429,800	85,960
October 1991	5	280,430	56,086	5	343,600	68,720
May 1992	5	218,880	43,776	5	247,500	49,500
June 1992	5	323,590	64,718	5	420,800	84,160
July 1992	4	244,740	61,185	6	500,500	83,417
August 1992	6	367,610	61,268	4	337,800	84,450
AVERAGE PER METER DEMAND (CF/MO)			57,277	76,034		
RELATIVE CONSUMPTION (%)		3* METER 4071%		4* METER 5404%		

CANBY UTILITY BOARD

Commercial Demand Analysis - SUMMER FLOWS

MONTH	3/4* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	183	234,115	1,279	28	127,800	4,564
October 1991	182	250,795	1,378	28	122,788	4,385
May 1992	204	164,605	807	33	105,630	3,201
June 1992	203	269,535	1,328	34	182,170	5,358
July 1992	196	271,515	1,385	35	191,525	5,472
August 1992	202	325,865	1,613	32	157,535	4,923
AVERAGE PER METER DEMAND (CF/MO)			1,298	4,651		
RELATIVE CONSUMPTION (%)		3/4* METER 92%		1* METER 331%		

MONTH	1 1/2* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2* METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	10	54,050	5,405	13	274,720	21,132
October 1991	10	53,980	5,398	13	244,000	18,769
May 1992	11	60,090	5,463	13	129,360	9,951
June 1992	11	63,680	5,789	13	201,470	15,498
July 1992	11	66,770	6,070	13	299,250	23,019
August 1992	11	63,460	5,769	13	268,260	20,635
AVERAGE PER METER DEMAND (CF/MO)			5,649	18,167		
RELATIVE CONSUMPTION (%)		1 1/2* METER 401%		2* METER 1291%		

CANBY UTILITY BOARD
Commercial Demand Analysis - SUMMER FLOWS

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2	49,750	24,875	3	308,180	102,727
October 1991	2	60,650	30,325	3	147,830	49,277
May 1992	2	58,830	29,415	3	19,800	6,600
June 1992	2	142,180	71,090	3	310,330	103,443
July 1992	2	143,130	71,565	3	493,410	164,470
August 1992	2	163,630	81,815	3	288,480	96,160
AVERAGE PER METER DEMAND (CF/MO)			51,514	87,113		
RELATIVE CONSUMPTION (%)		3" METER 3661%		4" METER 6191%		

CANBY UTILITY BOARD
Industrial Demand Analysis - SUMMER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	0	0	0	1	2,350	2,350
October 1991	0	0	0	1	3,680	3,680
May 1992	0	0	0	1	1,250	1,250
June 1992	0	0	0	1	1,990	1,990
July 1992	0	0	0	1	1,450	1,450
August 1992	0	0	0	1	1,660	1,660
AVERAGE PER METER DEMAND (CF/MO)			NA	2,063		
RELATIVE CONSUMPTION (%)		3/4" METER NA		1" METER 147%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2	49,290	24,645	1	11,910	11,910
October 1991	2	41,220	20,610	1	1,560	1,560
May 1992	2	34,440	17,220	1	850	850
June 1992	2	48,860	24,430	1	3,560	3,560
July 1992	2	33,190	16,595	1	15,170	15,170
August 1992	2	25,170	12,585	1	21,970	21,970
AVERAGE PER METER DEMAND (CF/MO)			19,348	9,170		
RELATIVE CONSUMPTION (%)		1 1/2" METER 1375%		2" METER 652%		

CANBY UTILITY BOARD
Industrial Demand Analysis - SUMMER FLOWS

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	0	0	ERR	1	111,600	111,600
October 1991	0	0	ERR	1	106,800	106,800
May 1992	0	0	ERR	1	76,600	76,600
June 1992	0	0	ERR	1	108,300	108,300
July 1992	0	0	ERR	1	80,600	80,600
August 1992	0	0	ERR	1	128,800	128,800
AVERAGE PER METER DEMAND (CF/MO)			NA	102,117		
RELATIVE CONSUMPTION (%)	3" METER		NA	4" METER		7258%

