

Name City of DundeeBy 2-18-31Address Dundee, OR 97115Date filed October 26th, 1973Priority April 22, 1974Action suspended until C25

Return to applicant

Date of approval NOV 03 1975**CONSTRUCTION**Date for beginning NOV 03 1976Date for completion OCT 01 1977Extended to 10-1-82 10-1-87 - 10/1/92
10-1-97, 10-1-2025Date for application of water OCT 01 1970Extended to 10-1-82 10-1-87 - 10/1/92
10-1-97, 10-1-2025**PROSECUTION OF WORK**Form "A" filed started

Form "B" filed

Form "C" filed

FINAL PROOF

Blank mailed

Proof received

Date certificate issued

Application No. G G 6331Permit No. G G 6017

Certificate No.

Stream Index, Page No. 2-134**FEES PAID**

Date	Amount	Receipt No.
10-26-73	30.00	37197
EXTENSION 11-18-93	100.00	107235
Extens 3-20-98	180.00	19896
Ext. 12-27-04	250.00	71991
9-24-25	1,170.00	146096
	\$1 Cert. Fee	

FEES REFUNDED

Date	Amount	Check No.
8/25/09	250.00	71991

ASSIGNMENTS

Date	To Whom	Address	Volume	Page

REMARKS

#2 3/24-30 175' deep (A. 100)

#4 3/24-36 201' deep " "

#1 3/24-22 all well

#3 3/24-27 175' deep " "

Card for BC OCT 1 0 1992

CARD FOR BC OCT 12 1987

FORM 100 JUN 6 1988

CARD FOR C OCT 22 1992

C. Rem. sent 10-14-97

Application: G-6331

Permit: G-6017

Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

Applicant/Permit
Holder(s)

City of Dundee
ATTN: Brandon Hamilton, Interim City Manager
520 SW 5th St.
Dundee, OR 97115

Proposed Completion Date: 10-1-2050

☐ WRIG...Money Receipted on: 9-24-25

☐ Extension Specialist ...

☐ Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

☒ Tonya Miller...

☒ Recent Assignment (Check WRIS for Update)

☒ Publish on Public Notice (initial 30-day comment): Date of
notice 9.30.25

☒ Update WRIS Database

☒ In the "PNotice Date" field... Enter the date the Extension Application
was published on the Public Notice.

☒ In the "Ext Filed" field... Enter the date the Extension Application was
received.

☒ Yes or ☐ No: Return file to Extension Specialist after PN returned 9.29.25

NOTES:

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A

SALEM, OR 97301-4172

(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **146096**

INVOICE # _____

RECEIVED FROM: City of Dundee

BY: _____

APPLICATION	G-6331
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 39454 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D \$ 1,170.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES \$ _____

OTHER: (IDENTIFY) _____ \$ _____

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407 COPY & TAPE FEES \$ _____

0410 RESEARCH FEES \$ _____

0408 MISC REVENUE: (IDENTIFY) _____ \$ _____

TC162 DEPOSIT LIAB. (IDENTIFY) _____ \$ _____

0240 EXTENSION OF TIME \$ 1,170.00

WATER RIGHTS:

0201 SURFACE WATER \$ _____

0203 GROUND WATER \$ _____

0205 TRANSFER \$ _____

WELL CONSTRUCTION

0218 WELL DRILL CONSTRUCTOR \$ _____

LANDOWNER'S PERMIT

OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE \$ _____ CARD# _____

0210 MONITORING WELLS \$ _____ CARD# _____

OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD) \$ _____

0231 HYDRO LICENSE FEE (FW/WRD) \$ _____

HYDRO APPLICATION \$ _____

TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION \$ _____

RECEIPT:

146096

DATED:

9-24-25

BY:

Lisa J. Munn

Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

CITY OF DUNDEE

Vendor: 9325 OREGON WATER RESOURCES DEPT.

9/17/2025

Check No: 39454

039454

INVOICE #		INV DATE	DESCRIPTION	INV AMOUNT
6017	1	9/16/2025	PERMIT G - 6017	1,170.00

Received**SEP 24 2025****OWRD**

TOTAL AMOUNT

1,170.00



Oregon

Tina Kotek, Governor

Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone 503 986-0900

Fax 503 986-0904

www.oregon.gov/owrd

September 29, 2025

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Right Services Division has received your application for an extension of time for **APPLICATION FILE #: G-6331 (Permit G-6017)**. Your application will be reviewed in the future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

You may continue the use of water under your water right until the Water Resources Department formally takes action on your extension application. If your permit includes conditions, water use reporting, water level measurement reporting, etc., you are required to comply with the conditions.

Any additional development that occurs after the expired completion date, identified on the permit or an extension order, can only be claimed upon an approved extension application.

If you have questions concerning your extension of time application, please contact Jeffrey Pierceall at (503) 979-3213. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's website at: www.wrd.state.or.us.

Application for
Extension of Time
for Municipal and Quasi-Municipal
Water Use Permits



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

Make use of this form, *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, only if the permit uses the word "Municipal" or "Quasi-municipal" in the description of the purpose or use to which water is to be applied.

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

A separate extension application must be submitted for each permit as per OAR 690-315-0070(2). This page, with an original signature by the permit holder of record, must accompany the extension of time application.

This application and a summary of review criteria and procedures that are generally applicable to this application are available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>

I, City of Dundee, Brandon Hamilton, Interim City Administrator

NAME OF PERMIT HOLDER [OAR 690-315-0070(1) and (3)(a)]

NAME OF CONTACT

520 SW 5th St, P.O. Box 220
ADDRESS

Dundee
CITY

OR
STATE

97115
ZIP

PHONE

E-MAIL ADDRESS

the permit holder of:

Application Number G-6331

Permit Number G-6017

[OAR 690-315-0070(3)(b)]

do hereby request that the time in which to:

- ☒ complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, 2025, be extended to **October 1, 2050**,¹

and/or the time in which to:

- ☒ apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2025, be extended to **October 1, 2050**.²

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

Signature

Date

9/17/2025

¹ The Application must demonstrate that the water system construction will be complete within the time being requested.

² The Application must demonstrate that full beneficial use can be made within the time requested.

Before submitting, make sure the following items are included:

- Completed Application for Extension of Time
- Statutory fee of \$1,170. Application received without the correct fee will be returned.
- Signature page (page 1 of application) for Application for Extension of Time
- All supporting documentation and/or evidence referenced in the Application for Extension of Time

MAIL COMPLETED APPLICATION

along with the

STATUTORY FEE (ORS 536.050) TO:

**Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266**

Received

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GENERAL TIPS:

- A separate Application for Extension of Time must be submitted for each permit. OAR 690-315-0070(2).
- Request the reasonable amount of time necessary to fully develop the permit and complete the project. If you don't request enough time, OWRD may be unable to find that you can complete the project within the time requested. The projected peak demand must demonstrate the full rate can be developed within the time period being requested.
- Permit extensions for Municipal and Quasi-Municipal permits are evaluated under OAR Chapter 690, Division 315. Except under limited circumstances (see OAR 690-315-0090), upon issuance of an order approving an extension of time, the permit holder will be required to submit a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 within 3 years. Diversion of water beyond the maximum rate currently diverted under the permit shall only be authorized upon approval of a WMCP.
- The Application for Extension of Time includes detailed tips and instructions to help you respond to each item of the application. Oregon water law and administrative rules require the OWRD to consider each of these items when reviewing a municipal or quasi-municipal water use Application for Extension of Time. However, please feel free to provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0070(3)(p).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights and Adjudications Division.
- Once an Application for Extension of Time is received by OWRD, it will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0080(1)(a).

Reference Materials Needed to Complete this Application

Below is a listing of the items that must be reviewed and considered when completing an Application for Extension of Time for a Municipal or Quasi-Municipal water use permit:

- The subject water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> (the link to the Water Rights Information System (WRIS)). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- Water Management and Conservation Plan (OAR Chapter 690, Division 86), *if applicable*, per OWRD.
- Water System Master Plan, *if applicable*, per Oregon Health Division.

- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; a long-term alternative water supply plan; a plan to monitor the effect of water use on ground water aquifers utilized under the permit, etc.).
- All other water rights (certificates, permits, permit amendments, transfers, and/or new applications) held by the applicant.
- For municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, the completed application must include a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit.

Definitions Pertinent to this Application for Extension of Time

Actual Construction - any physical work performed toward completion of the water system which demonstrates the water right permit holder's good faith and intention to complete the project with reasonable diligence. Actual construction does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. This definition applies to quasi-municipal permit holders, required under the applicable statute, and for municipal water use permits issued on or after June 29, 2005. OAR 690-315-0070(3)(c) and (d), and OAR 690-315-0020(3)(d)(A) and (B).

C-Date – the date specified in the permit or previous extension of time for complete application of water.

Permitted Time Period - period of time between the date when the permit was signed *and* the date specified in the permit for complete application of water

Time Period of the Previous Extension – *For the 2nd Application for Extension of Time* - period of time between the date specified in the permit for complete application of water and the new "extended to date" for complete application of water specified in the 1st approved extension.

For the 3rd, 4th, or . . . nth Application for Extension of Time - period of time between the "extended from date" for complete application of water and the "extended to date" for complete application of water specified in the most recently approved extension.

Undeveloped Portion of the Permit - the portion of the permit that is the difference between the maximum rate, or duty if applicable, specified in the permit and the maximum rate, or duty if applicable, diverted for beneficial use by June 29, 2005, or the C-date of the permit, whichever is later. (ORS 537.230(3)(d) and ORS 537.630(3)(d))

Work and Actions Accomplished - includes both physical work and other activities associated with the development of the water right, such as: water management planning; conservation planning; development of a water master plan for the Oregon Health Division; planning of a diversion system; demand forecasting; flow or water quality monitoring; source evaluation; entry into intergovernmental agreements for water delivery; property acquisition; engagement in

governmental permitting or project financing; procurement of planning, design or construction services; surveying; and any physical work performed toward completion of the system and development of the right (e.g., pumps; pipes; well construction; treatment plant/facilities; transmission systems; distribution systems; and/or intake structures).
OAR 690-315-0080(4).

Completing the Extension of Time Application for Quasi-Municipal or Municipal Use Permits

Please provide the information requested by item numbers 1-13. OWRD will use this information to evaluate your Application for Extension of Time.



TIP: When making a reference to any document, report, and/or plan:

- (1) reference the source document along with any page number(s), table(s) and/or chart(s) used in the response, and
- (2) include a copy of the source document (or appropriate pages) with the extension application.

[OAR 690-315-0070(3)]

1. **Submit the appropriate extension of time fee (\$780), as specified under ORS 536.050.**
If the extension application fee has already been paid, please provide indicate why and when it was paid.

[OAR 690-315-0070(3)(c)]

2. ~~For Quasi-Municipal water use permit holders, provide evidence of the actions taken to begin actual construction on the project if required under the applicable statute. All Quasi-Municipal permits issued prior to October 23, 1999, are generally required to begin actual construction within one (1) year.~~



TIP: See Definition of "Actual Construction"

Begin Date: _____. **Construction of** _____ **began.**

(month/year) (details)

[OAR 690-315-0070(3)(d)]

3. **For Municipal water use permits issued on or after June 29, 2005, evidence of the actions taken to begin actual construction on the project.**



TIP: See definition of "Actual Construction"

Begin Date: 7/1971. **Construction of** POA-1 **began.**
(month/year) (details)

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SEP 24 2025

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4. Provide a description of financial expenditures and evidence of actions taken to develop the water right permit within the permitted time period and, if applicable, within the time period of the most recent extension granted. *Present the list in chronological order in Chart-I.*



TIP: See definitions of "Permitted Time Period", "C-Date", "Time Period of the Previous Extension", "Actual Construction" and "Work and Actions Accomplished".

CHART-I

INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List work/actions done before the permitted was issued – e.g. Well drilled.</i>	COST
7/14/1971	POA-1 (YAMH-4561) was drilled	\$27,000
10/31/1972	POA-2 (YAMH-2660) was drilled	\$27,000
8/31/1972	Supply line construction	-
3/8/1973	POA-3 (YAMH-4551) was drilled	\$27,000
4/1973	Test wells for POA-4 are funded	\$18,000
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED DURING PERMITTED TIME PERIOD (after permit was issued and prior to permit "C-date") <i>List work/actions done during the permitted time period.</i>	COST
11/3/1975	Date the permit was signed - find date above signature on last page of permit.	
-	-	-
11/3/1976	Date the permit specified "Actual Construction Work" shall begin ("A-Date") - not all permits contain this date.	
7/27/1978	Drill Old River Well (YAMH-2672, POA-4)	~\$27,000
10/1/1978	Date the permit specified complete application of water to the use shall be made ("C-Date") - all permits contain this date.	
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED AFTER PERMIT "C-Date" and PRIOR TO THE MOST RECENT EXTENSION OF TIME REQUEST <i>For the 1st Application for Extension of Time: List work/actions done after the permit "C-date" up to the date of this extension request.</i> <i>For Other than the 1st Application for Extension of Time: List any work/actions done after the permit C-Date but prior to the most recent extension.</i>	COST
1996	Abandonment of POA-4 (YAMH-2672)	
1996	Pump Station, Chlorination Facilities, and Well Upgrades	\$310,000
CHART-I (continued)		
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED DURING THE MOST RECENT EXTENSION OF TIME GRANTED <i>For Other than 1st Application for Extension of Time: List any work/actions done during the time period most recent extension.</i>	COST
10/1/1997	Date of the last "Extended From Date" for complete application of water (used on the most recently approved extension of time).	

9/1999	Falcon Crest Subdivision 12-inch Diameter Waterline Construction	\$22,000
10/2001	Maple Street and Linden Lane Waterline Improvements	\$80,000
9/2003	Development of a water system master plan	\$60,000
1/2009	Telemetry added to Vineyard Reservoir (POAs 1,3)	\$5,717
2/2015	Replacement of POA-3 equipment	\$4,000
12/2016	POA-1 motor and pump replacement	\$3,640
8/2017	POA-3 level transducer install	\$2,190
4/2018	POA-1 level transducer install	\$2,070
11/2023	Water management and conservation plan	\$23,100
10/1/2025	Last "Extended To" date for complete application of water (resulting from the most recently approved extension of time).	
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED AFTER THE MOST RECENT EXTENSION OF TIME GRANTED <i>List work/actions done after the last authorized date for complete application of water has passed.</i>	COST
Total Cost to Date		
		\$650,000+

[OAR 690-315-0070(3)(f)]

5. Provide evidence of compliance with conditions contained in the original permit, in any previous extension(s), and/or in any permit amendments (Chart II), or the reason the condition was not satisfied (Chart III).

Conditions requiring a response in the extension of time application include those which:

- Stipulate a specific date by which the permit holder was to accomplish a specific action, such as a condition that requires plans and specifications for a reservoir, a Water Management and Conservation Plan, a ground water monitoring plan or some other document which "...shall be submitted...within two years of permit issuance." If your permit requires submittal of a Water Conservation and Management Plan, please indicate the date the plan was submitted to or approved by OWRD, or whether it is still being drafted, etc.;

and/or

- Are triggered by the use of water, but do not stipulate a specific date. These conditions represent a milestone in development of the project and use of water, such as the permit holder, "shall install...a water meter or other suitable measuring device approved by the Director...before any use of water begins." Another common condition triggered by the use of water is that; "fish screens are to be installed according to Oregon Department of Fish and Wildlife specifications."



TIP:

Any supporting documentation submitted to demonstrate compliance with time-sensitive permit conditions or any conditions from prior permit

7/19/2021

Application for Extension of Time
For Municipal and Quasi-Municipal Water Use Permits
Page 7 of 16

Received
SEP 24 2025
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extension(s) must be clearly referenced and may include, but is not limited to: well construction logs; static water level measurement reports, annual water use reports; a Water Management and Conservation Plan; an alternative long-term water supply plan; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit. If needed, please contact OWRD for assistance in identifying and/or interpreting which conditions in the water permit are pertinent to the Application for Extension of Time.

- 5-A) Describe how each condition has been complied with. Include conditions contained in the original permit (and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time). Include the date when the condition was satisfied.

CHART-II

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
1	Multiple	Access ports are present at each wellhead
2	Multiple	Meters are present at each wellhead
3	Multiple	4 POAs (YAMH-4561, 2660, 4551, and 2672) were finished by 7/27/1978. Due to damage from severe flooding in 1996, POA-4 (YAMH-2672) was abandoned in 1996.

** Condition No: Attach a copy of the permit and, if applicable, any prior permit extensions or permit amendments with conditions identified and hand-numbered in a continuous number sequence throughout all such documents. Responses to Items 5-A and 5-B should reference each condition by number to correspond with the hand-written number sequence on the attached documents containing permit conditions.

- 5-B) If applicable conditions have NOT complied with all, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-III

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
4	10/1/2050	The City has experienced issues with G-6017's POAs (sanding, decreasing yield) and other budget-related limitations for its development that have resulted in incomplete application of water at this time.

[OAR 690-315-0070(3)(g)]

6. Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit. Report water use as of June 29, 2005, or the C-Date of the permit (whichever is later).



TIP: Documentary evidence substantiating the maximum instantaneous rate, or duty if applicable, of water appropriated may include, but is not limited to: water meter records; dedicated electrical meter records; business records; and/or a sworn affidavit.

- 6-A) For Surface Water Permit Extensions:

7/19/2021

Application for Extension of Time
For Municipal and Quasi-Municipal Water Use Permits
Page 8 of 16

Received
SEP 24 2025
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TIP: Report in the same units of measurement as specified in the permit.
In this section, report only water use made under THIS permit:

Maximum instantaneous rate (as of June 29, 2005, or C-date (whichever is later)) =
_____ cfs, _____ or _____
(cubic feet per second)

Maximum instantaneous rate (as of June 29, 2005, or C-date (whichever is later)) =
_____ gpm, _____ or _____
(gallons per minute)

_____ Acre Feet stored as of June 29, 2005, or C-date (whichever is later) = _____ AF

6-B) For Ground Water Permit Extensions:



TIP: Include information from ALL wells that pertain to this permit, including drilled wells not currently used.

CHART-IV

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED						If yes, provide the rate used from this well under each water right. (Typically the total of all uses from a single well will not exceed the well's pumping capacity.)	
			Well Log Number E.g. MULT 60493	Well Tag Number E.g. # 40151 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See below)	Maximum instantaneous rate used by June 29, 2005, or C-date (whichever is later) -- from this well -- under this permit only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?		Permit, Certificate, or Transfer No.	Rate (CFS or GPM)
POA-1 ¹	Springs Well 1	Yes ☒ No ☐	YAMH-4561	NA	Yes ☒ No ☐	0.19 cfs	Yes ☐ No ☒	-	-	
POA-2 ²	Well 4 River Well	Yes ☒ No ☐	YAMH-2660	NA	Yes ☒ No ☐	0.11 cfs	Yes ☐ No ☒	-	-	
POA-3	Springs Well 2	Yes ☒ No ☐	YAMH-4551	NA	Yes ☒ No ☐	0.06 cfs	Yes ☐ No ☒	-	-	
POA-4 ³	Old River Well	Yes ☒ No ☐	YAMH-2672	NA	Yes ☒ No ☐	0 cfs	Yes ☐ No ☒	-	-	
Total instantaneous rate from all wells utilized under this permit used as of June 29, 2005, or C-date (whichever is later)						0.36 cfs				

1: POA-1 is not currently used. It was last used in 9/2015.

2: POA-2 experienced sanding issues and is not currently used. Last used in 1989.

3: POA-4 was originally drilled as YAMH-2762 but was abandoned in 1996 due to flood damage. Historic use data is unavailable.

6-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed with OWRD? Yes ☐ No ☐

Received
SEP 24 2025
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If a Permit Amendment Application has been filed: Transfer No. T _____

Well # _____ : Actual location: _____

Well # _____ : Actual location: _____

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SEP 24 2025

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[OAR 690-315-0070(3)(h)]

7. Provide an estimate of the current population served under this permit and a description of the methodology(ies) used to make the estimate.

Estimate the current population that is supplied water by the municipality or quasi-municipality and if applicable, current population served under this permit. Describe how that estimate was derived, or cite the source document from which the data was obtained. Include any calculations, formulas, supporting documentation, including copies of source documents.

Current Population: 3,249 as of Year: 2024

Methodology used to estimate current population served: ***2024 PSU Certified Population estimate for the City of Dundee***

[OAR 690-315-0070(3)(p)]

8. Report the current peak water demand of the current population served, and a description of the methodology(ies) used to make the estimate.

Identify the total rate, or duty if applicable, of water being used to meet the current peak demand for water from all water rights held by the municipal or quasi-municipal entity. This must be reported in the same units of measurement as specified in the permits, being cfs (cubic feet per second), gpm (gallons per minute), and/or AF (acre-feet – usually only specified on a reservoir right to store water). This total rate should be based on the information provided on "Attachment A" in the column named "*Max Amount of Beneficial Water Used to Date*" [under Item 10-A (a)].

Current Peak Water Demand (MDD): 1.06 MG, 1.55 cfs as of Year: 2024

Methodology used to estimate current peak demand: **A Average daily demand over 5 years (2017-2021) multiplied by a 2.8x peaking factor to approximate maximum day demand in 2021 (1.1 MGD), converted to cfs (2023 WMCP). ADD was converted to gallons per capita per day (gpcpd) and adjusted proportionally based on population change since the publication of the 2023 WMCP (decrease from 3,371 to 3,249).**

[OAR 690-315-0070(3)(k)]

9. Provide a summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if any), relating to the project that have significantly delayed completion of construction or perfection of the right.



TIP:

Such events may include, but are not limited to: the size and scope of the project; financing and/or cash flow issues; local referendums or initiatives; actual growth rates; economic downturns; loss of territory to annexation; water conservation efforts; the need to meet other governmental requirements relating to the project; natural disasters and severe weather; and/or any other events over which the water right permit holder had no control and which delayed development under the permit.

The City manages a portfolio of groundwater and surface water rights with many different PODs and POAs. It must make decisions about development and maintenance of its water system that provide the most financially-efficient path. Currently, many of the City's water rights are held in anticipation of significant population growth over the next 20 years, as referenced in the City's 2023 WMCP and in communication with the City during CwM's site visit. Under the forecasted population growth scenario, the City will have a need for significantly more water supply, and will continue to develop beneficial use under its current water right portfolio (2023 WMCP). POAs authorized under G-6017 were previously used to meet demands, but due to sanding issues, damage from flooding, and interference with the Willamette River, two of the four authorized wells are out of service. Costly deepening or other alterations to the wells to improve their performance have not yet been undertaken due to budgetary constraints. Additionally, POA-1 (Springs Well 1) is currently not operational due to diminishing productivity and its proximity to POA-3 (Springs Well 2). The two wells could not be operated efficiently together, so POA-3 (Springs Well 2) is the only functioning POA on this permit. In addition, the extended permit window has spanned multiple global crises, including the 2008 Global Financial Crisis and the 2020 COVID-19 Pandemic. Both of these events limited the City's ability to plan and execute large capital projects such as those required to develop Permit G-6017. The City is considering the development of this water right within the proposed extension window to support forecasted development and population growth of greater than 50% over the proposed extension window (2023 WMCP; PSU Population Research Center, 2024). In addition to development of this water right, the City is also engaged in active talks with nearby municipalities to organize a regional water right agreement, which occupies valuable time and resources.

[OAR 690-315-0070(3)(I)]

- 10-A. Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use. The Application must demonstrate that the full rate authorized by the permit can be put to beneficial use within the time being requested.

In developing your estimated demand projections for the permit being extended, you should include the following items:

- a) Inventory of Water Rights Held

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List all water rights held, including this permit, currently held by the permit holder. Use the format shown in "Attachment A" (see last page of this Application for Extension of Time). A link to the Water Rights Information System (WRIS), accessed through OWRD's website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> may be a helpful source for compiling this information.

Use the "Use Limitations" column to identify and explain why any water right is not currently utilized to meet current peak water demands, or which is used only in a limited capacity.



TIP: Use limitations include any factors affecting the use of a water right, such as: used for system redundancy; used for emergency back-up water supply; climate patterns or turbidity result in seasonal unavailability; not used due to water quantity issues, etc.

b) Water Supply Contracts and/or Agreements

List any water supply contracts or agreements for water that will be supplied by the permit holder to other entities.

NA

List any water supply contracts or agreements for water that will be supplied from other entities that the permit holder will depend on to meet its own current or anticipated future water needs.

NA

c) Projected Population

Identify the projected population growth rate. The population projection must be extended out, at a minimum, to the year requested for complete application of water. Describe the methodology used to create the population projections such as historical growth rates or any factors affecting growth trends.

Population Growth Rate: 1.2%

Projected Population: 7,428 as of Year: 2050

Methodology used to estimate projected population and population growth rate:

	PSU Forecast for Currently Developed Portion of UGB	Riverside District Forecast	Total Population
2025	-	-	3,249
2040	3,632	2,619	6,251
2050	3,809	2,619	7,428

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Based on information in the 2023 WMCP, the City anticipates an increase in population. This is based on projected population growth of the existing population of 1.2% per year and the development of additional housing areas in the City. Population growth and associated

demand are shown in the included table. Population projections are based on Portland State University's population growth projections for the City as well as the projected buildout population of the planned Riverside development, which should be fully developed in the next 20 years.

d) Future Peak Water Demands

Identify the projected peak water. The peak water demand projection must be extended out, at a minimum, to the year requested for complete application of water, and must demonstrate that full beneficial use may be accomplished within the time requested. Describe the methodology used to create the water demand projection, such as historical growth rates or any factors affecting growth trends. Include a summary of how the subject permit, and other water rights and /or supply contracts held by the permit holder are planned or expected to be used to meet anticipated future water needs

Projected Peak Water Demand: 3.76 cfs as of Year: 2050

Methodology used to estimate peak water demand:

In its 2023 WMCP, Dundee projected demand using a per capita demand approach. Specifically, the City multiplied projections of population presented in Section 5.2 in 2032 and 2042 by a water use factor in units of gallons per person per day (gpcd). The water use factor was calculated by dividing the highest recent MDD by the estimated population of City residents in that year. The highest MDD occurred in 2021 (1.1 mgd or 1.7 cfs constant rate, 2.8x peaking factor) resulting in a demand of 327 gpcd based on a population of 3,371. The demand forecast shows MDD reaching 2.4 mgd (3.76 cfs) by 2050.

	Population	MDD (mgd)	MDD (cfs)
2021 (actual)	3,371	1.1	1.7
2024 (estimated)	3,249	1.06	1.5
2040	6,251	2.04	3.16
2050	7,428	2.4	3.76

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e) Potential Growth

Describe the potential for growth of the service area (such as the annexation of lands or new industrial and/or commercial ventures locating within the service area) and describe how those projects are expected to affect future water demands.

From 2023 WMCP: "Dundee anticipates expansion of its service area to include the Riverside district (also known as the Riverview district) within the 20-year planning period. According to a study conducted by the City in 2019, full build-out of the district would occur within 15 years of initial construction. The City currently predicts construction [of the Riverside District] will commence in 2025, with build-out of the area occurring by 2040" (2023 WMCP).

- f) Completion Date
Provide the date by which the water development is anticipated to be completed and water put to full beneficial use. **October 1, 2050**

[OAR 690-315-0070(3)(l)]

- 10-B. ~~Application for Extension of Time requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.~~



TIP: If you are requesting an extension of greater than 50 years, it is very important to provide all available documentation (including estimates, projections, other related information, and all associated data) supporting the position that the demand projection is consistent with the amount and type of lands and uses to be served by the permit holder.

Show that permit holder's potential for future growth and expansion is feasible and consistent with the amounts and types of lands and uses proposed to be served. Information that may be addressed includes, but is not limited to: land use plan(s); current service area(s) in relation to the urban growth boundary; amounts of lands currently un-served and available for future development; and/or low-density vs. high-density areas.

[OAR 690-315-0070(3)(j) and OAR 690-315-0070(3)(m)]

11. Provide an estimate of the costs to complete water development and summary of the future plan and schedule to complete construction and/or perfect the water right.

Considering the demand projections in Item 10-A, describe major future work and actions that must be accomplished in order to fully develop and perfect the subject permit. Provide a list of the major planning, work and/or actions needed, the approximate time frames, and estimated costs anticipated to complete the water development within the parameters of this permit.

The review of a Capital Improvement Plan (CIP) or other system infrastructure improvement plans may help when formulating a response.

CHART-V

APPROXIMATE DATE RANGE	WORK AND ACTIONS TO BE ACCOMPLISHED	ESTIMATED COST
By 10/1/2050	Recondition, alter, or otherwise improve the performance of existing wells to use the total permitted rate	\$100,000
By 10/1/2050	Construct a new POA to replace one of the three inactive/abandoned POAs on this water right	\$1,150,000
Year: 2050	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
Estimated Total Cost to Complete Development		\$1,250,000 ¹

1. Based on cost from 2016 WMP, adjusted for 2025 dollars

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12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

A justification should integrate information from Items 5-B, 6-A or 6-B, 9, 10-A, and 11 of this application, and should include any other information or evidence to establish that the requested amount of time is reasonable, and that you will be able to complete the project within the amount of time requested.

The City needs the requested time to complete the full application of water under Permit G-6017 due to multiple reasons.

- ***Municipal water planning horizons range from 20 to 50 years, much like the water demand forecasts in the required Water Management and Conservation Plans and Water Master Plans. Development of new green-field projects within the City's UGB include a complex process of annexation, land planning, development proposal review, funding acquisition via loans or grants and the design, contracting and construction of water and other utility service infrastructure to support proposed growth options. From present day, these municipal development activities can reasonably require 10 to 20 years to develop and complete.***
- ***Additionally, the City is just beginning to see new development within its service area, including the "Riverside District", which will contribute an additional 1,200 people by 2032 and 2,619 people by 2042 and two hotels with up to 90 rooms. The development of these areas will cause a rapid increase in the City's demand which will necessitate the development of the additional drinking water capacity afforded by this Permit.***
- ***The City has multiple water resource assets to consider for development. These include a combination of surface water and groundwater certificates and permits. Developing strategies to optimize these assets is currently under review by the City and may include aquifer storage and recovery, construction of an independent City owned water treatment plant, teaming with other local municipal partner or joining a water consortium to develop Willamette River surface water rights at a co-owned treatment plant. These strategies and negotiations develop over years of discussion and depend heavily on available state and federal funding, home development pressure, and the political priorities set by City Council of each of the participating municipal entities. Alignment of these variables can require 10, 20 or more years before a new water source project is created and fully developed. Based on these common factors a 25 year extension is reasonable.***
- ***Developing a new water source can take many years of technical assessment in the form of feasibility studies. Feasibility studies do not always result in a viable project, and the City might require ten or more year to develop another water source option. Aquifer assessments in the form of costly and complex subsurface investigations to classify the subsurface in the area where a new POA might be installed will take about 2 years to complete but does not guarantee that the new water source will be successful. The City's last feasibility study (for a collector well under Permit S-44462) was completed in***

2014. The result of that study found that a collector well was not feasible at the selected location. Since that time the City has not had the funding to continue with further subsurface investigations. It is reasonable that when multiple feasibility studies are required to successfully complete a new water source, the time line for development can be on the order 20 years or longer.

- *Finally, the City anticipates additional revenue to come from the increases in service area population, which will support the development of new water supply infrastructure.*

[OAR 690-315-0070(3)(o)]

13. Provide any other information you wish OWRD to consider while evaluating the Application for Extension of Time

Development of additional housing within the Dundee UGB aligns with the Oregon Housing and Community Services Department's (OHCS) Statewide Housing Plan, which aims to increase the availability of housing to address statewide housing shortages. Additional housing will require additional water resources.

[OAR 690-315-0070(3)(q)]

14. For Municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, provide a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

Fish persistence condition is present in 2009 Final Order. Please see Attachment C

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SEP 24 2025
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Water Rights Inventory for (Name of Entity) City of Dundee
(List of All Permits, Permit Amendments, Certificates, Transfers, New Applications)

Attachment "A"
For Extension of
Time Application

Ground Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. ³ or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diversion	Authorized Completion Date ⁴	Notes or Limitations to water use ⁵
									Maximum Instantaneous Rate Diverted to Date (cfs)		
G-6331	G-6017	7/22/1974	NA	NA	CRBG, Late Tertiary Sediments	Springs Well 1	Municipal	0.97	0.19	10/1/2025	NA
						Well 4 River Well			0.11		
						Springs Well 2			0.06		
						Old River Well			0		
G-1217	G-1263	11/28/1958	29157	NA	CRBG	Deep Well 3	Municipal	0.18	0.18	NA	NA
G-10904	G-10148	3/24/1983	61759	NA	CRBG	Martsof Wells 5 & 6	Municipal	0.60	0.60	NA	NA
G-11866	G-11058	3/24/1988	87588	NA	CRBG	Springs Well 7	Municipal	0.33	0.33	NA	NA
G-12568	G-12685	6/7/1991	NA	NA	CRBG	Springs Well 8	Municipal	1.78	0.39	10/1/2025	NA
						1 st Street Well 9			0.29		
						Alder Street Well 10			0.16		
G-14066	G-17484	5/19/1995	NA	T-11928	CRBG	Well 13 Watershed	Municipal	0.5	0.5	10/1/2025	Combined rate not to exceed 0.8 cfs.
						Springs Well 11/13					
G-14070	G-17485	5/19/1995	NA	T-11928	CRBG	Springs Well 11/13	Municipal	0.5	0.05	10/1/2025	

³ P.A. = Permit Amendment

⁴ Date by which full application of water is to be made within the terms and conditions of the permit (date will be specified in the permit or on the last extension Final Order).

⁵ If a particular water right certificate, permit, or transfer is not being utilized to meet current demands, or its use is somehow limited due to quality, seasonal, etc. limitations, or if a the actual diversion rate is less than a certificated rate, please explain why.

7/19/2021

WRAD
Municipal and Quasi-Municipal Water Use Permits

Application for Extension of Time

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Surface Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diversion	Authorized Completion Date	Notes or Limitations to water use
									Maximum Instantaneous Rate Diverted to Date (cfs)		
S-9028	S-5932	6/20/1923	8781	NA	Two Springs, Otter/Harvey Creek	Two Springs	Municipal	0.5 cfs	0.5	NA	NA
S-12629	S-8978	3/25/1929	8817	NA	Two Springs, Otter Brook/Harvey Creek	Two Springs	Domestic, fruit and nut dryers and fruit packing house	0.05 cfs	0.05	NA	NA
S-18173	S-13880	6/8/1939	14654	NA	Mossy Springs, Otter Brook/Harvey Creek	Mossy Spring	Domestic	0.0007 cfs	0.0007	NA	NA
S-22077	S-17367	11/7/1946	17145	NA	Unnamed Stream	Harvey Creek	Municipal	0.25	0.25	NA	NA
S-58951	S-44462	7/24/1979	NA	NA	Willamette River	Willamette River	Municipal	4.0	0	10/1/2025	2023 WMCP FO limited development to 1.10 cfs

Pending New Water Right Applications

Application No.	Priority Date	Source	Proposed Use	Proposed Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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Municipal and Quasi-Municipal Water Use Permits

Application for Extension of Time

Attachment B
Permit G-6017

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SEP 24 2025

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Permit No. G-6017

Attachment B

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon

I, City of Dundee
(Name of applicant)
of Dundee, Oregon
(Postoffice Address), county of Yamhill
state of Oregon, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation

1895 an Oregon corporation

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated Nos. 2 and 4 - Willamette River; No. 3 - unnamed creek
(Name of stream)

tributary of Willamette River

2. The amount of water which the applicant intends to apply to beneficial use is _____ cubic feet per second or 2-100 gallons per minute. No. 2 - 115 GPM; No. 3 - 100 GPM; No. 4 - 120 GPM

3. The use to which the water is to be applied is municipal water system for City
of Dundee

4. The well or other source is located XXXX ft. XXXX ft. XXXX from the
(N. or S.) (E. or W.)
corner of See Attached Sheet (for 2, 3 & 4) #1 Well is located
(Section or subdivision)
North 41° 22' 22" West 2066.80' From 1/4 Corner Common B to
(If preferable, give distance and bearing to section corner)
Section 26 T3S, R3W Wm. Yamhill Co. Oregon
(If there is more than one well, each must be described. Use separate sheet if necessary)
being within the 1/4 Northeast quarter of Sec. 27, Twp. 3 South, R. 3 West,
W. M., in the county of Yamhill

5. The _____ to be _____ miles
(Canal or pipe line)
in length, terminating in the _____ of Sec. _____, Twp. _____
(Smallest legal subdivision)
R. _____, W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is City municipal system

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Valved #1 or direct flow into Spring intake
when pumping

8. The development will consist of three additional wells 7. #1 having a
No. 2 - 12" No. 4 12" & 16" (Give number of wells, tunnels, etc.) No. 2 - 115' No. 4 - 200' No. 2 115'
diameter of No. 3 - 8" inches and an estimated depth of No. 3 - 170 feet. It is estimated that No. 3 40'
feet of the well will require steel casing. Depth to water table is estimated No. 2 - 29'
No. 3 - 01 No. 4 - 30 #1 - 106 GPM ARTESIAN
(Kind) (Feet)

CANAL SYSTEM OR PIPE LINE— SEE MAP OF CITY SYSTEM

9. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake in.; in size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use, ft. Is grade uniform? Estimated capacity, sec. ft.