CANBY UTILITY BOARD

Residential Demand Analysis - WINTER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	2,238	2,169,885	970	27	23,900	885
December 1991	2,254	1,593,575	707	26	20,830	801
January 1992	2,259	1,910,145	846	26	21,760	837
February 1992	2,262	1,789,415	791	26	20,550	790
March 1992	2,266	1,791,700	791	26	25,100	965
April 1992	2,274	2,139,256	941	26	31,960	1,229
AVERAGE PER METER DEMAND (CF/MO)			841			
RELATIVE CONSUMPTION (%)			3/4" METER 60%	1" METER 65%		

CANBY UTILITY BOARD

Multi-Family Demand Analysis - WINTER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	47	90,370	1,923	38	95,180	2,505
December 1991	47	85,180	1,812	38	94,310	2,482
January 1992	47	89,970	1,914	38	103,900	2,734
February 1992	47	87,180	1,855	38	101,490	2,671
March 1992	47	84,610	1,800	38	97,850	2,575
April 1992	47	90,740	1,931	38	107,130	2,819
AVERAGE PER METER DEMAND (CF/MO)			1,873			
RELATIVE CONSUMPTION (%)			3/4" METER 133%	1" METER 187%		

CANBY UTILITY BOARD

Multi-Family Demand Analysis - WINTER FLOWS

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	13	156,960	12,074	13	133,460	10,266
December 1991	13	130,575	10,044	13	121,290	9,330
January 1992	13	142,580	10,968	13	134,110	10,316
February 1992	13	117,455	9,035	13	131,250	10,096
March 1992	13	193,830	14,910	13	131,840	10,142
April 1992	13	122,980	9,460	13	139,640	10,742
AVERAGE PER METER DEMAND (CF/MO)			11,082			
RELATIVE CONSUMPTION (%)			1 1/2" METER 788%	2" METER 721%		

CANBY UTILITY BOARD
Multi-Family Demand Analysis - WINTER FLOWS

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	5	180,860	36,172	5	240,000	48,000
December 1991	5	151,240	30,248	5	209,200	41,840
January 1992	5	156,000	31,200	5	249,500	49,900
February 1992	5	153,850	30,770	5	209,300	41,860
March 1992	5	153,060	30,612	5	308,100	61,620
April 1992	5	196,830	39,366	5	218,100	43,620

AVERAGE PER METER DEMAND (CF/MO) 33,061 47,807

RELATIVE CONSUMPTION (%) 3" METER 2350% 4" METER 3398%

CANBY UTILITY BOARD
Commercial Demand Analysis - WINTER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	180	176,370	980	28	78,052	2,788
December 1991	181	148,360	820	28	69,980	2,499
January 1992	184	157,005	853	30	79,970	2,666
February 1992	191	154,985	811	30	84,650	2,822
March 1992	194	141,475	729	30	87,770	2,926
April 1992	198	184,705	933	32	97,800	3,056

AVERAGE PER METER DEMAND (CF/MO) 854 2,793

RELATIVE CONSUMPTION (%) 3/4" METER 61% 1" METER 198%

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	10	44,620	4,462	13	146,830	11,295
December 1991	10	28,840	2,884	12	136,070	11,339
January 1992	10	30,960	3,096	12	133,940	11,162
February 1992	10	39,520	3,952	13	125,330	9,641
March 1992	10	30,300	3,030	13	136,330	10,487
April 1992	11	29,200	2,655	13	149,990	11,538

AVERAGE PER METER DEMAND (CF/MO) 3,346 10,910

RELATIVE CONSUMPTION (%) 1 1/2" METER 238% 2" METER 775%

CANBY UTILITY BOARD
Commercial Demand Analysis - WINTER FLOWS

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	2	28,770	14,385	3	46,740	15,580
December 1991	1	27,370	27,370	3	44,740	14,913
January 1992	1	26,400	26,400	3	38,820	12,940
February 1992	2	30,070	15,035	3	37,740	12,580
March 1992	2	37,780	18,890	3	33,320	11,107
April 1992	2	46,210	23,105	3	94,110	31,370
AVERAGE PER METER DEMAND (CF/MO)			20,864	16,415		
RELATIVE CONSUMPTION (%)			3" METER 1483%	4" METER 1167%		

CANBY UTILITY BOARD
Industrial Demand Analysis - WINTER FLOWS

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	0	0	0	1	1,210	1,210
December 1991	0	0	0	1	1,550	1,550
January 1992	0	0	0	1	2,810	2,810
February 1992	0	0	0	1	1,630	1,630
March 1992	0	0	0	1	1,090	1,090
April 1992	0	0	0	1	980	980
AVERAGE PER METER DEMAND (CF/MO)			NA	1,545		
RELATIVE CONSUMPTION (%)			3/4" METER NA	1" METER 110%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	2	27,900	13,950	1	1,400	1,400
December 1991	2	18,060	9,030	1	2,920	2,920
January 1992	2	22,780	11,390	1	2,060	2,060
February 1992	2	28,200	14,100	1	2,540	2,540
March 1992	2	31,860	15,930	1	16,250	16,250
April 1992	2	28,680	14,340	1	1,180	1,180
AVERAGE PER METER DEMAND (CF/MO)			13,123	4,392		
RELATIVE CONSUMPTION (%)			1 1/2" METER 933%	2" METER 312%		

CANBY UTILITY BOARD
Industrial Demand Analysis - WINTER FLOWS

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
November 1991	0	0	ERR	1	84,400	84,400
December 1991	0	0	ERR	1	85,000	85,000
January 1992	0	0	ERR	1	69,400	69,400
February 1992	0	0	ERR	1	80,200	80,200
March 1992	0	0	ERR	1	65,200	65,200
April 1992	0	0	ERR	1	75,100	75,100
AVERAGE PER METER DEMAND (CF/MO)			NA	76,550		
RELATIVE CONSUMPTION (%)	3" METER		NA	4" METER		5441%

PRELIMINARY DWELLING UNIT EQUIVALENT (D.U.E.) FACTORS

Yearly Average Monthly Flows - Related to Single Family Residential Average Flow of 1,407 CF/MO

METER SIZE	SINGLE FAMILY (CF/MO)	D.U.E.	MULTI-FAMILY/ APARTMENT (CF/MO)	D.U.E.	COMMERCIAL SERVICES (CF/MO)	D.U.E.	INDUSTRIAL SERVICES (CF/MO)	D.U.E.
3/4"	1,407	1.00	2,300	1.63	1,076	0.76	—	—
1"	1,907	1.36	3,265	2.32	3,722	2.65	1,804	1.28
1 1/2"	—	—	12,323	8.76	4,496	3.20	16,235	11.54
2"	—	—	11,951	8.49	14,539	10.33	6,761	4.82
3"	—	—	45,169	32.10	36,169	25.72	—	—
4"	—	—	61,921	44.01	51,764	36.79	66,333	63.49

Summer Average Flows - Related to 12 Month Average Single Family Monthly Flow of 1,407 CF/MO

METER SIZE	SINGLE FAMILY (CF/MO)	D.U.E.	MULTI-FAMILY/ APARTMENT (CF/MO)	D.U.E.	COMMERCIAL SERVICES (CF/MO)	D.U.E.	INDUSTRIAL SERVICES (CF/MO)	D.U.E.
3/4"	1,973	1.40	2,727	1.94	1,296	0.92	—	—
1"	2,696	2.06	3,899	2.77	4,651	3.31	2,063	1.47
1 1/2"	—	—	13,563	9.64	5,648	4.01	19,348	13.75
2"	—	—	13,754	9.76	16,167	12.91	9,170	6.52
3"	—	—	57,277	40.71	51,514	36.61	—	—
4"	—	—	76,034	54.04	67,113	61.91	102,117	72.56

Winter Average Flows - Related to 12 Month Average Single Family Monthly Flow of 1,407 CF/MO