11 - 100 GPM LINE SHAFT TURNING

10. If pumps are to be used, give size and type No. 2 - 115 GPM deep well turbine; No. 3 - 100 GPM submersible; No. 4 - 120 GPM submersible

21 - 15 HP 440 3 PHASE ELECT

Give horsepower and type of motor or engine to be used No. 2 - 20 HP 440 3 phase electric; No. 3 - 10 HP, 220 volt 3 phase electric; No. 4 - 20 HP 440 volt 3 phase electric

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

No. 2 - 400 feet from Willamette River 30 feet above; No. 3 is 35 feet from unnamed creek 3 feet above; No. 4 is 100 feet from Willamette River 35 feet above

12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands

Township N. or S.	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
3 South	3 West	26	All	640
3 South	3 West	25	All	640
3 South	3 West	27	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	NE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6

(If more space required, attach separate sheet)

(See Attached Sheet)

Character of soil

Kind of crops raised quasi municipal

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APPLICATION FOR A PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON Permit No. G _____

④ Well No. 2 is located N 71°00'39"E 4377.26 feet
~~May 13 feet North 11° 09' 30" East, and~~

~~1141.04 feet South 89° 55' East and 100.5 feet South 89° 20' East~~ from the Southwest corner of Levi Hagey Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Southwest quarter of the Southwest quarter of Section 30, Township 3 South, Range 2 West.

Well No. 3 is located N 41°45'13"W 2126.22 feet
~~122.82 feet North 89° 45' East and 1580 feet~~

~~North 89° 15' East~~ from the quarter corner on the East line of Section 27, Township 3 South, Range 3 West, being within the Northwest quarter of the Northeast quarter of Section 27, Township 3 South, Range 3 West.

Well No. 4 is located N 78°42'54"E 3816.42 feet
~~1569.14 feet North 71° 09' 30" East and 2141.88~~

~~feet South 89° 55' East and 917.94 feet South 89° 20' East~~ from the Southwest corner of Levi Hagey Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Northeast quarter of the Northeast quarter of Section 36, Township 3 South, Range 3 West.

Letter dated May 3, 1974

Application No. 6-6331
Permit No. G 6017

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SEP 24 2025
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12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands.

TOWNSHIP N. or S.	RANGE E. or W. of WILLAMETTE MERIDIAN	SECTION	FORTY-ACRE TRACT	NUMBER ACRES TO BE IRRIGATED
3 South	3 West	35	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	34	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	34	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	35.2
3 South	3 West	36	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	8.8
3 South	2 West	31	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	5.8
3 South	2 West	30	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	NW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5

Application No. C-6331
Permit No. G 6017

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MUNICIPAL SUPPLY—

13. To supply the city of Dundee, Oregon
in Yamhill county, having a present population of 820
and an estimated population of 1,500 in 1985.

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

14. Estimated cost of proposed works, \$.....410,000.00.....

15. Construction work will begin on or before August 1, 1973

16. Construction work will be completed on or before August 1, 1974

17. The water will be completely applied to the proposed use on or before August 1, 1975.

18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. G-1263, P-17367, P-5932, P-8978, P-13880

W. S. Dunning, Jr. City Engineer
(Signature of Engineer)

Remarks: _____

STATE OF OREGON, } ss.
County of Marion, }

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction and completion

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before April 12, 1974.

WITNESS my hand this 12th day of February, 1974.

RECEIVED
APR 22 1974
STATE ENGINEER
SALEM, OREGON

CHRIS L. WHEELER
STATE ENGINEER
By *Thos. E. Shook*
Thos. E. Shook ASSISTANT

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SEP 24 2025

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STATE OF OREGON, }
County of Marion, } ss.

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.97 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from four wells, being 0.22 c.f.s. from #1, 0.26 c.f.s. from #2, 0.22 c.f.s. from #3, & 0.27 c.f.s. from #4.

The use to which this water is to be applied is for municipal purposes.

If for irrigation, this appropriation shall be limited to _____ of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed _____ acre feet per acre for each acre irrigated during the irrigation season of each year; _____

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SEP 24 2025

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and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

1 The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

2 The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is April 22, 1974

3 Actual construction work shall begin on or before November 3, 1976 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1977.

4 Complete application of the water to the proposed use shall be made on or before October 1, 1978.

WITNESS my hand this 3rd day of November, 1975.

James R. Seaton
Water Resources Director

F.R.

Application No. G-6331
Permit No. G-6017

PERMIT

TO APPROPRIATE THE GROUND
WATERS OF THE STATE
OF OREGON

This instrument was first received in the
office of the State Engineer at Salem, Oregon,
on the 26 day of October
1973, at 3:30 o'clock P. M.

Returned to applicant:

Approved:

Recorded in book No. _____ of
Ground Water Permits on page G 6017

STATE ENGINEER

Drainage Basin No. 2 page 134

for 1302

Attachment C
2009 EFO Highlighted Conditions

Received
SEP 24 2025
OWRD

Attachment C

Oregon Water Resources Department Water Rights Division

Water Rights Application
Number G-6331

Received
SEP 24 2025
OWRD

Final Order Extension of Time for Permit Number G-6017

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

The Department issued Permit G-6017 on November 3, 1975. The permit called for completion of construction by October 1, 1977, and complete application of water to beneficial use by October 1, 1978. On March 20, 1998, City of Dundee submitted an application to the Department for an extension of time for Permit G-6017. In accordance with OAR 690-315-0050(2), on August 4, 2009, the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2025 and to extend the time to fully apply water to beneficial use to October 1, 2025. The protest period closed September 18, 2009, in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. Development Limitations

- 5 Diversion of any water beyond 0.53 cfs under Permit G-6017 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension of time application. Use of water under Permit G-6017 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 that is on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders.

2. Persistence of Fish Conditions

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Willamette River as recommended by ODFW are in Table 1, below; flows are to be measured on the Willamette River at Salem, Oregon (USGS Gage Number 14191000, or its equivalent).

Table 1

MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT USGS GAGE 14191000 SALEM, OREGON	
Month	Cubic Feet per Second
July 1– October 31	5,630
November 1 – March 31	6,000
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B. Determining Water Use Reductions - Generally

The use of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted must be reduced in proportion to the amount by which the flows shown in Table 2 are not met based on a seven day rolling average of mean daily flows measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent). This reduction will be adjusted by a Consumptive Use Percentage, when applicable, as per Item 2.D., below. The overall reduction to the maximum total amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted will not exceed 20%.

C. Percent of the Undeveloped Portion with Impacts on Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, 72.6% of the undeveloped portion under this permit impacts Willamette River surface water.

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D. Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages

Utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.D.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates

Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.D.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.D.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Willamette River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Willamette River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.D.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum total amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that begins 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.D.d., or 2.D.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages

Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

E. Examples

Example 1:

On July 15, the last seven mean daily flows were 7000, 6500, 6000, 5500, 5250, 5000 and 4750 cfs. The seven day rolling average is 5714 cfs. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 5,630 cfs target flows for July 15.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 5011 cfs, the target flow would be missed by 11%. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would be reduced because the 7 day average of mean daily flows is less than the 5,630 cfs target flow for July 15.

$$(100 - [(5011 / 5630) \times 100\%]) = 11\%$$

Step 2: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 10.0 cfs and 72.6 % of the undeveloped portion impacts Willamette River surface water, then the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally could be diverted would be 7.3 cfs.

$$(10.0 \text{ cfs} \times [72.6\% / 100]) = 7.3 \text{ cfs}$$

Note: In Steps 3 – 4, the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally can be diverted will be referred to as the "qualified undeveloped portion."

Step 3: Assuming the Consumptive Use Percentage is 78.7%⁹ during the month of July and the utilization of this percentage is authorized, and the target flow is missed by 11% (from Step 1), then the reduction to the qualified undeveloped portion would be 8.7%.

$$([11\% \times 78.7\%] / 100) = 8.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, the qualified undeveloped portion would be reduced only by the % by which the target flow is missed – 11% in this example).

⁹ Currently, the City of Dundee may not use Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition. The use of the Consumptive Use Percentage 78.7%¹⁰ only for illustrative purposes in this example.

Step 4: In this example, the reduction to the qualified undeveloped portion due to the missed target flow percentage adjusted by the Consumptive Use Percentage would be 0.63 cfs.

$$(7.3 \text{ cfs} \times [8.7\% / 100]) = 0.63 \text{ cfs}$$

Step 5: This 0.63 cfs reduction is 8.6% of 7.3 cfs (the maximum total amount of the undeveloped portion of the permit with surface water impacts and can legally be diverted as calculated in Step 2). This 8.6% does not exceed the 20% maximum overall reduction.

$$([0.63 / 7.3] \times 100\%) = 8.6\%$$

Step 6: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 9.37 cfs

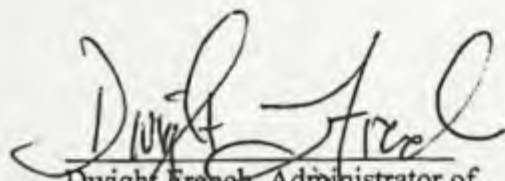
$$(10.0 \text{ cfs} - .63 \text{ cfs}) = 9.37 \text{ cfs}$$

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application G-6331, Permit G-6017, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended to October 1, 2025. The deadline for applying water to full beneficial use is extended to October 1, 2025.

DATED: October 6, 2009


Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

Received
SEP 24 2025
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If you have any questions about statements contained in this document, please contact
Scott Kudlemyer at (503) 986-0813.

If you have other questions about the Department or any of its programs, please contact our
Water Resources Customer Service Group at (503) 986-0900.

Received
SEP 24 2025
OWRD



Oregon

John A. Kitzhaber, MD, Governor

G6331

Water Resources Department
North Mall Office Building
725 Summer St. NE, Suite A
Salem, OR 97301
Phone 503-986-0900
FAX 503-986-0904
www.wrd.state.or.us

November 27, 2012

City of Dundee
Attn: Rob Daykin, City Administrator
PO Box 220
Dundee, OR 97115

Subject: Water Management and Conservation Plan

Dear Mr. Daykin:

Thank you for your response to my review of the City of Dundee's (City) Water Management and Conservation Plan (plan) and submittal of final revisions to the plan.

The Department has reviewed the final revised plan and determined it to be generally consistent with the relevant requirements under OAR Chapter 690, Division 086. Therefore, please find the enclosed final order approving the City's Water Management and Conservation Plan and authorizing the diversion of up to 1.55 cfs of water under Permit S-44462 and up to a combined total not to exceed 0.8 cfs of water under Permits G-12736 and G-13035. *(This authorization does not allow the use of water in excess of the quantity limitation specified in each permit, being no more than 0.5 cfs under Permit G-12736 and no more than 0.5 cfs under Permit G-13035.)*

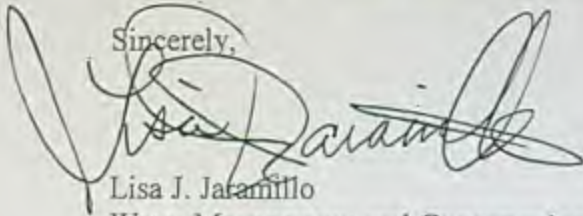
The attached final order specifies that:

- The City of Dundee's plan shall remain in effect until **November 21, 2022**;
- The City is required to submit a progress report to the Department by **November 21, 2017**, detailing progress made toward the implementation of conservation benchmarks scheduled in the plan and documenting the City's diligence in pursuing the development of water under Permits S-44462, G-12736 and/or G-13035; *and*
- The City must submit an updated Water Management and Conservation Plan to the Department by **November 21, 2021**.

NOTE: The deadline established in the attached final order for submittal of an updated water management and conservation plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of Dundee from any existing or future requirement(s) for submittal of a water management and conservation plan at an earlier date as established through other final orders of the Department.

We appreciate your cooperation in this effort. Please do not hesitate to contact me at 503-986-0880 or Lisa.J.Jaramillo@wrд.state.or.us if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lisa J. Jaramillo', written over the word 'Sincerely,'.

Lisa J. Jaramillo
Water Management and Conservation Analyst
Water Right Services Division

Enclosure

cc: WMCP File
Appl. S-58951 (Permit S-44462)
Appl. G-6331 (Permit G-6017)
Appl. G-12568 (Permit G-12685)
Appl. G-14066 (Permit G-12736)
Appl. G-14070 (Permit G-13035)
Mike McCord, District #16 Watermaster
Murray, Smith & Assoc., Inc., Attn: Mike McKillip, P.E., 121 SW Salmon, Suite 900, Portland, OR 97204

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water	)	FINAL ORDER APPROVING A
Management and Conservation Plan for	)	WATER MANAGEMENT AND
City of Dundee, Yamhill County	)	CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Findings of Fact

1. The City of Dundee (City) submitted a Water Management and Conservation Plan (plan) to the Water Resources Department (Department) on November 15, 2011. The plan was required by conditions set forth in the final orders approving extensions of time for Permits G-6017, G-12685, G-12736, G-13035 and S-44462.
2. The Department published notice of receipt of the plan on November 22, 2011, as required under OAR Chapter 690, Division 086. No comments were received.
3. The Department provided written comments on the plan to the City on February 9, 2012, and in response, the City submitted a final revised plan on Nov. 14, 2012.
4. The Department reviewed the final revised plan and finds that it contains all of the elements required under OAR 690-086-0125.
5. The projections of future water needs in the plan demonstrate a need of up to 1.55 cfs of surface water available under Permit S-44462 and/or up to 0.8 cfs of ground water under Permits G-12736 and G-13035 to help meet overall demands of 2.66 cfs (1.72 million gallons per day) anticipated in 20 years. These projections are reasonable and consistent with the City's land use plan. The development of the sources authorized under these permits is dependent upon budgetary issues, as well as the physical attributes of the surface water and ground water sources themselves.

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

6. The City's system is fully metered and has a rate structure that includes a base rate and volumetric charge. Unaccounted-for water is estimated at 18.6% percent.
7. The plan includes 5-year benchmarks for implementation and/or continuation of the following water conservation activities: full metering of the water system; replacement of small customer meters, as needed; performing annual water audits; maintaining a rate structure based on the amount of water used; budgeting funds annually toward replacement of aging water mains; and including water conservation information in the City's summer newsletter distributed to customers in July of each year and posted on the City's web site.
8. The plan includes 5-year benchmarks to develop: a maintenance and calibration methodology for production meters and large-size meters; a leak detection and repair methodology to work toward reducing annual water loss to 10 percent; and a systematic and documented methodology for tracking and/or estimating authorized and unauthorized unmetered water use. The plan also includes 5-year benchmarks to evaluate the feasibility of developing: a non-potable water supply as part of the new wastewater treatment facility; a financial and technical assistance program to encourage implementation of conservation measures; a supplier-financed fixture retrofitting and replacement program; and any other identified measures that would improve water use efficiency.
9. The plan identifies ground water, the Willamette River, Mossy Springs, Unnamed Springs and an Unnamed Stream formed by springs as the sources of the City's water rights. Additionally, the plan accurately and completely describes the listed fish species that occur in the Willamette River in the vicinity of the City's point of diversion, being Upper Willamette River Chinook (*federally-listed as Threatened*) and Upper Willamette River Steelhead (*state-listed as Sensitive-Vulnerable and federally-listed as Threatened*). The plan also accurately and completely identifies the water quality parameters for which the Willamette River has been 303(d) listed by the Oregon Department of Environmental Quality.
10. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of three stages of alert with concurrent curtailment actions.
11. The diversion of water under Permits S-44462, G-12736 and/or G-13035 will be initiated and/or expanded during the next 20 years and is consistent with OAR 690-086-0130(7), as follows:
 - a. As evidenced by the 5-year benchmarks described in Findings of Fact #7 and #8, the plan includes a schedule for development of conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources;
 - b. Considering that the water savings generated by the conservation measures established in this WMCP cannot fully meet the City's projected 20-year peak demand, and that the wholesale purchase of water from the nearby Cities of Dayton and/or Lafayette is not practical due to the cost of building infrastructure necessary to transport water and because excess water supply is not available from those cities, the increased diversion of water under Permits S-44462, G-12736 and/or G-13035 is the most feasible and appropriate water supply alternative available to the City; **and**

- c. As the City pursues future development of a surface water supply from the Willamette River, they will be required to address any mitigation issues that may arise as a result of the Federal Endangered Species Act, Clean Water Act and/or Safe Drinking Water Act. Additionally, the City is required to comply with conditions set forth in the Final Orders issued by the Department on October 6, 2009 approving Extensions of Time for Permits S-44462 and G-6017 to protect minimum fish flow needs in the Willamette River in order to maintain the persistence of listed fish species in the portions of the river affected by the City's water use under these permits.

Conclusion of Law

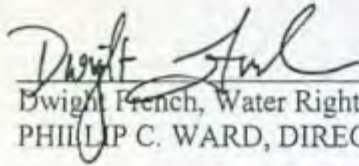
The Water Management and Conservation Plan submitted by the City of Dundee is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

1. The City of Dundee Water Management and Conservation Plan is approved and shall remain in effect until November 21, 2022, unless this approval is rescinded pursuant to OAR 690 086-0920.
2. The limitation of the diversion of water under Permit S-44462 established by the Extension of Time approved on October 6, 2009 is removed and, subject to other limitations or conditions of the permit, the City of Dundee is authorized to divert up to 1.55 cfs under Permit S-44462.
3. The limitations of the diversion of water under Permits G-12736 and G-13035 established by the Extensions of Time approved on September 29, 2006 are removed and, subject to other limitations or conditions of the permits, the City of Dundee is authorized to divert a combined total of up to 0.8 cfs under Permits G-12736 and G-13035. This condition does not allow the use of water in excess of the quantity limitation specified in each permit, being no more than 0.5 cfs under Permit G-12736 and no more than 0.5 cfs under Permit G-13035.
4. The City of Dundee shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 086 (effective November 1, 2002) within 10 years and no later than November 21, 2021.
5. The updated plan (*referenced in Condition #4 above*) shall provide a description of the City's development of Permits S-44462, G-12736 and/or G-13035. The description should identify: 1) actions taken to construct infrastructure necessary to develop the authorized source(s) of water under the permits; 2) compliance with any mitigation actions required as a result of development of the permits; and 3) the extent to which water has been diverted under each of the permits (*i.e., identify the maximum rate of diversion of water under each of the Permits S-44462, G-12736 and/or G-13035*).
6. The City of Dundee shall submit a progress report by November 21, 2017, containing the information required under OAR 690-086-0120(4) and information documenting the City's diligence in pursuing the development of water under Permits S-44462, G-12736 and/or G-13035 (*see Condition #5 above*).