METER SIZE	SINGLE FAMILY (CF/MO)	D.U.E.	MULTI-FAMILY/ APARTMENT (CF/MO)	D.U.E.	COMMERCIAL SERVICES (CF/MO)	D.U.E.	INDUSTRIAL SERVICES (CF/MO)	D.U.E.
3/4"	841	0.60	1,573	1.33	854	0.61	—	—
1"	916	0.65	2,631	1.87	2,763	1.96	1,545	1.10
1 1/2"	—	—	11,082	7.86	3,346	2.36	13,123	9.33
2"	—	—	10,149	7.21	10,910	7.75	4,362	3.12
3"	—	—	33,061	23.50	20,664	14.63	—	—
4"	—	—	47,807	33.96	16,415	11.67	76,550	54.41

CANBY UTILITY BOARD

Type of Service vs. Demand Analysis

MONTH	RESIDENTIAL METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	MULTI-FAMILY UNITS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2,262	5,004,371	2,212	1,075	1,369,880	1,274
October 1991	2,263	4,209,579	1,860	1,075	1,236,210	1,150
November 1991	2,265	2,193,785	969	1,075	896,830	834
December 1991	2,280	1,614,405	708	1,075	791,795	737
January 1992	2,285	1,931,905	845	1,075	876,060	815
February 1992	2,288	1,809,965	791	1,075	800,525	745
March 1992	2,292	1,816,800	793	1,075	969,290	902
April 1992	2,300	2,171,216	944	1,075	875,420	814
May 1992	2,300	2,359,819	1,026	1,075	922,710	858
June 1992	2,315	5,482,540	2,368	1,075	1,411,930	1,313
July 1992	2,318	5,663,208	2,443	1,075	1,479,100	1,376
August 1992	2,326	4,639,853	1,995	1,075	1,378,330	1,282
AVERAGE PER UNIT DEMAND (CF/MO)			1,413			1,008
RELATIVE CONSUMPTION (%)		S.F. DUE	100%		MULTI-FAM	71%

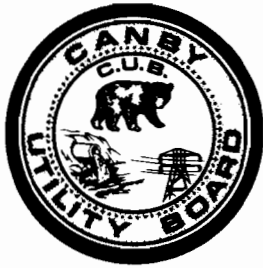
MONTH	COMMERCIAL METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	INDUSTRIAL METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	239	1,048,615	4,388	5	175,150	35,030
October 1991	238	880,043	3,698	5	153,260	30,652
November 1991	236	521,382	2,209	5	114,910	22,982
December 1991	235	455,360	1,938	5	107,530	21,506
January 1992	240	467,095	1,946	5	97,050	19,410
February 1992	249	472,295	1,897	5	112,570	22,514
March 1992	252	466,975	1,853	5	114,400	22,880
April 1992	259	602,015	2,324	5	105,940	21,188
May 1992	266	538,315	2,024	5	113,140	22,628
June 1992	266	1,169,365	4,396	5	162,710	32,542
July 1992	260	1,519,570	5,845	5	130,410	26,082
August 1992	263	1,301,670	4,949	5	177,600	35,520
AVERAGE PER UNIT DEMAND (CF/MO)			3,122			26,078
RELATIVE CONSUMPTION (%)		COMMERCIAL	221%		INDUSTRIAL	1846%

CANBY UTILITY BOARD
Meter Size vs. Demand Analysis

MONTH	3/4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	1" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	2,467	5,285,826	2,143	96	391,680	4,080
October 1991	2,467	4,518,794	1,832	96	337,298	3,514
November 1991	2,467	2,438,455	988	96	199,252	2,076
December 1991	2,484	1,829,655	737	96	187,530	1,953
January 1992	2,492	2,158,070	866	97	210,470	2,170
February 1992	2,502	2,032,580	812	97	211,820	2,184
March 1992	2,509	2,018,585	805	97	212,980	2,196
April 1992	2,521	2,416,781	959	99	239,730	2,422
May 1992	2,525	2,578,984	1,021	102	241,860	2,371
June 1992	2,539	5,785,925	2,279	103	451,240	4,381
July 1992	2,536	5,999,493	2,366	105	452,525	4,310
August 1992	2,549	5,021,338	1,970	102	409,645	4,016
AVERAGE PER METER DEMAND (CF/MO)			1,398	2,973		
RELATIVE CONSUMPTION (%)		3/4" METER 100%		1" METER 213%		