7. The deadline established herein for the submittal of an updated Water Management and Conservation Plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of Dundee from any existing or future requirement(s) for submittal of a Water Management and Conservation Plan at an earlier date as established through other final orders of the Department.

Dated at Salem, Oregon this 21 day of November, 2012.



Dwight French, Water Right Services Administrator for
PHILLIP C. WARD, DIRECTOR

Mailing date: NOV 27 2012

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-6331

Final Order
Extension of Time for Permit Number G-6017

Appeal Rights

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At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. Development Limitations

Diversion of any water beyond 0.53 cfs under Permit G-6017 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension of time application. Use of water under Permit G-6017 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 that is on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders.

2. Persistence of Fish Conditions

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Willamette River as recommended by ODFW are in Table 1, below; flows are to be measured on the Willamette River at Salem, Oregon (USGS Gage Number 14191000, or its equivalent).

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June 1 – 15	12,600
June 16 – 30	8,500

B. Determining Water Use Reductions - Generally

The use of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted must be reduced in proportion to the amount by which the flows shown in Table 2 are not met based on a seven day rolling average of mean daily flows measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent). This reduction will be adjusted by a Consumptive Use Percentage, when applicable, as per Item 2.D., below. The overall reduction to the maximum total amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted will not exceed 20%.

C. Percent of the Undeveloped Portion with Impacts on Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, 72.6% of the undeveloped portion under this permit impacts Willamette River surface water.

D. Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages

Utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.D.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates

Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.D.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.D.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Willamette River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Willamette River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.D.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum total amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that begins 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.D.d., or 2.D.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages

Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

E. Examples

Example 1:

On July 15, the last seven mean daily flows were 7000, 6500, 6000, 5500, 5250, 5000 and 4750 cfs. The seven day rolling average is 5714 cfs. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 5,630 cfs target flows for July 15.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 5011 cfs, the target flow would be missed by 11%. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would be reduced because the 7 day average of mean daily flows is less than the 5,630 cfs target flow for July 15.

$$(100 - [(5011 / 5630) \times 100\%]) = 11\%$$

Step 2: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 10.0 cfs and 72.6 % of the undeveloped portion impacts Willamette River surface water, then the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally could be diverted would be 7.3 cfs.

$$(10.0 \text{ cfs} \times [72.6\% / 100]) = 7.3 \text{ cfs}$$

Note: In Steps 3 – 4, the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally can be diverted will be referred to as the “qualified undeveloped portion.”

Step 3: Assuming the Consumptive Use Percentage is 78.7%⁹ during the month of July and the utilization of this percentage is authorized, and the target flow is missed by 11% (from Step 1), then the reduction to the qualified undeveloped portion would be 8.7%.

$$([11\% \times 78.7\%] / 100) = 8.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, the qualified undeveloped portion would be reduced only by the % by which the target flow is missed – 11% in this example).

⁹ Currently, the City of Dundee may not use Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition. The use of the Consumptive Use Percentage 78.7%¹⁰ is only for illustrative purposes in this example.

Step 4: In this example, the reduction to the qualified undeveloped portion due to the missed target flow percentage adjusted by the Consumptive Use Percentage would be 0.63 cfs.

$$(7.3 \text{ cfs} \times [8.7\% / 100]) = 0.63 \text{ cfs}$$

Step 5: This 0.63 cfs reduction is 8.6% of 7.3 cfs (the maximum total amount of the undeveloped portion of the permit with surface water impacts and can legally be diverted as calculated in Step 2). This 8.6% does not exceed the 20% maximum overall reduction.

$$((0.63 / 7.3) \times 100\%) = \underline{8.6\%}$$

Step 6: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 9.37 cfs

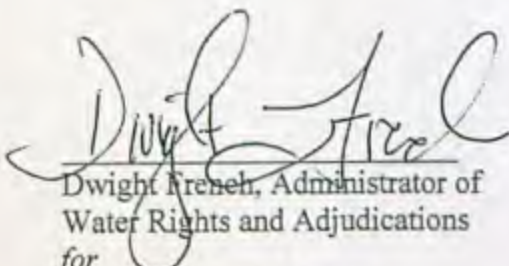
$$(10.0 \text{ cfs} - .63 \text{ cfs}) = 9.37 \text{ cfs}$$

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application G-6331, Permit G-6017, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended to October 1, 2025. The deadline for applying water to full beneficial use is extended to October 1, 2025.

DATED: October 6, 2009


Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

If you have any questions about statements contained in this document, please contact Scott Kudlemyer at (503) 986-0813.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: October 6, 2009

Application G-6331
Permit G-6017

Original mailed to permit holder:

City of Dundee
Attn: Ray Daykin, City Administrator
PO Box 220
Dundee, OR 97115

Copies Mailed	
By:	<u>AS</u> (SUPPORT STAFF)
on:	<u>10/7/09</u> (DATE)

Copies sent to:

1. WRD - App. File G-6331/ Permit G-6017
2. WRD - Sarah Henderson, Technical Services
3. Justin D. Gericke, Jordan Schrader Ramis PC, PO Box 230669, Portland, OR 97281
4. Chris Uber, P.E., Murray, Smith & Associates, 121 SW Salmon, Suite 900, Portland, OR 97204
5. ~~WRD - Support Staff, Salem~~

Fee paid as specified under ORS 536.050 to receive copy:

6. None

Receiving via e-mail (10 AM day of signature date)

7. WRD - Water Master District 16 - Mike McCord, Salem

Done by SA Date 10/7/09

CASEWORKER: ALR

Permit Extension Ground Water Review

Date: March 6, 2006
To: Doug Woodcock, Ground Water Section Manager
From: Karl C. Wozniak, Permit Extension Review
Subject: Ground Water Review for File #G- 6331 / Permit #G- 6017
(Date permit issued: November 3, 1975)

The above referenced permit is currently being reviewed for an extension of time. Before I can determine whether or not an extension of time should be granted, a Ground Water review for this file is necessary. Special designations affecting this permit are as follows:

NOTE: Original Division 9 review completed by: NA

- ☐ Located within a Ground Water Administrative Area (Critical, Limited, etc.) _____
- ☐ 5-Year Limited Permit
- ☐ Other: _____
- ☒ None (no special designations)

For Ground Water / Hydrology Staff Use:

Please answer the following questions. If necessary, attach an additional sheet.

1. Does the ground water source under this permit have the potential for substantial interference with surface water? Yes
[NOTE: Applies ONLY to Municipal permits issued before November 2, 1998 - see OAR 690-315-0080(1) & (2)]
2. Should any additional conditions be added to this permit? No
3. Should the extension of time request be **DENIED** due to ground water supply concerns?
No
[NOTE: Does NOT apply to Quasi-Municipal or Municipal permits issued on or before November 2, 1998 - see OAR 690-315-0080(5)]
4. Should the Department establish a new reference level for water level declines due to the failure of permittee to submit annual measurements? NA
5. Other issues or concerns? The city indicates that well # 4 has been abandoned but no abandonment log is on file at Water Resources. The city is using different numbers for the wells originally listed on this application. See attached memo for a cross-reference list.

State of Oregon
Water Resources Department

Interoffice Memorandum

March 1, 2006

To: Water Rights Files G-6331
From: Ground Water Hydrology Section, Karl C. Wozniak
Subject: Status of wells listed as POAs, Permit G-6017

Four wells are specified on the application and the permit. Wells 1, 2, & 3 pre-date the application and are readily identifiable from information listed on the application. Well 4 is not readily identifiable as the city drilled several wells in the vicinity of the proposed point of appropriation. The city uses different numbers and names for these wells than originally designated on the water right application.

Well Name on Permit G-6017	Current City Well Name	OWRD Well Log ID	Hydrogeologic Unit	Total Depth	Date Completed
Well 1	City Well 1	YAMH 4561	Columbia River Basalt	104	07/18/1971
Well 2	City Well 4	YAMH 2660	Alluvial Sediments	115	10/30/1972
Well 3	City Well 2	YAMH 4551	Columbia River Basalt	200	03/08/1973
Well 4	River Well	YAMH 2672	Alluvial Sediments	313	07/27/1978

City wells 1 and 2 are 30 feet apart. Current city maps show city well 1 (104 ft deep) as the westerly well. The application and map in file G-6331 indicate that well 1 is the easterly well.

City well 4 was visited by USGS personnel on September 18, 1974, 2 years after the well was drilled. Notes in the USGS file (siteid 451630123592500, station name 3S/3W-36aaa) indicate that the well was located on the south side of the Crown Zellerbach log dump road at the base of a terrace and that the pump was on a platform about 10 feet above ground level. A visit by OWRD staff on September 28, 2005 found the well about 50 feet south of the road with the pump on a 10-foot high platform. A gps location places the well about 350 feet east of the USGS location in section 31 of T. 3S, R. 2W. Presumably this is the same well that was visited by the USGS.

According to information in file G-6331, the River well was damaged by flooding in 1996 and subsequently abandoned by the city. No abandonment log is on file at the Water Resources Department. An application for Extension of Time (received October 18, 1977 indicates that Well 2 on the permit was under construction and corresponds to an alluvial well designated as OWRD Logid YAMH 2672. Presumably this corresponds to Well 4 (River Well) on the permit since the water right application and information from the USGS indicate that permit Well 2 was drilled in 1972.

City well 4 was taken out of service because of problems caused by sand entering the well during pumping.

Attachment "A" Continued

City of Dundee, Oregon
Existing Water Rights and Permits
Ground Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs. (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Well 1	G6331	G6017	NA	YAMH 4541 Well 1 (meter)	CRB 104' Municipal	4/22/1974	0.22 (99)	53	Current pumping capacity is lower than the permitted rate
Well 2	G6331	G6017	NA	YAMH 4551 Well 3 (meter)	CRB 200' Municipal	4/22/1974	0.22 (99)	54	Current pumping capacity is lower than the permitted rate
Well 3 Deep Well	G1217	G1263	29157	YAMH 4549 " 4538 Supply Well (meter)	CRB 471' Municipal	11/28/1958	0.18 (81)	35	Production capacity appears to be declining over time
Well 4 River Well	G6331	G6017	NA	YAMH 2660 Well 2 (meter)	Altuv. 115' Municipal	4/22/1974	0.26 (116)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Old River Well	G6331	G6017	61759	YAMH 2672 (903) Well 4 (abandoned)	Altuv. 313 Municipal	4/22/1974	0.27 (121)	0	Well has been abandoned
Well 7	G11866	G11058	NA	YAMH 4550 Well 7 (meter)	CRB 215' Municipal	10/31/1988	0.33 (148)	80	Current pumping capacity is lower than the permitted rate
Well 8	G12568	G12685	NA	YAMH 1656 Well 7A (meter)	CRB 304' Municipal	6/7/1991	0.334 (150)	130	
Well 9 1st Street	G12568	G12685	NA	YAMH 1659/52883 1st Street Well	CRB 385' Municipal	6/7/1991	0.334 (150)	145	
Well 10 Alder Street	G12568	G12685	NA	YAMH 1658 Alder Street Well (meter)	CRB 482' Municipal	6/7/1991	1.114 (500)	50	Production capacity appears to be declining over time
Well 11	G14066	G12736	NA	Proposed Well 11	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Well 12	G14070	G13035	NA	Proposed Well 12 (Watershed)	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use

RECEIVED

DEC 27 2004

WATER RESOURCES DEPT
 SALEM, OREGON

OREGON WATER RESOURCES DEPARTMENT
GROUND WATER REVIEW: MUNICIPAL PERMIT EXTENSION OF TIME

Date: March 6, 2006

To: Water Rights Section

From: Karl C. Wozniak, Staff Hydrogeologist

Extension Review for File # G- 6331 / Permit # G- 6017

The undeveloped portion of this permit has been evaluated under the Department's 690-09 rules and Was ☒ / was not ☐ found to have the Potential for Substantial Interference with surface water. The evaluation was conducted pursuant to OAR 690-315. Forward files found to have the potential for substantial interference to Oregon Department of Fish and Wildlife.

Undeveloped Portion of Permit in CFS: _____

Estimate of impact and location of evaluation (River mile or PLS)

Stream depletion occurs over a stream reach. Depletion can be variable due to the presence or absence of confining layers within the aquifer. The majority of the impact will extend over a reach twice the distance between the well and the stream.

Stream: Willamette River

Location Mile 52

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360
.505	.513	.516	.518	.519	.520	.521	.521	.522	.522	.523	.523

Interference in CFS

Stream: _____

Location _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Stream: _____

Location _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Municipal/Quasi-Municipal Extension of Time Review

TO: Water Rights Section Date March 6, 2006

FROM: Ground Water/Hydrology Section Karl C. Wozniak
Reviewer's Name

SUBJECT: File G- 6331 Supersedes review of _____
Date of Review(s)

Criteria for Department Review of Extension Applications for Municipal and Quasi-Municipal Water Use Permits (Ground Water)

OAR 690-315-0080 (2)(c): For ground water permits submitted to ODFW under this rule (permits determined to have the potential for substantial interference), the Department shall provide to ODFW and the applicant the Department's estimate of surface water impacts that would result from the use of the undeveloped portion of the ground water permit. This review is based upon available information and agency policies in place at the time of evaluation.

A. GENERAL INFORMATION: Applicant's Name: City of Dundee County: Yamhill

Applicant(s) seek(s) 0.73 cfs from 4 well(s) in the Willamette Basin,
_____ subbasin Quad Map: _____

Proposed use: _____ Seasonality: _____

Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	YAMH 4561	#1 (1)*	CRB	0.10**	3S/3W-27 NW/NE	N 41d 22m 22s W 2066.8' fr E1/4 cor S 27
2	YAMH 2660	#2 (4 River Well)*	Alluvium	0.26**	3S/24-30 SW/SW	N 71d 0m 39s E 4377.26' fr SW cor DLC 61
3	YAMH 4551	#3 (2)*	CRB	0.10**	3S/3W-27 NW/NE	N 41d 45m 13s W 2126.22' fr E1/4 cor S 27
4	YAMH 2672	#4 (River well old)*	Alluvium	0.27**	3S/34-36 NE/NE	N 78d 42m 54s E 3816.42' fr SW cor DLC 61

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	430	1.67	-25.41	7/18/71	104	0-29	0-63			180	83	P
2	86	36	29	10/30/72	115	0-29	0-115		62-66, 98-103	110	26	P
3	430	16	0	3/8/73	200	0-40	0-40			100		A
4	75		35	7/27/78	313	0-27	-4-301		173-195 237-286	500	153	P

Use data from application for proposed wells.

Comments: The wells listed on the permit issued under this application (Permit G-6017) produce ground water from 2 sources. Wells 1 and 3 produce from Columbia River Basalt aquifers, wells 2 and 4 produce from the alluvial aquifer.

*Well numbers as listed on the application are listed first, current city well number are shown in parentheses. All well number designations hereafter are those used on application.

**The proposed rates are for the undeveloped portion of the right. Permit G-6017 lists a maximum rate of 0.97 cfs distributed amongst the 4 wells as follows: 0.22 cfs from #1, 0.26 cfs from #2, 0.22 cfs from #3, 0.27 cfs from #4. The city's application for an extension of time (received December 27, 2004) states that the maximum instantaneous rate of water diverted to date for beneficial use is 0.24 cfs for wells 1 and 3. It was assumed that this rate is distributed equally between the two wells. Since the two wells are allocated a total of 0.44 cfs on the permit, the remaining undeveloped portion of the right for each well would be 0.10 cfs or a total of 0.20 cfs undeveloped for the basalt aquifer source. The extension also states that well 2 is being held as a backup supply well because of low water quality and that well 4 was damaged by flooding in 1996 and subsequently abandoned by the city. Therefore, the undeveloped

File G-6331 _____ continued Date March 6, 2006
portion of the right for these wells is 0.26 cfs for well 2 and 0.27 cfs for well 4 or a total of 0.53 cfs undeveloped for the alluvial aquifer source.

Although the city indicates that well 4 has been abandoned, no abandonment log is on file at Water Resources.

- ☐ Well(s) # _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: _____

GROUND WATER/SURFACE WATER CONSIDERATIONS. OAR 690-09-040**690-09-040 (1): Evaluation of aquifer confinement:**

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Columbia River Basalt	☒	☐
3	Columbia River Basalt	☒	☐
2	Alluvium	☐	☒
4	Alluvium	☐	☒
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: Columbia River Basalt aquifers are generally confined because of the low vertical permeability of the thick lava flow interiors. Well logs for wells 2 and 4 show about 50-60 feet of floodplain sand and gravel at the surface. The floodplain sediments are underlain by older, alluvium which is predominantly clay and silt with a few thin water-bearing sand and gravel beds. The shallow floodplain sediments are likely to be unconfined and the deeper sand and gravel beds are likely to be confined. Wells 2 and 4 are perforated in the confined portion of the aquifer system but both wells are gravel packed across the upper unconfined zone. The gravel packs probably allow a significant portion of the production to come from the unconfined alluvium.

690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Harvey Creek	415	190-620	50	☐	☒	☐	☐	☒
3	1	Harvey Creek	415	190-620	50	☐	☒	☐	☐	☒
2	2	Willamette River	65	60	400	☐	☐	☒	☒	☐
4	2	Willamette River	65	60	225	☐	☐	☒	☒	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: Wells 1 and 3 produce from multiple water-bearing zones within the Columbia River Basalt Group (CRBG). The CRBG consists of a series of lava flows that range up to 1000 feet thick in the vicinity of the wells. Most water in the basalts occurs in confined interflow aquifers at the contacts between lava flows. The thick interiors of the basalt flows generally have very low porosity and permeability and act as confining beds. This physical geometry generally produces a stack of thin aquifers (interflow zones) separated by thick confining beds (lava flow interiors). In the vicinity of the wells, the basalt aquifers are truncated by the stream drainages of Harvey and Hess creeks which are eroded through the upper part of the basalt column. The streams are shown as perennial on USGS 7.5-minute topographic maps and have their headwaters in the area of basalt outcrop. Mapped springs or springs listed on water rights occur within the stream drainages. These facts indicate that ground water discharges from the basalt aquifers to support local stream flow. Also, the heads at wells 1 and 3 are similar to nearby reaches of the Creek. However, since the basalt aquifers are confined, the location at which the stream breaches the water-bearing zones in these wells cannot be determined without a geologic map that shows the stratigraphy of the basalt lavas. Such maps are not available in the area. Assuming a 5% dip to the east for the lava flows, the water-bearing zones in wells 1 and 3 (at elevations below about 350 feet) would not be incised by the creek anywhere within its extent. On this basis, the wells are not hydraulically connected to Harvey Creek within a one mile radius of the wells. However, if dips are significantly less than 5 degrees, the water-bearing zones may be in hydraulic connection with the stream. In the absence of better geologic data, the wells will be assumed to not be hydraulically connected for the purposes of this review.

Wells 2 and 4 produce from alluvial sediments adjacent to the Willamette River. Published water level maps indicate that the water table occurs at shallow depths in the sediments and that ground water flows towards, and discharges into, the Willamette River. Therefore, these wells are hydraulically connected to the river.

Water Availability Basin the well(s) are located within: Willamette R > Columbia R > AB Molalla R (for SW 2 & 3).

690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are

pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < 1/4 mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
2	2	☒	☐	MF 182	1500	☐	3830	☐	95	☒
4	2	☒	☐	MF 182	1500	☐	3830	☐	>30	☒
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

	SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		☐			☐		☐		☐
		☐			☐		☐		☐
		☐			☐		☐		☐
		☐			☐		☐		☐

Comments: Interference was calculated using the Jenkins (1970) model (see attached plot). All production from the wells was assumed to be from the unconfined alluvium. Interference estimates were calculated for well 4 only as it is closest to the river. Interference from well 2 will be slightly less since it is farther from the river. Since some of the production comes from the confined portion of the alluvial aquifer, actual interference at any given time will be somewhat less than estimated. However, at steady state, all of the production from the wells will be offset by an equivalent loss of streamflow in the river.

690-09-040 (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
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Extension Review Remarks / Conditions:

Attach estimates of surface water impacts to this review

References Used: Conlon, T.D., and others, 2005. Ground-Water Hydrology of the Willamette Basin, Oregon. USGS Scientific Investigations Report 2005-5168.

Gannett, M.W. and Caldwell, R.R., 1998, *Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington*: U.S. Geological Survey Professional Paper 1424-A.

Jenkins, C.T., 1970. Computation of rate and volume of stream depletion by wells: U.S. Geol. Survey Techniques of Water-Resources Investigations of the United States Geological Survey, Chapter D1, Book 4, 17 p.

Water Availability Tables

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 3/ 2/2006 for
WILLAMETTE R > COLUMBIA R - AB MOLALLA RWatershed ID #: 182 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:46 Date: 03/02/2006

Month	Natural Stream Flow	Consumptiv Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Require- ments	Net Water Available
1	21400.00	1978.00	19400.00	0.00	1500.00	17900.00
2	23200.00	7165.00	16000.00	0.00	1500.00	14500.00
3	22400.00	6950.00	15500.00	0.00	1500.00	14000.00
4	19900.00	6604.00	13300.00	0.00	1500.00	11800.00
5	16600.00	3932.00	12700.00	0.00	1500.00	11200.00
6	8740.00	1673.00	7070.00	0.00	1500.00	5570.00
7	4980.00	1501.00	3480.00	0.00	1500.00	1980.00
8	3830.00	1343.00	2490.00	0.00	1500.00	987.00
9	3890.00	1094.00	2800.00	0.00	1500.00	1300.00
10	4850.00	454.00	4400.00	0.00	1500.00	2900.00
11	10200.00	581.00	9620.00	0.00	1500.00	8120.00
12	19300.00	652.00	18600.00	0.00	1500.00	17100.00
Stor-50%	15200000	2029000	13200000	0	1090000	12100000

DETAILED REPORT OF INSTREAM REQUIREMENTS

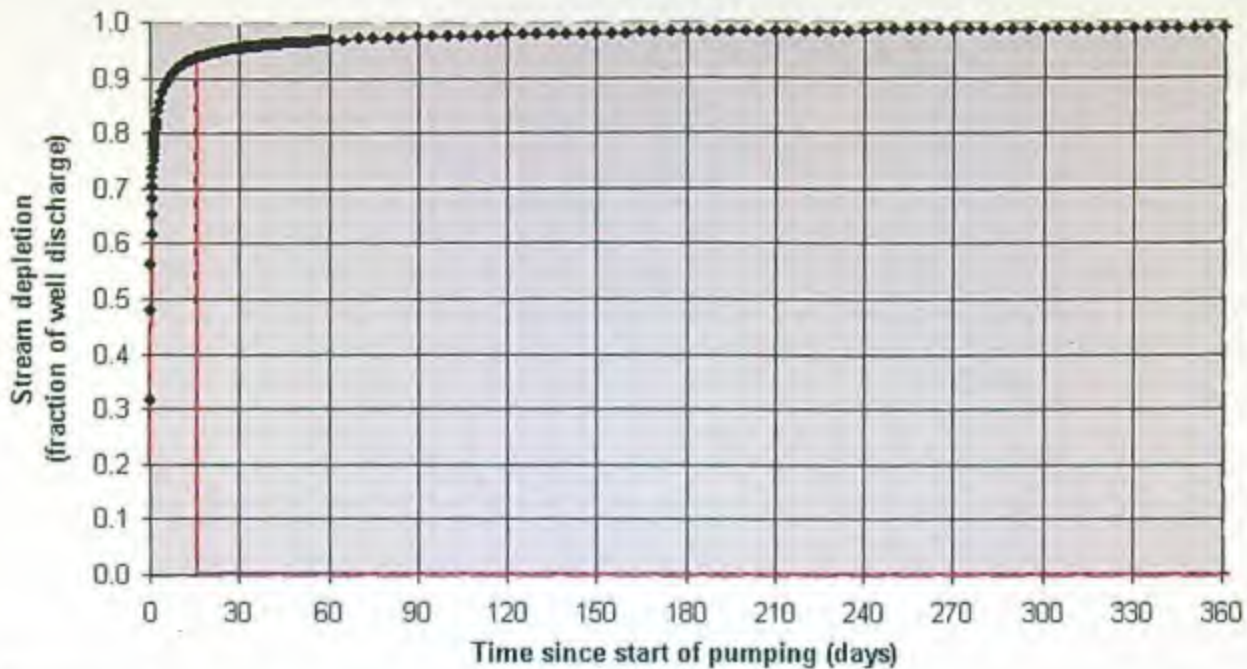
Water Availability as of 3/ 2/2006 for
WILLAMETTE R > COLUMBIA R - AB MOLALLA RWatershed ID #: 182 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:46 Date: 03/02/2006

-ISWRs-									
APP #	MF	182	0	0	0	0	0	0	MAXIMUM
Status	Cert.								
1	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
2	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
3	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
4	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
5	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
6	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
7	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
8	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
9	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
10	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
11	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
12	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00

Stream Depletion Estimates

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-6331, Well 4



—•— Jenkins s2 Hunt s1 — Hunt s2
 —•— Jenkins s2 residual - - - - - Hunt s3 — Hunt s2 resid

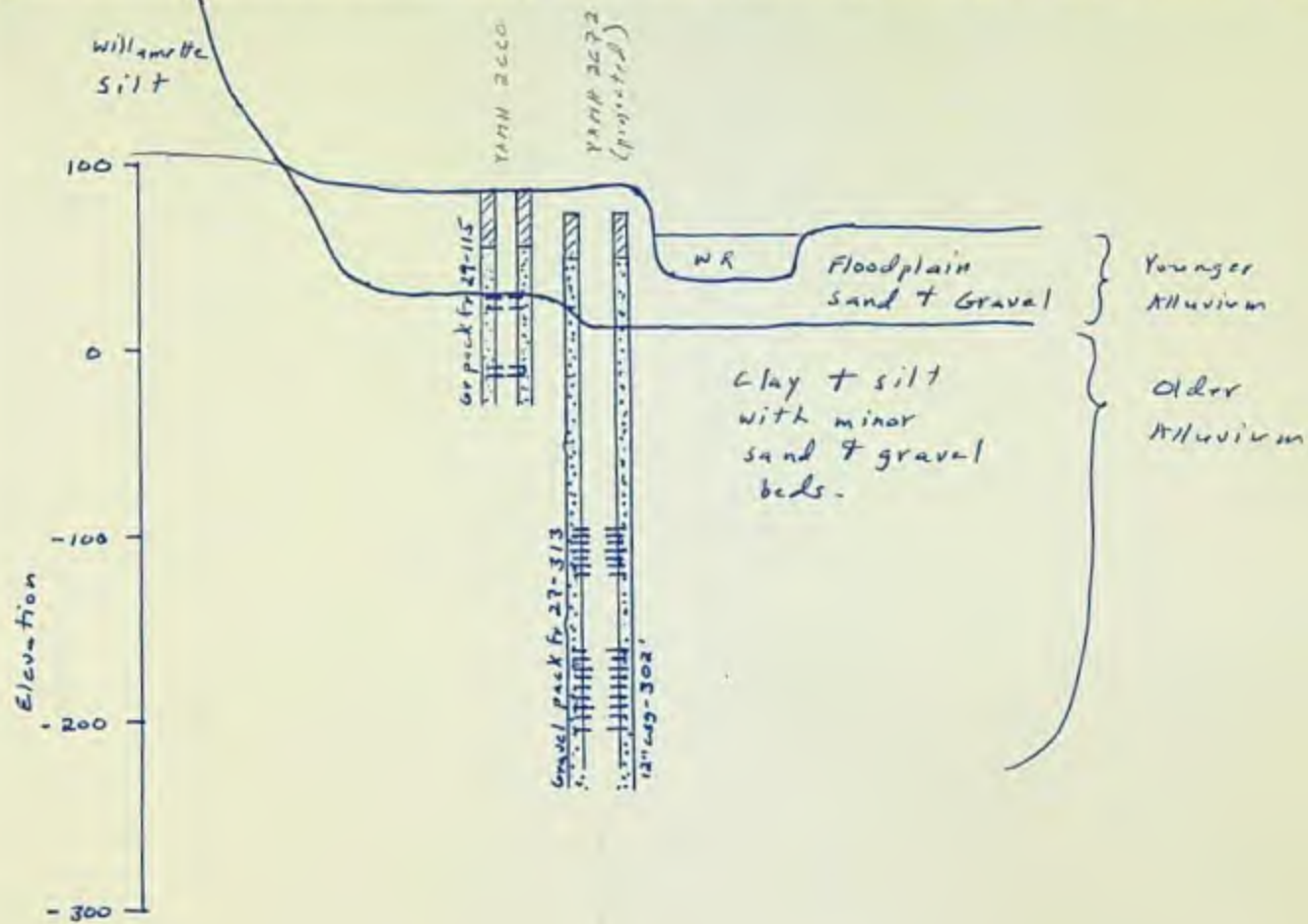
Output for Hunt Stream Depletion, Scenerio 2 (s2): Time pump on = 365 days

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Qw, cfs	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530
H SD s2, cfs	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Jkns SD s2	0.954	0.967	0.973	0.977	0.979	0.981	0.982	0.984	0.985	0.985	0.986	0.987
Jkns s2 cfs	0.505	0.513	0.516	0.518	0.519	0.520	0.521	0.521	0.522	0.522	0.523	0.523

Parameters:

		Scenario 1	Scenario 2	Scenario 3	Units
Net steady pumping rate	Qw	0.53	0.53	0.53	cfs
Distance to stream	a	225	225	225	ft
Aquifer hydraulic conductivity	K	1000	1000	1000	ft/day
Aquifer thickness	b	50	50	50	ft
Aquifer transmissivity	T	50000	50000	50000	ft*ft/day
Aquifer storage coefficient	S	0.2	0.2	0.2	
Stream width	ws	400	400	400	ft
Streambed hydraulic conductivity	Ks	10	10	10	ft/day
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc	1333.333333	1333.333333	1333.333333	ft/day
Stream depletion factor (Jenkins)	sdf	0.2025	0.2025	0.2025	days
Streambed factor (Hunt)	sbf	6	6	6	

Application G-6331 City of Dundee Municipal Extension Review



The original and first copy
of this report are to be
filed with the

NOV 27 1972

STATE ENGINEER, SALEM, OREGON
within 30 days from the date
of well completion.

7E ENGINEER

(Please type or print)
 EER
 (Do not write above this line)

State Well No.

35/3 W-30

State Permit No.

State Permit No. Well # 2 on Permit G-6017
City Well 4 - River Well

(10) LOCATION OF WELL:

Name City of Dundee
Address Dundee, Oregon

County	<u>Yamhill</u>	Driller's well number			
$\frac{1}{4}$	$\frac{1}{4}$ Section	<u>30</u>	T. <u>3S</u>	R. <u>3W</u>	W.M.
Bearing and distance from section or subdivision corner					

(11) **WATER LEVEL:** Completed well.

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

Depth at which water was first found 36 ft.
 Static level (53) 29 ft. below land surface. Date 10/30/72
 Artesian pressure _____ lbs. per square inch. Date _____

(4) PROPOSED USE (check):

Rotary	☒	Driven	☐	Domestic	☐	Industrial	☐	Municipal	☒
Cable	☒	Jettied	☐						
Dug	☐	Bored	☐	Irrigation	☐	Test Well	☐	Other	☐

Threaded ☐ Welded ☒

12" Diam. from 0 ft. to 115 ft. Gage # 250
" Diam. from ft. to (-29) ft. Gage
" Diam. from ft. to ft. Gage

Perforated? ☒ Yes ☐ No.

Type of perforator used		Millknife	
Size of perforations	$\frac{1}{8}$ in. by	3 in.	
56	perforations from	62 $\frac{24}{100}$	ft. to 66 $\frac{20}{100}$ ft.
64	perforations from	98 $\frac{12}{100}$	ft. to 103 $\frac{12}{100}$ ft.
	perforations from		ft. to

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? driller

Yield: 110 gal./min. with 26 ft. drawdown after 24 hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

Work started October 10 1972 Completed October 30 1972
Date well drilling machine moved off of well October 31 1972

Well seal—Material used Cement grout
Well sealed from land surface to 29 (57) ft.
Diameter of well bore to bottom of seal 25 in.
Diameter of well bore below seal 25 in.
Number of sacks of cement used in well seal 5 yds. sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons _____
of water _____ lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 3/4

Gravel placed from 29 ft. to 115 ft.

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] John L. Miller Date Nov 27, 1972
(Typing Machine Operator)

Drilling Machine Operator's License No. 26

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name John Truman Miller
(Person, firm or corporation)

Address P.O. Box 341 Hubbard, Oregon 97032

[Signed] John D. Miller
(Water Well Contractor)

Contractor's License No. 277 Date November 27, 1972

City of Dundee

Material	From	To
Clay, brown silty	0	27
Gravel, small pea size + coarse sand	27	35
Gravel, pea + coarse sand up to 3"	35	53
Gravel, pea size up to 2"	53	60
Clay, green w/ gravel	60	63
Clay, gray	63	77
Clay, gray & brown mixed	77	84
Clay, gray	84	88
Clay, gray & brown mixed	88	114
Clay, gray & powdery white	114	115
Clay, green & brown mixed	115	117
Clay, gray	117	119
Clay, gray & brown mixed	119	135
Clay, gray soft & gritty	135	136
Clay, gray	136	137
Clay, black	137	139
Clay, gray	139	156
Clay, gray & brown mixed	156	167
Clay, gray	167	188
Clay, gray & brown mixed somewhat gritty	188	196
Clay, brown silty somewhat silty	196	201
Clay, gray soft sticky	201	206
Clay, gray & brown mixed	206	217
Clay, blue & brown mixed soft, silty & somewhat gritty	217	220
Clay, black	220	226
Clay, gray	226	240
Clay, brown gritty	240	253
Clay, gray	253	266
Clay, brown silty w/ some fine sand	266	268
Gravel, fine & sand, fine, brown	268	271
Clay, brown soft	271	284
Clay, brown silty soft - somewhat gritty	284	288
Clay, brown	288	313

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AUG 8 1978
WATER RESOURCES DEPT.
SALEM, OREGON

City of Dundee Well Tests

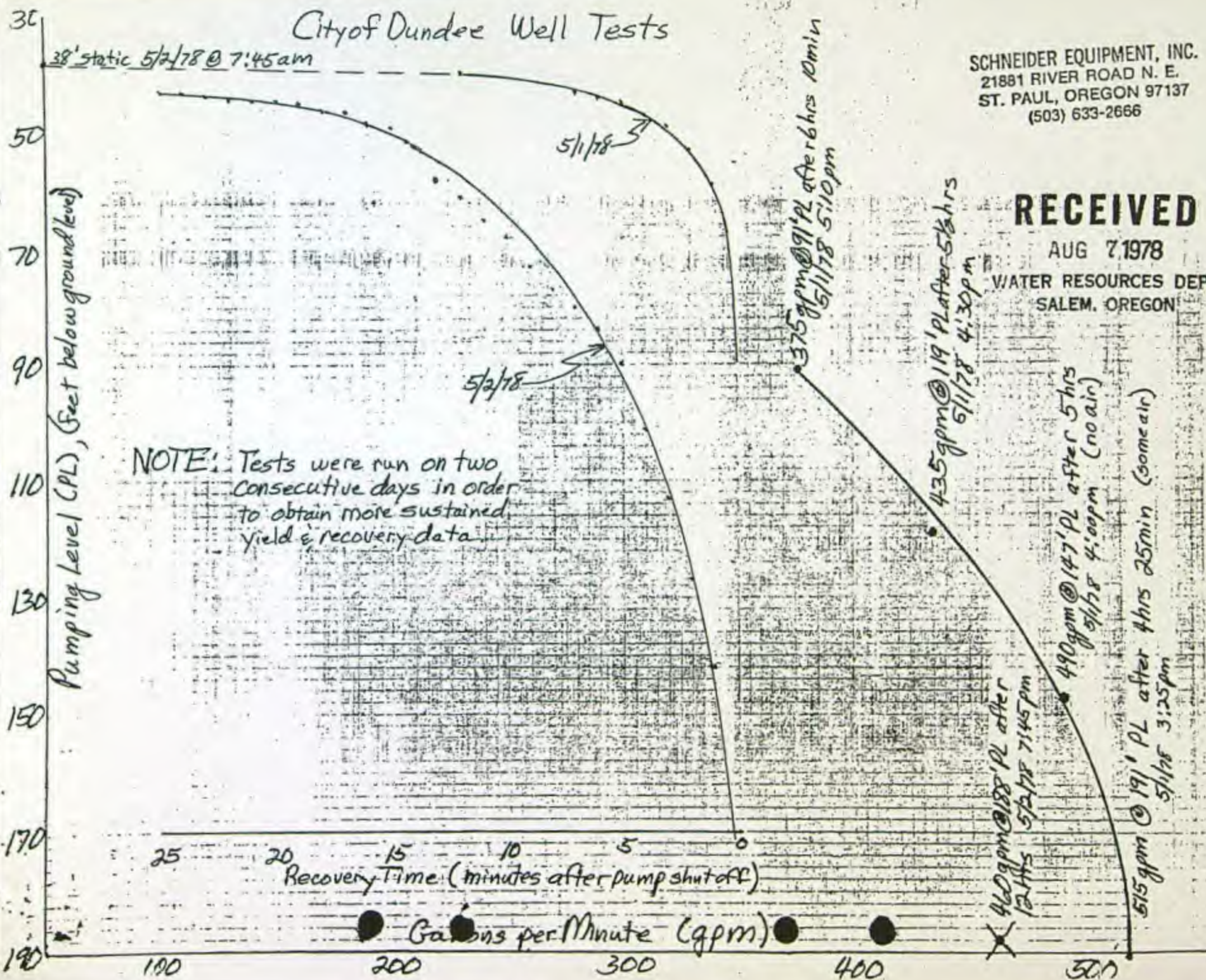
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SCHNEIDER EQUIPMENT, INC.
21881 RIVER ROAD N. E.
ST. PAUL, OREGON 97137
(503) 633-2666