MONTH	1 1/2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	2" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	26	297,870	11,457	31	563,670	18,183
October 1991	26	274,420	10,555	31	472,320	15,236
November 1991	26	233,570	8,983	31	254,900	8,223
December 1991	26	179,425	6,901	30	282,930	9,431
January 1992	26	202,450	7,787	30	293,250	9,775
February 1992	26	187,215	7,201	31	312,040	10,066
March 1992	26	258,620	9,947	31	338,160	10,908
April 1992	27	184,390	6,829	31	328,630	10,601
May 1992	27	227,340	8,420	31	338,060	10,905
June 1992	27	306,270	11,343	31	498,060	16,066
July 1992	28	310,260	11,081	31	626,710	20,216
August 1992	26	277,610	10,677	31	634,860	20,479
AVERAGE PER METER DEMAND (CF/MO)			9,265	13,341		
RELATIVE CONSUMPTION (%)		1 1/2" METER 663%		2" METER 954%		

MONTH	3" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND	4" METERS	DEMAND (CF/MO)	PER CAPITA DEMAND
September 1991	8	337,030	42,129	9	849,580	94,398
October 1991	8	343,870	42,984	9	598,230	66,470
November 1991	8	210,860	26,358	9	371,140	41,238
December 1991	6	178,610	29,768	9	338,940	37,660
January 1992	6	182,400	30,400	9	357,720	39,747
February 1992	7	183,920	26,274	9	327,240	36,360
March 1992	7	190,840	27,263	9	406,620	45,180
April 1992	8	244,810	30,601	9	387,310	43,034
May 1992	8	280,250	35,031	9	343,900	38,211
June 1992	8	471,690	58,961	9	839,430	93,270
July 1992	7	393,640	56,234	10	1,128,480	112,848
August 1992	9	539,270	59,919	8	789,520	98,690
AVERAGE PER METER DEMAND (CF/MO)			38,827	62,259		
RELATIVE CONSUMPTION (%)	3" METER		2777%	4" METER		4453%



CANBY UTILITY BOARD

154 N.W. FIRST AVENUE - P.O. BOX 1070 - CANBY, OREGON 97013
PHONE (503) 266-1156
FAX (503) 263-8621

IT PAYS TO OWN THE UTILITY THAT SERVES YOU

January 28, 1992

Steve Applegate
Water Resources Department
3850 Portland Road, NE
Salem, OR 97310

Dear Steve:

Attached is Canby's explanation why it believes that now is the time to acquire a Willamette River Water Right.

The other question is the availability of water in the Willamette. We believe that the information submitted by the Department to the Commission in December demonstrated that water is available.

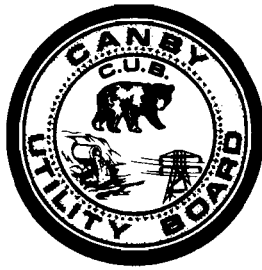
We are prepared to proceed with our application when you and the Commission are ready.

Please call me at 266-1156 if you have questions and thanks for your help.

Very truly yours,

Donald W. Godard

DWG/mj
cc: file



CANBY UTILITY BOARD

154 N.W. FIRST AVENUE - P.O. BOX 1070 - CANBY, OREGON 97013
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IT PAYS TO OWN THE UTILITY THAT SERVES YOU

JAN 30 1991

CANBY UTILITY BOARD WATER NEEDS

CONCLUSION: CH2M projects that water demand in Canby will exceed the design capacity of the Water Treatment System (12.4 cfs) as early as 2000 and as late as 2050. However, Canby estimates that a range of 2000 to 2020 to be more likely. Now is a reasonable time for Canby to seek a water right that it may need within 10 years.