RECEIVED

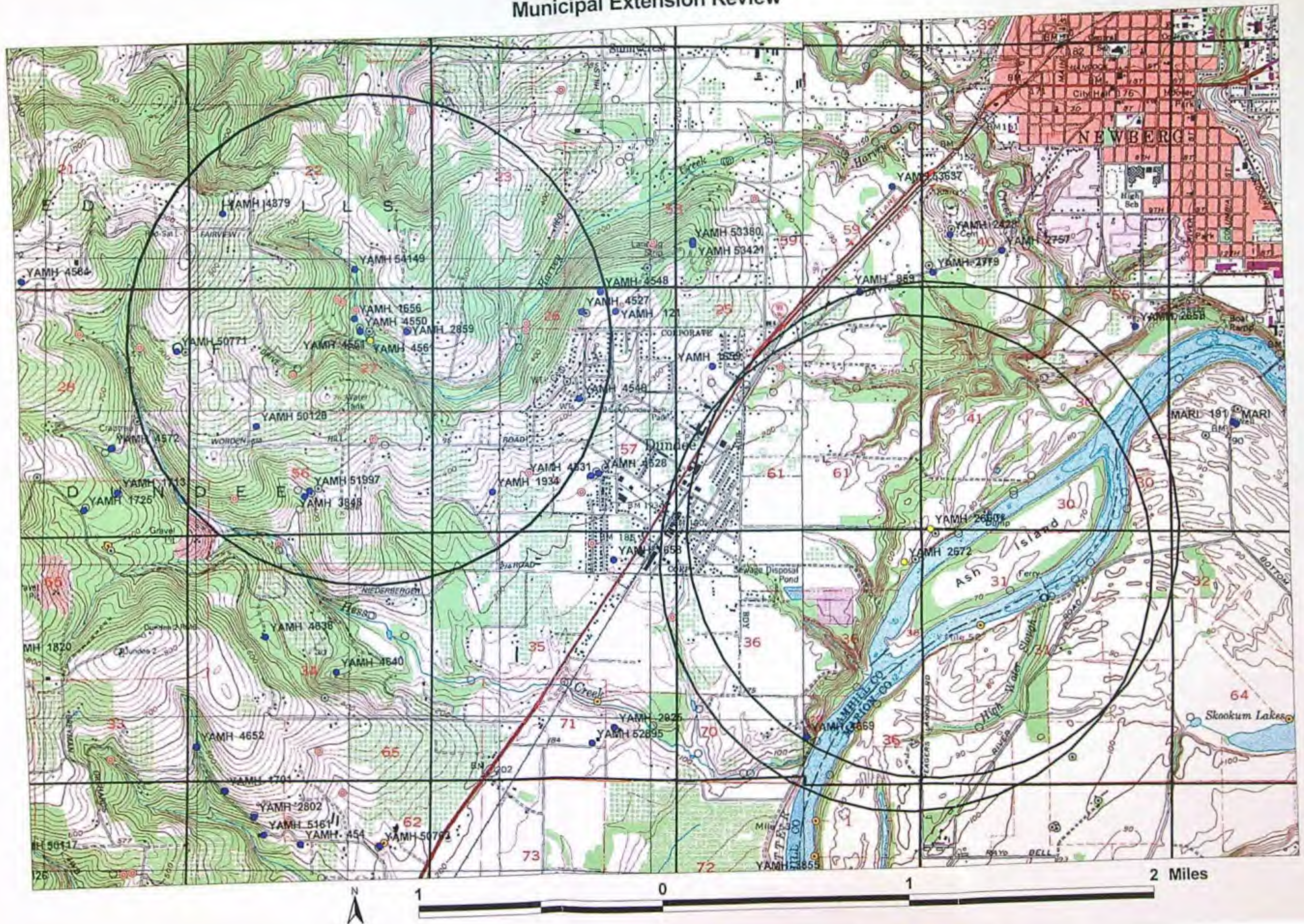
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WATER RESOURCES DEPT.
SALEM, OREGON



City of Dundee
Application G-6331
Municipal Extension Review

- Wells.shp
- Sections
- Water Right PODS
- Stream
- ⊙ Well
- ⊙ Sump
- ⊙ Spring
- ⊙ Reservoir
- ⊙ Other



**Oregon Water Resources Department
Water Rights Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time)
for Permit G-6017, Water Right Application G-6331,)
in the name of the City of Dundee) **PROPOSED FINAL ORDER**

Permit Information

Application File G-6331 / Permit G-6017

Basin 2 – Willamette Basin / Watermaster District 16

Date of Priority: April 22, 1974

Authorized Use of Water

Source of Water: Wells 1, 2, 3, and 4 within the Chehalem Creek Basin
Purpose or Use: Municipal
Maximum Rate: 0.97 Cubic Foot per Second (cfs), being 0.22 cfs from Well 1, 0.26 cfs
from Well 2, 0.22 cfs from Well 3 and 0.27 cfs from Well 4

**This Extension of Time request is being processed in accordance with Oregon
Administrative Rule Chapter 690, Division 315.**

***Please read this Proposed Final Order in its entirety as it contains additional
conditions not included in the original permit.***

This Proposed Final Order applies only to Permit G-6017, water right Application G-6331. A copy of Permit G-6017 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to complete construction of the water system from October 1, 1997 to October 1, 2025.
- Grant an extension of time to apply water to full beneficial use from October 1, 1997 to October 1, 2025.
- Make the extension of time subject to certain conditions as set forth below.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources

City – City of Dundee

ODFW – Oregon Department of Fish and Wildlife

PFO – Proposed Final Order

UGB – Urban Growth Boundary

WMCP – Water Management and Conservation Plan

Units of Measure

cfs – cubic feet per second

gpm – gallons per minute

GPCD - gallons per capita per day

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(2) provides in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, shall order and allow an extension of time, for the completion of the well or other means of developing and securing the ground water or for complete application of water to beneficial use. In determining the extension, the department shall give due weight to the considerations described under ORS 539.010 (5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0080 provides in pertinent part that the Department shall make findings to determine if an extension of time for municipal and/or quasi-municipal water use permit holders may be approved to complete construction and/or apply water to full beneficial use. Under specific circumstances, the Department may condition extensions of time for municipal water use permit holders to provide that use of the undeveloped portion of the permit maintains the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

OAR 690-315-0090(3) authorizes the Department, under specific circumstances, to condition an extension of time for municipal and/or quasi-municipal water use permit holders to provide that diversion of water beyond the maximum rate diverted under the permit or previous extension(s) shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

FINDINGS OF FACT

Background

1. Permit G-6017 was granted by the Department on November 3, 1975. The permit authorizes the use of up to 0.97 cfs, being 0.22 from (Springs) Well 1, 0.26 from Well 2 (also called River Well 4), 0.22 from Well 3 (also called Springs Well 2) and 0.27 from Well 4 (also called Old River Well), all within the Chehalem Creek Basin, for municipal use. It specified that construction of the water development project was to be completed by October 1, 1977, and that complete application of water was to be made on or before October 1, 1978.
2. Four prior permit extensions have been granted for Permit G-6017. The most recent extension request resulted in the completion dates for construction and full application of water being extended to October 1, 1997.
3. The permit holder, the City of Dundee (City), submitted an "Application for Extension of Time" to the Department on March 20, 1998, requesting the time to complete construction of the water system and to apply water to full beneficial use under the terms of Permit G-6017 be extended from October 1, 1997 to October 1, 2002.
4. Due to an ongoing permit extension rulemaking, the Department placed all pending Applications for Extension of Time for municipal and quasi-municipal permits on hold and did not require municipal and quasi-municipal water use permit holders to submit Applications for Extension of Time until the new rules were adopted.
5. Municipal and quasi-municipal water use permit extension rules OAR 690-315-0070 through 690-315-0100 became effective on November 1, 2002, were amended, filed with the Secretary of State, and became effective on November 22, 2005.
6. The permit holder, the City, submitted a new "Application for Extension of Time" to the Department on December 27, 2004, consistent with the Division 315 rules, requesting the time to complete construction of the water system and to apply water to full beneficial use under the terms of Permit G-6017 be extended from October 1, 1997 to October 1, 2025.
7. Notification of the City's Application for Extension of Time for Permit G-6017 was published in the Department's Public Notice dated March 15, 2005. No public comments were received regarding the extension application.
8. On July 13, 2006, the City submitted additional information to supplement their Application for Extension of Time.

Review Criteria for Municipal Quasi-Municipal Water Use Permits [OAR 690-315-0080(1)]

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0080. This determination shall consider the applicable requirements of ORS 537.230¹, 537.248², 537.630³ and/or 539.010(5)⁴

Complete Extension of Time Application [OAR 690-315-0080(1)(a)]

9. On March 20, 1998, the Department received a completed Application for Extension of Time and the fee specified in ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0080(1)(b)]

10. Permit G-6017 was issued prior to June 29, 2005; therefore, the applicant is not required to provide evidence of actions taken to begin actual construction of the project.⁵

Duration of Extension [OAR 690-315-0080(1)(c) and (1)(d)]

Under OAR 690-315-0080(1)(c), (d), in order to approve an extension of time for municipal and quasi-municipal water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

11. The remaining work to be accomplished under Permit G-6017 consists of exploratory well drilling to evaluate ground water aquifer limitations relative to future demands under G-6017, well rehabilitation, construction of a pump station, piping improvements, and complete construction of the system and complete application of water to beneficial use.
12. As of December 27, 2004, the permit holder has appropriated 0.24 cfs of water of the 0.97 cfs authorized under Permit G-6017, being 0.12 from Well 1 and 0.12 cfs from Well 3, for municipal purposes. There is an undeveloped portion of 0.73 cfs of water under Permit G-6017 as per OAR 690-315-0010(6)(g), being 0.10 cfs from Springs Well 1 (YAHM 4561), 0.26 cfs from Well 2 (YAHM 2660), 0.10 cfs from Well 3 (YAHM 4551) and 0.27 cfs from Well 4 (YAHM 2672).
13. In addition to the 0.97 cfs of water authorized under Permit G-6017, the City holds the following rights:
- Permit G-12685 for 1.78 cfs of water from three wells (Springs Well 8, First Street Well 9, and Alder Street Well 10), within the Chehalem Creek Basin;
 - Permit G-11058 for 0.33 cfs of water from a Springs Well 7, within the Harvey Creek Basin;
 - Permit G-12736 for 0.5 cfs of water from Well 11, within the Harvey Creek Basin;
 - Permit G-13035 for 0.5 cfs of water from Well 12, within the Harvey Creek Basin;
 - Certificate 29157 for 0.18 cfs of water from Supply Well (also called Well 3/ Deep

¹ ORS 537.230 applies to surface water permits only.

² ORS 537.248 applies to reservoir permits only.

³ ORS 537.630 applies to ground water permits only.

⁴ ORS 537.010(5) applies to surface water and ground water permits.

⁵ Section 5, Chapter 410, Oregon Laws 2005 and OAR 690-315-0070(1)(d).

Well), within the Chehalem Creek Basin;

- Certificate 61759 for 0.6 cfs of water, being 0.3 cfs from Pruitt Well 5 and 0.3 cfs from Pruitt Well 6, both within the Willamette River Basin;
- Certificate 8781 for 0.5 cfs of water from two springs within the Chehalem Creek Basin;
- Certificate 8817 for 0.05 cfs of water from two springs within the Chehalem Creek Basin;
- Certificate 14654 for 0.007 cfs of water from a spring within the Chehalem Creek Basin;
- Certificate 17145 for 0.25 cfs from Harvey Creek, a tributary of the Willamette River; and
- Permit S-44462 for 4.0 cfs of water from the Willamette River, a tributary of the Columbia River.

The City's water right permits and certificates total 9.67 cfs of water, being 4.81 cfs of (live flow) surface water, and 4.86 cfs from ground water. The city has not yet made use 6.66 cfs of water, being 0.93 cfs of water under Permit G-12685, 0.73 cfs under Permit G-6017, 0.50 cfs under Permit 12736, 0.50 cfs under Permit 13035, and 4.0 cfs from the Willamette River under Permit S-44462.

14. To meet its present demand for water the City is currently utilizing a total of 1.99 cfs of ground water, being 0.12 cfs from Springs Well 1 (YAHM 4561), and 0.12 cfs from Well 3 (YAHM 4551), both under Permit G-6017; 0.08 cfs from Supply Well under Certificate 29157; 0.30 cfs from Pruitt Well 5, and 0.30 cfs from Pruitt Well 6, both under Permit G-10148; 0.33 from Springs Well 7 under Permit G-11058; 0.31 cfs from Springs Well 8, 0.32 under First Street Well 9, and 0.11 from Alder Street Well 10, all under Permit G-12568. The current pumping capacities of Springs Well 1, Well 3 and Springs Well 7 are lower than the permitted rates. The production capacities of Supply Well and Alder Street Well 10 have been declining over time. For approximately nine years following well construction, Alder Street Well 10 produced approximately 100 gallons per minute (gpm), however, its discharge is currently throttled such that the well currently produces approximately 50 gpm. Wells 2 (YAHM 2660), 11 and 12 are not currently connected to the City's water supply and are not being utilized at this time; however, the City plans to develop Wells 11 and 12 to meet future increases in water demands and Well 2 is being held as a backup water source due to lower water quality. According to the City, Old River Well 4 (YAHM 2672) has been abandoned, although there does not appear to be an abandonment well log filed with the Department.
15. The surface water from the City's springs and Harvey Creek are held as emergency water supply sources. Because the City's ground water sources have been recently showing indications of production decline, the City's surface water right from the Willamette River (Permit S-44462) will be used to meet the City's primary water supply, or maintained as a back up source for future increases in water demand depending on the outcome of the City's ground water aquifer study.

16. Based on a growth rate of 4 percent per year, the City of Dundee projects their population of 2,882 in the year 2003 will grow to 5,750 by the year 2020, and reach Urban Growth Boundary saturation development in 2023 with a population of 6,350. As growth continues, the city expects both residential infill and zoning expansions, resulting in increase in population density and overall water demand. (2003 Water System Master Plan, Pages 3-2 to 3-5).
17. According to the City's 1993 Water System Evaluation and Master Plan, the City expects commercial development to occur as the residential population expands and increases the demand for such activities (Page 2-8). Additionally, according to the same Master Plan, the City's projected growth of water system users, between the years 1990 and 2012, includes an average 10 percent per year increase in acres used for industrial development and an average 8 percent per year increase in acres used for commercial development (Table 2-4, Page 2-8).
18. According to the 2003 Water System Master Plan (Page 3-1), the City water system currently provides service to the area within the Urban Growth Boundary (UGB) as well as to several connections outside of this boundary. The services outside the UGB have historically accounted for approximately 6 percent of the water demand, and are anticipated to continue being served at this same level by the City in the future. Furthermore, the agricultural area with the UGB is expected to be rezoned as residential prior to the saturation development of the UGB, with a population density of five people per net available acre.
19. Historical maximum daily per capita usage has been as low as 260 gallons per capita per day (GPCD) and as high as 360 GPCD. The City expects its maximum daily per capita usage to ultimately be maintained at approximately 320 GPCD, even in drought years, by implementing conservation measures.
20. According to the 2003 Water System Master Plan (Table 3-7, Page 3-6), the City's projected peak hour demand is 4.72 cfs at the point of UGB saturation development, which is projected to occur in 2023.
21. Based on a projected growth of 4 percent per year, and the industrial and commercial development projections of the city, full development of the remaining portion of Permit G-6017 could occur by the year 2025.
22. Given the amount of remaining work to be accomplished under Permit G-6017, the City's projected annual growth rate and associated projected demands for water, expansion of its service area, implementation of conservation measures, the uncertainty of the stability of the ground water aquifer and therefore considering the reliability of the other water rights held by the City, the permit holder's request to have until October 1, 2025, to complete construction of the water system and to complete the application of water to beneficial use under the terms of Permit G-6017 is both reasonable and necessary.

Good Cause [OAR 690-315-0080(1)(e) and (3)(a-g)and (4)]

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0080(3) and OAR 690-315-0080(4).

Reasonable Diligence and Good Faith of the Appropriator [OAR 690-315-0080(3)(a),(3)(c) and (4)]

Reasonable diligence and good faith of the appropriator must be demonstrated during the permit period or prior extension period as a part of evaluating good cause in determining whether or not to grant an extension. In determining the reasonable diligence and good faith of a municipal or quasi-municipal water use permit holder, the Department shall consider activities associated with the development of the right including, but not limited to, the items set forth under OAR 690-315-0080(4) and shall evaluate how well the applicant met the conditions of the permit or conditions of a prior extension period.

23. Prior to the issuance of Permit G-6017 on November 3, 1975, the City constructed Springs Well 1 (YAHM 4561), Well 2 (YAHM 2660), and Well 3 (YAHM 4551).
24. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame under Permit G-6017 which included the construction of Well 4 (YAHM 2672).
25. During the last extension period, being October 1, 1992 to October 1, 1997, the City accomplished the following work:
 - A Water System Evaluation and Master Plan was completed in 1993
 - A pump station was constructed,
 - Chlorination facilities were added, and
 - Updates were made to the wells.
26. Since October 1, 1997, the City has completed the 2003 Water System Master Plan.
27. According to the City, as of December 27, 2004, they have approximately invested \$420,000, which is 41 percent of the total projected cost for complete development of this project. The City anticipates an additional \$600,000 investment is needed for the completion of this project.
28. Since the issuance of Permit G-6017 on November 3, 1975, approximately 0.24 cfs of the 0.97 cfs allowed has been appropriated, being 0.12 from Springs Well 1, and 0.12 from Well 3 for beneficial municipal purposes under the terms of this permit.
29. The Department has considered the City's compliance with conditions, and did not identify any concerns.

Financial Investment and Cost to Appropriate and Apply Water to a Beneficial Purpose

[OAR 690-315-0080(3)(b)]

30. According to the City, as of December 27, 2004, they have invested approximately \$420,000, which is 41 percent of the total projected cost for complete development of this project. The City anticipates an additional \$600,000 investment is needed for the completion of this project.

The Market and Present Demands for Water [OAR 690-315-0080(3)(d)]

31. As described in Findings 12 through 21 above, the City relies almost exclusively on its permitted ground water rights to meet all its water requirements, and must rely on full development of all their permitted rights to meet future water demands.
32. The City projects a population increase, on average, of 4.0 percent per year over the next twenty years until they reach Urban Growth Boundary saturation development, and according to their 1993 Water System Evaluation and Master Plan (Page 2-8) the City expects commercial and industrial growth to increase proportionally.
33. Given the current water supply situation of the City, including current and expected demands, the need for system redundancy, and emergency water supply, there is a market and present demand for the water to be supplied under Permit G-6017.
34. OAR 690-315-0090(3) requires the Department to place a condition on this extension of time to provide that diversion of water beyond 0.53 cfs under Permit G-6017 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. A "Development Limitation" condition" is specified under Item 1 of the "Conditions" section of this PFO to meet this requirement.

Fair Return Upon Investment [OAR 690-315-0080(3)(e)]

35. Use and income from the permitted water development project would result in reasonable returns upon the investment made in the project to date.

Other Governmental Requirements [OAR 690-315-0080(3)(f)]

36. Delays caused by any other governmental requirements in the development of this project have not been identified.

Events which Delayed Development under the Permit [OAR 690-315-0080(3)(g)]

37. Delay of development under Permit G-6017 was due, in part, to the size and scope of the municipal water system, which was designed to be phased in over a period of years. Additionally, due to the yield of city wells decreasing over time, complete beneficial use of water under Permit G-6017 is dependent on the results of ongoing groundwater aquifer exploration to determine if future demands can be met by existing or expanded groundwater supplies.

Maintaining the Persistence of Listed Fish Species [OAR 690-315-0080(1)(f) and (2)]

The Department's determination regarding maintaining the persistence of listed fish species shall be based on existing data and advice of the Oregon Department of Fish and Wildlife (ODFW). The determination shall be limited to impacts related to stream flow as a result of use of the undeveloped portion of the permit and further limited to where, as a result of use of the undeveloped portion of the permit, ODFW indicates that stream flow would be a limiting factor for the subject listed fish species.

38. On March 6, 2006, the Water Resources Department determined under OAR Chapter 690 Division 9, that use of water under this ground water Permit G-12685 has the potential for substantial interference with surface water.
39. The pending municipal Application for Extension of Time for Permit G-6017 was delivered to ODFW on March 13, 2006 for ODFW's review under OAR-690-315-0080.
40. Notification that the pending municipal Application for Extension of Time for Permit G-6017 was delivered to ODFW for review was sent to City of Dundee on March 15, 2006.
41. Notification that the pending municipal Application for Extension of Time for Permit G-6017 was delivered to ODFW for review was published in the Department's Public Notice dated March 21, 2006. No public comments were received regarding this notice.
42. Between May 16, 2006 and March 25, 2009, by mutual agreement between the Department, ODFW and the City, the review period was extended due to ODFW's requests for 60 day extension periods and administrative hold request(s) by the City.
43. On March 25, 2009, the Department received ODFW's Division 315 Fish Persistence Evaluation for Permit G-6017.
44. Summary and Excerpts of Advice from ODFW:

Use of water under the portion of this permit that is undeveloped and impacts Willamette River surface water as of the date of the extension final order should be conditioned to maintain persistence of listed fish species. ODFW's advice is based on the best available information and existing data.

The streamflows, in Table 1, below, are ODFW's recommended flows measured at Salem, Oregon, for maintaining the persistence of listed fish species in the Willamette River. ODFW advises the Water Resources Department to develop conditions that allow municipalities to meet their water needs while maintaining the persistence of listed fish species. Such conditions would apply if the USACE is not able to maintain the recommended fish flows.

The severity of the measures to be taken by the permit holder should reflect the degree to which the recommended streamflows are being missed and the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, and be adjusted by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

Table 1

ODFW'S RECOMMENDED MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT SALEM, OREGON	
Month	Cubic Feet per Second
July 1 – October 31	5,630
November 1 – March 31	6,000
April 1 – April 15	15,000 – 19,200
April 16 – April 30	17,000
May 1 – May 31	15,000
June 1 – 15	12,600
June 16 – 30	8,500

Streamflow Measurement Point

After analysis of flow records and how the USACE stores and releases water from its facilities to meet mainstem Willamette flow targets, ODFW has determined that measuring flows at the Salem gage is sufficient for ensuring that flows to maintain the persistence of listed fish are met throughout the mainstem Willamette River. Therefore, ODFW advises the Department to establish the Salem gage as the point for determining whether fish flow are being met for this municipal permit extension.

45. The Department's Findings Based on Review of ODFW's Advice:

The Department is proposing conditions in this extension of time consistent with ODFW's advice (*See* Item 2 of the "Conditions" section of this PFO). When ODFW's recommended flow targets are not met, the Department's proposed conditions will reduce the permit holder's access to the maximum total amount of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted. The conditions are based on the following findings:

- a. As determined by the Department on March 6, 2006, use of the undeveloped portion of this permit, being 0.73 cfs, will result in a calculated 0.53 cfs of stream depletion with Willamette River surface water. Therefore, for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, the Department finds 72.6 percent of the undeveloped portion under this permit impacts Willamette River surface water.
- b. The streamflows needed to maintain the persistence of fish must be measured at Salem, Oregon, USGS GAGE No.14191000, or its equivalent.
- c. During the month of April, the flow target is expressed as a range. Because these flows are the "Recommended Fish flow Minimums" the lesser number in the range (for example, 15,000 cfs in the month of April) is used in developing conditions to maintain

the persistence of fish species.

- d. When flow targets are not met, use of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted must be reduced in proportion to the degree to which the recommended streamflows are being missed.
- e. For the period of April through June, ODFW's advice recognized that the main influence on river flow levels is federal management of the dams and release of surplus storage water to meet listed fish flow needs. The advice also noted that withdrawal of water in the spring months will have minimal overall impact on streamflows. The full use of the undeveloped portion of Permit G-6017 represents less than 0.007% of the April-June streamflows in the Willamette River at Salem.

For the period of July through October, ODFW's advice recognized that the main influence on river flow levels continues to be the federal management of the dams. While the advice noted that withdrawal of water in these summer-fall months will have a proportionally greater effect on flows, it represents an only slightly higher impact compared to the April-June impact; the full use of the undeveloped portion of Permit G-6017 represents 0.009% of the July-October streamflows in the Willamette River at Salem.

In most years, late fall and winter flows are much higher than the recommended flows during this time period.

Therefore, consistent with ODFW's advice that the main influence of river flow levels is the federal management of the dams and that the severity of the measures to be taken by the permit holder should reflect the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, the Department proposes to limit any reduction to no more than 20 percent of the overall maximum total amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted.

- f. ODFW's advice recognizes that municipalities may return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that any reduction to use of the maximum total amount of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted should be adjusted by the monthly estimated percentage of the difference between the total water withdrawals and their return flows. Therefore, consistent with ODFW's advice, when appropriate, the Department proposes to adjust any reduction by a "Consumptive Use Percentage," as generally determined by $(1 - [\text{total municipal wide returned flows} / \text{total municipal wide diverted flows}])$.

46. The Department finds, based on ODFW's advice, that in the absence of conditions, the use of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water will not maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit, and as a result of the use of the undeveloped portion of the permit with surface water impacts, streamflow would be a limiting factor for the listed fish species.

47. Based on ODFW's advice, the Department proposes to require conditions to maintain, in the portions of the waterways affected by water use under Permit G-6017, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. (See Item 2 of the "Conditions" section of this PFO.)⁶
48. On April 2, 2009, the Department notified the City as per OAR 690-315-0080(2)(f) of ODFW's written advice and the "Conditions to Maintain the Persistence of Listed Fish" proposed in this PFO for the pending municipal Application for Extension of Time for Permit G-6017.
49. On July 31, 2009, ODFW notified the Department that the proposed "Persistence of Fish Conditions" for Permit G-6017 are consistent with their advice.

CONCLUSIONS OF LAW

1. The City is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(2).
2. The City has submitted a complete extension application form and the fee specified under ORS 536.050(1)(k), as required by OAR 690-315-0080(1)(a).
3. Pursuant to Section 5, Chapter 410, Oregon Laws 2005, the permit holder is not required to demonstrate that actual construction of the project began within one year of the date of issuance of the permit, as otherwise required by OAR 690-315-0080(1)(b).
4. The time requested to complete construction and apply water to full beneficial use is reasonable, as required by OAR 690-315-0080(1)(c).
5. Completion of construction and full application of water to beneficial use can be completed by October 1, 2025⁷ pursuant to OAR 690-315-0080(1)(d).
6. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and the fair return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the water right permit holder had no control, and the Department has determined that the City has shown good cause for an extension of time to complete construction of the water system and to apply the water to full beneficial use pursuant to OAR 690-315-0080(1)(e).

⁶ The Department, based on advice from the ODFW, has determined that the conditions contained in this PFO are appropriate for this extension. In other municipal extensions that require conditions to maintain the persistence of listed species, different conditions may be warranted depending on the advice received from ODFW and communications with the particular extension applicant.

⁷ For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Department, for issuance of a water right certificate; or (2) continue to appropriate water under the water right permit until the Department conducts a survey and issues a water right certificate under ORS 537.625.

7. As required by OAR 690-315-0090(3) and as described in Finding 34 above and specified under Item 1 of the "Conditions" section of this PFO, the diversion of water beyond 0.53 cfs under Permit G-6017 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.
8. In accordance with OAR 690-315-0080(1)(f), and as described in Findings 38 through 49 above, the persistence of listed fish species will not be maintained in the portions of the waterways affected by water use of the undeveloped portions with surface water impacts under this municipal use permit, in the absence of special conditions. Therefore, the diversion of water beyond 0.53 cfs under Permit G-6017 will be subject to the conditions specified under Item 2 of the "Conditions" section of this PFO.

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

Extend the time to complete construction of the water system under Permit G-6017 from October 1, 1997 to October 1, 2025.

Extend the time to apply the water to beneficial use under Permit G-6017 from October 1, 1997 to October 1, 2025.

Subject to the following conditions:

CONDITIONS

1. Development Limitations

Diversion of any water beyond 0.53 cfs under Permit G-6017 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension of time application. Use of water under Permit G-6017 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 that is on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders.

2. Conditions to Maintain the Persistence of Listed Fish

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Willamette River as recommended by ODFW are in Table 2, below; flows are to be measured on the Willamette River at Salem, Oregon (USGS Gage Number 14191000, or its equivalent).

Table 2

MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT USGS GAGE 14191000 SALEM, OREGON	
Month	Cubic Feet per Second
July 1– October 31	5,630
November 1 – March 31	6,000
April 1 – April 15	15,000
April 16 –April 30	17,000
May 1 – May 31	15,000
June 1 – 15	12,600
June 16 – 30	8,500

B. Determining Water Use Reductions - Generally

The use of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted must be reduced in proportion to the amount by which the flows shown in Table 2 are not met based on a seven day rolling average of mean daily flows measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent). This reduction will be adjusted by a Consumptive Use Percentage, when applicable, as per Item 2.D., below. The overall reduction to the maximum total amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted will not exceed 20%.

C. Percent of the Undeveloped Portion with Impacts on Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, 72.6% of the undeveloped portion under this permit impacts Willamette River surface water.

D. Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages

Utilization of Consumptive Use Percentages for the purpose of calculating the

amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.D.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates

Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.D.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.D.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Willamette River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Willamette River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.D.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of

Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum total amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that begins 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.D.d., or 2.D.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

E. Examples

Example 1:

On July 15, the last seven mean daily flows were 7000, 6500, 6000, 5500, 5250, 5000 and 4750 cfs. The seven day rolling average is 5714 cfs. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 5,630 cfs target flows for July 15.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 5011 cfs, the target flow would be missed by 11%. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would be reduced because the 7 day average of mean daily flows is less than the 5,630 cfs target flow for July 15.

$$(100 - [(5011 / 5630) \times 100\%]) = 11\%$$

- Step 2: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 10.0 cfs and 72.6 % of the undeveloped portion impacts Willamette River surface water, then the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally could be diverted would be 7.3 cfs.

$$(10.0 \text{ cfs} \times [72.6\% / 100]) = 7.3 \text{ cfs}$$

- Note: In Steps 3 – 4, the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally can be diverted will be referred to as the “qualified undeveloped portion.”

- Step 3: Assuming the Consumptive Use Percentage is 78.7%⁸ during the month of July and the utilization of this percentage is authorized, and the target flow is missed by 11% (from Step 1), then the reduction to the qualified undeveloped portion would be 8.7%.

$$([11\% \times 78.7\%] / 100) = 8.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, the qualified undeveloped portion would be reduced only by the % by which the target flow is missed – 11% in this example).

- Step 4: In this example, the reduction to the qualified undeveloped portion due to the missed target flow percentage adjusted by the Consumptive Use Percentage would be 0.63 cfs.

$$(7.3 \text{ cfs} \times [8.7\% / 100]) = 0.63 \text{ cfs}$$

- Step 5: This 0.63 cfs reduction is 8.6% of 7.3 cfs (the maximum total amount of the undeveloped portion of the permit with surface water impacts and can legally be diverted as calculated in Step 2). This 8.6% does not exceed the 20% maximum overall reduction.

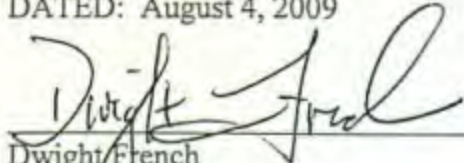
$$([0.63 / 7.3] \times 100\%) = 8.6\%$$

- Step 6: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 9.37 cfs

$$(10.0 \text{ cfs} - .63 \text{ cfs}) = 9.37 \text{ cfs}$$

⁸ Currently, the City of Dundee may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition. The utilization of the Consumptive Use Percentage 78.7%⁸ is only for illustrative purposes in this example.

DATED: August 4, 2009


Dwight French
Administrator
Water Rights and Adjudications Division

*If you have any questions, please
check the information box on the
last page for the appropriate
names and phone numbers.*

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **September 18, 2009** being 45 days from the date of publication of the proposed final order in the Department's weekly notice.
2. A written protest shall include:
 - a. The name, address and telephone number of the petitioner;
 - b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
 - c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;
 - d. A detailed description of how the proposed final order is in error or deficient and how to correct the alleged error or deficiency;
 - e. Any citation of legal authority supporting the petitioner, if known;
 - f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
 - g. The protest fee required under ORS 536.050, if petitioner is other than the water right permit holder.
3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
 - a. Issue a final order on the extension request; or
 - b. Schedule a contested case hearing if a protest has been submitted, and:
 - 1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
 - 2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

-
- If you have any questions about statements contained in this document, please contact Ann Reece at 503-986-0827.
 - If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Patricia McCarty at 503-986-0820.
 - If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
 - Address any correspondence to: Water Rights and Adjudications Division
725 Summer St NE, Suite A
 - Fax: 503-986-0901 Salem, OR 97301-1266
-

Mailing List for Extension PFO Copies

PFO Date: August 4, 2009

Application G-6331

Permit G-6017

Original mailed to Applicant:

City of Dundee
Attn: Ray Daykin, City Administrator
PO Box 220
Dundee, OR 97115

Copies Mailed
By: <u>MS</u> (SUPPORT STAFF)
on: <u>8/4/09</u> (DATE)

Copies sent to:

1. WRD - App. File G- 6331/ Permit G-6017
2. WRD - Watermaster District 16 – Mike McCord
3. Justin D. Gericke, Jordan Schrader Ramis PC, PO Box 230669, Portland, OR 97281
4. Chris Uber, P.E., Murray, Smith & Associates, 121 SW Salmon, Suite 900, Portland, OR 97204

Fee paid as specified under ORS 536.050 to receive copy:

5. None

Receiving via e-mail (10 AM Tuesday of signature date)

6. WRD – Bill Fujii – Notify of WMCP needed
Done by alr Date 8-5-09
7. PFO: WRD – Watermaster District 16 – Mike McCord, Salem
Done by alr Date 8-5-09

CASEWORKER: ALR

Municipal or Quasi-Municipal

Extension PFO Checklist for Water Use Permits

issued on or prior to November 2, 1998

(OAR 690-315-0010 through OAR 690-315-0060)

Duplicate Fees
\$250 refund
due at PFO
stage
Done

Application: G- 6331 Permit: G- 6017 Permit Amendment? No ☒ Yes ☐ T- _____

Permit Holder's Name: City of Dundee

Permit Holder's Mailing Address: PO Box 220, Dundee, OR 97115

Phone Number: _____

POD Location: Township 3S Range 2W & 3W Section 30, 27 & 36 $\frac{1}{4}$ SWSW, NWNE, NENE

Drainage Basin: 2 County: Yamhill Watermaster District: 16 Watermaster: Mike McCord

Date Permit was issued: 11/3/1975

Priority Date: 4/22/1974

Date of PN: 3/15/2005

Source: Four Wells, Tributaries of an Unnamed Creek and Willamette River

Use: ☒ Municipal ☐ Quasi Municipal _____

"Q": 0.97 cfs, being 0.22 cfs from Well 1, 0.26 cfs from Well 2, 0.22 cfs from Well 3 and 0.27 cfs from Well 4

Orig "A" Date: 11/3/1976

Orig "B" Date: 10/1/1977

Orig "C" Date: 10/1/1978

Extension
request rec'd: 3/20/1998
UPDATED 12-27-04

Last Authorized
"B" Date: 10/1/1997

Last Authorized
"C" Date: 10/1/1997

Request Number (1, 2, 3...): 5

Proposed
"B" Date: 10/1/2025

Proposed
C Date: 10/1/2025

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
☒	☐	Install Meter
☐	☐	
☐	☐	
☐	☐	
☐	☐	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- ☒ ☐ Work was accomplished within the time allowed in the permit or previous extension
- ☒ ☐ Water right permit holder conformed with the permit or previous extension conditions
- ☒ ☐ Beneficial use made of the water during the permit or previous extension time limits
- Permit holder has beneficially used 0.24 ☐ cfs ☐ gpm ☐ af Undeveloped portion 0.73 ☒ cfs ☐ gpm ☐ af
- ☒ ☐ Financial investments were made toward developing the beneficial water use.
- Amount Invested to date: \$420,000 Estimated Remaining Cost: \$600,000

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes ☒ No ☐

Population 2882 (Year) 2003 ☐ Growth 4.05% ☐ Population 6,350 by (Year) 2023 Calculated? Yes ☐

Peak Demand 2.14 ^{hour} :fs (Year) 2003 ☐ Peak Demand 4.72 ^{hour} fs by (Year) 2023 Calculated? Yes ☐ Table 2-5

Application: G- 6331 Permit: G- 6017 Township _____ Range _____ Section _____

For MUNICIPAL permits ONLY.