CANBY DESIGN CAPACITY: Currently, Canby uses 6.2 cfs from the Molalla River on a peak day. This is the current capacity of the Water Treatment Plant. However, the Water Treatment System was designed for 12.4 cfs from the Molalla River. Relatively inexpensive modifications to the existing plant (addition of filter tanks) are needed to reach the design capacity.

Canby is planning for the next increment of growth. Should Canby acquire water beyond 12.4 cfs by exercising existing water rights on the Molalla or should it acquire a water right from the Willamette?

ALTERNATIVES: Ultimately, water for Canby will come from the Molalla, Clackamas or Willamette Rivers - regardless of what organization treats it. For environmental reasons, the Willamette is the preferred choice. However, uncertainties exist with the Willamette - is the cost of treating the water reasonable, will it be available, and will the public accept the Willamette as a source of drinking water.

Canby believes that it needs 12.4 cfs from the Molalla and another 12.4 cfs from the Molalla or Willamette. Canby believes it currently has more than 20 cfs water rights in the Molalla - Water Resources estimates 24.33 and CH2M estimates to 26.17 cfs. Canby could agree to a new 12.4 cfs water right from the Willamette with the condition that it not withdraw more than 24.8 cfs from both rivers.

CH2M PROJECTIONS for CANBY after consideration of conservation.

Mid-Range Projection				95% Projection			
Pop.		Peak Day		Pop.		Peak Day	
		MGD	cfs			MGD	cfs
1990	8,937	4.38	6.7	9,205	6.46	9.9	
2000	11,522	5.43	8.4	12,781	9.09	14	
2010	14,107	6.57	10.1	15,852	10.99	16.9	
2020	15,273	7.05	10.9	17,495	11.95	18.4	
2030	16,270	7.44	11.5	18,991	12.95	19.9	
2040	17,096	7.74	11.9	20,283	13.75	21.2	
2050	17,765	7.95	12.2	21,358	14.35	22.1	
Ref	T ES-1	T ES-5		T ES-2	T ES-8		

Canby believes that water demand will increase faster than projected by CH2M because CH2M assumed that Canby would stop growing when the existing Urban Growth Boundary is filled to capacity - a population of 20,000. This is one possible scenario but it would be the lowest growth scenario rather than a median growth projection.

Additionally, CH2M assumed that demand for Canby water would be depressed indefinitely because Canby costs are currently high relative to other utilities. Canby's price of water is currently high relative to other utilities (28 of 32 water utilities studied had lower prices). However, this is not expected to continue indefinitely. Canby's investigation found that its water costs more because it has invested in a Water Treatment Plant and because it receives no property tax revenues. It is believed that other utilities will have to invest in Water Treatment facilities because of the Safe Drinking Water Act and that they will not continue to receive property tax revenues in the future because of Ballot Measure 5.

Reference: WATER SYSTEM DEMAND STUDY, prepared for the Portland Bureau of Water Works by CH2M-Hill, 1991.

CH2M METHODOLOGY: Water demand is calculated to be a function of accounts (population), price and the peak to average consumption (page 4-15). The projections assume that as a community becomes larger, more water-intensive activities occur within it (page 4-15). These projections are estimated water demands after price induced (page 4-15) and programmatic conservation (page ES-8, 2-8, 4-21, 5-14, table 5-9).

POPULATION: These projections also assume a buildout holding capacity of the area (page ES-4). For 1990 to 2010 the Urban Growth boundary is assumed to be unchanged but for later periods the UGB is expanded (page 3-1). However, no change in Canby's UGB was considered (page 3-11 and figure 3-2). Canby's buildout holding capacity was assumed to be 20,000 people within the existing UGB (table 3-5).

The Mid-Range population estimate for 1990 to 2010 is 2.3% (table 3-2) compared to current experience of 4% (City of Canby and Canby Utility Board). For the longer range a 3% growth rate was assumed (page 3-16). Additionally, growth was assumed to slow as the build out capacity was approached (page 3-16). Consequently, Canby's growth for 2010 to 2050 was assumed to be 0.58% per year (table 3-6). Of the 32 districts, 24 are assumed to grow faster.

The study assumed 2.5 dwellings per acre (page 3-13). Although Canby currently has 3.48 people per account (table 3-3) the study assumed 2.65 people per dwelling (table 3-5). The holding capacity is calculated as the product of the number of acres, 2.5 dwellings per acre and 2.65 people per dwelling (page 3-16).

PRICE: Canby's price of water is high, 28 of 32 have lower prices (table 4-5). The projections hold the real price of water constant (page 5-4). This should not persist.

95% PROJECTION: CH2M notes that the population difference between the median and 95% projections is only 20%. The large differences in water demand are due to other factors such as peaking factors (page 5-26 & 27).

RECEIVED

Application No.

71072

DEC 27 1990

RECEIVED

DEC 24 1990

State of Oregon
WATER RESOURCES DEPT.
SALEM, OREGON

WATER RESOURCES DEPT.
SALEM, OREGON

Application for a Permit to Appropriate Surface Water

Applicant(s) Canby Utility Board
(Please print or type - use dark ink)

Mailing Address: 154 N.W. First Avenue, P.O. Box 1070
Canby, OR 97013 266-1156
City State Zip Daytime Phone No.

I (We) make application for a permit to appropriate the following described waters of the State of Oregon:

1. **SOURCE OF WATER** for the proposed use: Willamette River,
a tributary of Columbia River.

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use: 12.4 cubic feet per second, OR 5,600 gallons per minute. If water is to be used from more than one source, give the quantity of water from each: NA

3. **INTENDED USE(s) OF WATER:** Municipal use including domestic
and fire protection

If for more than one use, give the quantity of water from each source for each use; NA

If for **DOMESTIC** use, state the number of households to be supplied; Est. 3200

If for **MUNICIPAL OR QUASI-MUNICIPAL** use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)

Present population approximately 8315; future population of U.G.B. 20,000.

Total water needs approximately 8,000 gpm, total area approximately 3,420 acres
in U.G.B.

If for **MINING** use, state the nature (gold, silver, etc.) of the mines to be served; NA

If for **IRRIGATION**, or other land area use, state the **TOTAL** number of acres to be developed under each use;

Irrigation NA

Other (describe)

4. **DESCRIPTION OF WATER DELIVERY SYSTEM:** *Include dimensions and type of construction of diversion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

Domestic water system development will include screened intake pipe, approximately 50 HP total in two raw water pumps, and 24" raw water pipeline. Treatment facilities will be located approximately 2400 LF south of intake location.

5. **PROJECT SCHEDULE:** *(List month and year)*

Proposed date construction work will begin 1991

Proposed date construction work will be completed 1998

Proposed date water use will be completed 2000

NOTE: A map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the subject property are required under ORS 537.140 and OAR 690 as a part of your application. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. a) *In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):*

 Applicant X CWRE Other (Identify in REMARKS section)

- b) *In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):*

 Applicant X CWRE Other (Identify in REMARKS section)

7. *Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? No . If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.*

REMARKS: _____

Land ownership of diversion site and treatment plant site is
by the City of Canby, P.O. Box 930, Canby, OR 97013. The
point of application of water is the entire Urban Growth Boundary
for the City of Canby.

NOTE: The permit, when issued, is for the beneficial use of water without waste. By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan. It is possible the land use you propose may not be allowed if it is not in keeping with the goals and acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.



Signature of Applicant Donald W. Godard, Manager
Canby Utility Board

11/26/90

Date

Signature of Co-Applicant, if any

Date

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions on or before:

_____, 19____.

WITNESS my hand this _____ day of _____, 19____.

Water Resources Director

By: _____

This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the 27th day of December, 19 90, at 1:39 o'clock, P. M.

APPLICATION NO: 71072

PERMIT NO: _____