Yes No

- ☒ ☐ Is this a Municipal use Permit (If YES, proceed. If NO, skip to "Good Cause")
☐ ☒ Has full "Q" been beneficially used? (If YES, skip to "Good Cause")
☒ ☐ Is this the first extension issued since 6/29/05? (If NO, skip to "Good Cause")
☒ ☐ If GW permit, does it have PSI? (If NO, skip to "Good Cause")
☐ ☒ Does the permit holder have any existing fish protection agreements with a state or federal agency?

Date sent to ODFW for review _____

Date returned from ODFW _____

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. ☐ Approval of Extension Request

No ... "Good Cause" cannot be found. ☐ Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes ☒ No ☐

(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

☒ Max "Q" Development Limitations and Div. 86 Water Management and Conservation Plan

☐ Other: _____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

☒ COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987

"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."

☐ COBU Requirement - Surface Water - post July 9, 1987

"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

☐ COBU Requirement - Ground Water - post July 9, 1987

"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

Send fish conditions to Lisa
Brown at WaterWatch

↑
Done

cc Justin D. Gericke
Jordan Schrader Ramis
PO Box 230699
Portland, OR 97281

Extension "PFO" Dates

Mailing / Issuance Date: _____ Protest Deadline Date: _____

Reviewer's Name: _____ Date: _____

Application # G-6331 / Permit # G-6017

Permit Holder: City of Dundee; Attn: Eve Foote, City Administrator
 Drainage Basin: #2 - Willamette Basin Watermaster Name and #16 - Bill Ferber

✓ EXTENSION APPLICATION COMPLETE - READY FOR PFO

Place a (✓) in the box if the item is satisfied	Division 315 - Municipal/Quasi-Municipal Extension of Time - Completeness Checklist OAR 690-315-0070(3)
REFUND DUE	1. [OAR 690-315-0070(3)] The appropriate extension of time fee (as specified in ORS 536.050). \$100 - applications received by September 30, 2003 \$250 - applications received on or after October 1, 2003 Duplicate Fees? YES..... paid \$100 on 3-20-98 and another \$250 on 12-27-04.
✓	* [OAR 690-315-0070(3)(a)] The name and mailing address of the water right permit holder(s);
✓	* [OAR 690-315-0070(3)(b)] The application number and the permit number for which an extension is requested;
✓	2. [OAR 690-315-0070(3)(c)] For quasi-municipal water use permit holders, evidence of the actions taken to begin actual construction on the project, as defined in 690-315-0020(3)(d), if required under the applicable statute; <u>NOTE:</u> ORS 537.230(1) [1997 edition] only exempts surface water municipal use permits from the "A" Date requirement. If you are reviewing a <u>ground water</u> municipal use permit, they must provide evidence that the "A" Date has been met. "Actual construction" means physical work performed towards completion of the water system, which demonstrates both the present good faith of the water right permit holder and the water right permit holder's intention to complete the project with reasonable diligence; "Actual construction" <u>does not</u> include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. "A" date: 11-3-76 "A" Date Met? YES <i>See well logs attached to extension application</i> "B" date: 10-1-77 <i>Well #1 drilled 1971; Well #2 in 1973; Well #3 in 1960 & Well #4 in 1972</i> "C" date: 10-1-78 <i>Attached 1 incorrect log. → City Well 3 = YAHH 4549/4538.</i>
✓	3. [OAR 690-315-0070(3)(d)] - This is extension request # 5th Evidence of actions taken to develop the right within the original permitted time period OR, during the most recent extension period from 10-1-92 to 10-1-97. <i>Not on this permit, Well #3 on this permit = City Well #2 = YAHH 4551, completed in 1973 K.C. Wozniak</i> OK.... See answer to #7. In 1996, the City upgraded the pump station, chlorination facilities and the wells.
✓	4. [OAR 690-315-0070(3)(e)] Evidence of compliance with conditions contained in the permit <u>and</u> any previous extension(s) or the reason the condition was not satisfied; OK... Meters installed & water use records maintained (See Appendix C to Ext. Appl. for Daily Well Meter Readings)
✓	5. [OAR 690-315-0070(3)(f)] Evidence of the maximum INSTANTANEOUS rate of diversion, if any, made to date; 0.24 cfs max instantaneous rate to date from Wells #1 and #3.
✓	6. [OAR 690-315-0070(3)(g)] An estimate of the population served and a description of the methodology(ies) used to make the estimate; Total population of Dundee = 2,882..... HOWEVER, only 392 are served by this permit. The remaining population is served by other permits held by the City.
✓	7. [OAR 690-315-0070(3)(h)] A description of financial expenditures made toward completion of the water development; OK - listed projects with dates totaling approx. \$420,000

Place a (✓) in the box if the item is satisfied

**Division 315 - Municipal/Quasi-Municipal
Extension of Time - Completeness Checklist
OAR 690-315-0070(3)**

✓	8. [OAR 690-315-0070(3)(i)] An estimate of the cost to complete the water development; OK (together with #11).... approx \$600,000 necessary to complete.
✓	9. [OAR 690-315-0070(3)(j)] A summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements, if any, relating to the project that have significantly delayed completion of construction or perfection of the right; OK - due to well production declines and waiting for growth to create demands for water
✓	10. [OAR 690-315-0070(3)(k)] An estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use. Extension requests for <u>greater than 50 years</u> must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder. Current Peak Water Demands -OK. See Section 1 & Table 1 of attached "Water Use & Projected Needs" form Projected Population - OK. See Table 2-4.... shows population projections to 2023 Potential Growth - OK. See Section 3 Inventory of Water Rights Held - OK. See Section 4 and Attachment "A"
✓	11. [OAR 690-315-0070(3)(l)] A summary of the applicant's plan and schedule to complete construction and/or perfect the water right; OK... together with #8 - Provides a list with dates of future projects needed to complete development.
✓	12. [OAR 690-315-0070(3)(m)] Justification for the time requested to complete the project and/or apply the water to full beneficial use;
✓	13. [OAR 690-315-0070(3)(n)] Any other information the applicant determines is relevant to evaluate the application in accordance with applicable statutes and rules;
✓	* [OAR 690-315-0070(3)(o)] Any other information required by the Department that is necessary to evaluate the application in accordance with applicable statutory requirements.
✓	* Signature(s) of the water right permit holder(s).

S:\groups\wr\extensions\Municipal\muni ext completeness checklist\g6331 city of dundee.wpd

Name of Reviewer: _____

Date: _____

1-28-05

Application # G-6331 / Permit # G-6017

Route Slip ... Extension of Time

per Division 315 Rules... (Extensions received on July 1, 2001 or after)

♦ **WRIG...**

Money Received on: \$ 100.00 rec'd on 3/20/98

♦ **Lisa Juul...**

Extension Completeness: return to Jon U.
(If NOT complete, send certified letter requesting add'l information.)

If Extension Appl complete and \$250 fee submitted, route to...

♦ **Jonnine Fuss...**

☒ Publish on Public Notice (initial 30-day comment): 3/15/05 JA

Update "cdatewext.DB" Database:

☒ In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.

☒ In the "Ext Filed" field... Enter the date the Extension Application was received.

At the close of the Initial 30-day Comment Period...

♦ **Lisa Juul...**

Pull files for Ext PFO review: _____

Extension PFO completed: _____

Once Extension PFO signed by Dwight French...

♦ **Jonnine Fuss...**

Prepare Ext PFO for mailing to applicant: _____

Mail to those who commented and paid copy fee: _____

Include Ext PFO on weekly Public Notice: _____

Municipal or Quasi-Municipal EXTENSION REVIEW CHECKLIST for PFO... per Div. 315 Rules

Application #: G - 6331 / Permit #: G - 6017

Permittee's Name: City of Dundee

Permittee's Mailing Address: PO Box 220, 620 SW 5th St., Dundee, OR 97115

POD Location: Township 35 see permit ³⁴ and original application Range 1 Section 1/4 1/4

Drainage Basin: 2 County: Yamhill Watermaster District: #16

1. Has the applicant submitted the appropriate fee? Yes / No
***If "No".....STOP. (Extension of Time cannot be processed if insufficient fees submitted.)
*** (NOTE: Any missing Extension information that is needed before an Extension PFO can be completed???)
2. Has the applicant completely filled out the Extension Application form? Yes / No
***If "No"..... List the shortcomings below and send a letter requesting the additional/missing information that is needed before the Extension of Time can be processed.
3. Date Permit was issued: 11-3-75 Priority Date: 4-22-74
4. Source: Four Wells in the Willamette River Basin
5. Use: Municipal Purposes
6. "Q": 0.97
7. Orig "A" Date: 11-3-76 Orig "B" Date: 10-1-77 Orig "C" Date: 10-1-78
8. Conditions of Permit:

• A B & C Dates

• Permittee shall install a meter

orig. Appl- 3-20-98
updated: 12-27-04

9. Extension request received: 12-27-04 Request Number (...1st 2nd, 3rd): 5th
10. Last Authorized "B" Date: 10-1-97 Last Authorized "C" Date: 10-1-97
11. Proposed "B" Date: 10-1-2025 Proposed C Date: 10-1-2025

___12. Amount Invested to date: _____ Estimated Total Cost: _____
(***Estimated Remaining Cost: _____)

___13. The water project development made to date has been accomplished in accordance with the terms and conditions contained in the permit. Yes / No ***If "No"..... What permit terms and/or conditions have not been met?

___14. Work on the water development project completed to date includes: _____

___15. The work remaining to be completed consists of: _____

___16. Progress in perfecting the permit is being held up by: _____

___17. Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes / No

___18. Determination of the market and the present demand for water or power to be supplied: _____

___19. Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. → Approval of Extension Request

No ... "Good Cause" *cannot* be found. → Denial of Extension Request

___20. Conditions to be included in Extension PFO (if applicable)? Yes / No
(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

- ☐ Max "Q" Development Limitations (Municipal/Quasi-Municipal)
☐ Div. 86 Water Management and Conservation Plan
☐ Other: _____

___21. Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- ☐ **COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- ☐ **COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(3), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use."
- ☐ **COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(3), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use."

NOTES:

Send fish conditions to Lisa
Brown at WaterWatch

Extension "PFO" Dates

Checklist Last Revised: 1 / 31 / 2003

Mailing / Issuance Date: _____ WRD Project Manager: _____

Protest Deadline Date: _____ Date: _____

**Municipal Permit Extensions -
Remaining Undeveloped Portion of Water**

Date: January 10, 2006
To: Application # G-6331 (Permit # G-6017)
From: Lisa Jaramillo, Permit Extension of Time Review ~~SA~~
Subject: Current remaining undeveloped portion of water under municipal use permit

Today, I spoke with the City of Dundee to determine whether or not the quantity of water beneficially used under their municipal use permit has increased from the quantity identified in their pending extension of time application (received on 12-27-2004.)

The permit holder indicated that the quantity of water used for beneficial purposes under this municipal use permit:

- ☐ **HAS INCREASED** from the quantity identified in their pending extension of time application;
(For permits where beneficial water use has increased, the Department has requested the City to submit a written update identifying the "current" quantity of beneficial water use under this permit in order to maintain official documentation from the City in the file record.)

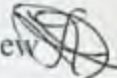
- OR -

☒ **HAS NOT INCREASED** from the quantity identified in their pending extension of time application.

NOTE: The following information is provided to document "quantity" information obtained during my telephone conversation with the permit holder.

Application # G-6331 / Permit # G-6017
Permitted quantity of water: 0.97 cfs
Maximum quantity of water developed: 0.24 cfs
Date information obtained by telephone from the City: 1-10-2006
Remaining undeveloped portion: 0.73 cfs

**Municipal Permit Extensions -
Remaining Undeveloped Portion of Water**

Date: Dec. 27, 2005
To: Doug Woodcock, Ground Water Section Manager
From: Lisa Jaramillo, Permit Extension of Time Review 
Subject: Remaining undeveloped portion of water under municipal use permit

For purposes of determining impacts related to streamflow as a result of use of the undeveloped portion of the permit [OAR 690-315-0080(2)], the following information identifies the remaining undeveloped portion of water under the municipal water use permit described below:

Name of City: City of Dundee
Application # G-6331 / Permit # G-6017

Permitted quantity of water: 0.97 cfs

Maximum quantity of water developed: 0.24 cfs

• Date this information provided by City: 12-27-2004 (EXT)

Remaining undeveloped portion: 0.73 cfs

Ann Reece

G-6331

From: Rick Kepler [rick.j.kepler@state.or.us]**Sent:** Friday, July 31, 2009 2:20 PM**To:** Ann Reece**Cc:** Rick Kepler; Tim S Hardin**Subject:** RE: Consumptive Use Language - Dundee- Final Draft

This looks good Ann, ODFW concurs with the condition language for the Consumptive Use condition section of Dundee's extensions. We previously provided concurrence with the other portions of the Dundee extension conditions in our e-mail to you on 7/24/09.

~~~~~  
 Rick Kepler ~~<\*)~~~~~>< ~~  
 Manager, Water Quality/Quantity  
 Oregon Department of Fish and Wildlife  
 3406 Cherry Ave. NE  
 Salem, OR 97303  
 Tel. 503-947-6084  
 Fax 503-947-6070  
 e-mail: [Rick.J.Kepler@state.or.us](mailto:Rick.J.Kepler@state.or.us)  
 Web: [www.dfw.state.or.us](http://www.dfw.state.or.us)

**From:** Ann Reece [mailto:reeceal@wrd.state.or.us]**Sent:** Thursday, July 30, 2009 4:55 PM**To:** Rick Kepler**Subject:** Consumptive Use Language - Dundee- Final Draft

Rick,

This is the basically the same wording that was used for Portland. The main difference is in blue highlights. If you are ok with this language, the Dundee extensions are ready to be approve by Monday.

Ann

D. Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages

Utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.



First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.D.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates

Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.D.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.D.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Willamette River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Willamette River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.D.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of



calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.D.c., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum total amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that begins 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.D.d., or 2.D.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.



Ann Reece

6-6331

**From:** Rick Kepler [rick.j.kepler@state.or.us]

**Sent:** Friday, July 24, 2009 3:43 PM

**To:** Ann Reece

**Subject:** RE: Fish Persistence Conditions - Dundee

Ann, ODFW concurs with WRD's proposed fish persistence conditions for the City of Dundee's municipal extensions S-58951 and G-6331.

I did talk with Lara this morning I explained ODFW's concern and I better understand the City of Portland's issue Lara is going to suggest some different language to address major changes in the return flow rate.

~~~~~  
Rick Kepler ~<*)~~~~>< ~
Manager, Water Quality/Quantity
Oregon Department of Fish and Wildlife
3406 Cherry Ave. NE
Salem, OR 97303
Tel. 503-947-6084
Fax 503-947-6070
e-mail: Rick.J.Kepler@state.or.us
Web: www.dfw.state.or.us

From: Ann Reece [mailto:reeceal@wrdd.state.or.us]

Sent: Tuesday, July 21, 2009 11:25 AM

To: Rick Kepler

Cc: Tim S Hardin; Dwight French; Scott Kudlemyer; Justin Gericke

Subject: RE: Fish Persistence Conditions - Dundee

Rick,

Does ODFW concur that the Water Resources Department's proposed fish persistence conditions for the City of Dundee's municipal extensions, as revised a second time, are consistent with the fish persistence advice provided earlier by ODFW?

Please see the attached conditions for S-58951 and G-6331. Changes to the Consumptive Use Percentages 1.C. are in yellow highlights. These additional sentences address your recommendation to require updates to Consumptive Use Percentages if they change by 25 percent or more prior to the end of a 10 year period.

Ann Reece

Extensions Specialist

Water Resources Department

725 Summer St NE, Suite A

Salem, OR 97301-1266

503-986-0827 (tele)

7/31/2009

503-986-0901 (fax)

p.s. These changes are consistent with the language I used in the Portland conditions - a combination of your edits and mine.

From: Rick Kepler [mailto:rick.j.kepler@state.or.us]
Sent: Monday, July 13, 2009 4:58 PM
To: Ann Reece; Rick Kepler
Cc: Dwight French; Justin Gericke; Tim S Hardin
Subject: RE: Fish Persistence Conditions - Dundee

Ann, I have read the fish persistence conditions proposed for Dundee's municipal permit extensions and the modification you made as a result of my comments. I believe you have interpreted our advice correctly and ODFW for the most part concurs with the proposed conditions with one recommendation. The 10 year time frame for adjusting consumptive use rates seems reasonable because rates if they change are likely to change slowly over time, however, there is at least a couple instances where the consumptive use rate could change drastically (up to 100%) in a year. This is where the city is required by DEQ to remove their effluent from a stream because of water quality concerns or the municipality puts in a gray water system. This has a double impact less or no water is being returned to the stream and the city continues to take water. Since ODFW views the Dundee conditions as templates for future wording to address return flows in other permits we probably should address this issue. I would recommend some wording that says if the city anticipates or sees more than a 25% change in their consumptive use rate that they need to resubmit their consumptive use rate to WRD before the 10 year period ends. Especially in small stream this will be important since ODFW will be basing their fish persistence review in part on expected return flows that if not there would have an impact on water available to the listed fish species in question.

~~~~~  
 Rick Kepler ~<\*)~~~~> ~  
 Manager, Water Quality/Quantity  
 Oregon Department of Fish and Wildlife  
 3406 Cherry Ave. NE  
 Salem, OR 97303  
 Tel. 503-947-6084  
 Fax 503-947-6070  
 e-mail: [Rick.J.Kepler@state.or.us](mailto:Rick.J.Kepler@state.or.us)  
 Web: [www.dfw.state.or.us](http://www.dfw.state.or.us)

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**From:** Ann Reece [mailto:reeceal@wrdd.state.or.us]  
**Sent:** Tuesday, June 30, 2009 12:55 PM  
**To:** Rick Kepler  
**Cc:** Tim S Hardin; Justin Gericke  
**Subject:** FW: Fish Persistence Conditions - Dundee

Rick - I am pretty sure I sent this to you on June 23. But in case I didn't, I'm sending it now. (Although I have your 'out-of-office' response from June 23, I don't see the e-mail with these attachments that I thought I sent.) Ann

Rick Kepler  
 ODFW



Rick,

Revisions to OWRD's conditions have been made according to your comments below, (see my responses below in red). I have attached the revised proposed fish persistence findings and conditions for the two City of Dundee municipal extensions for your review. (the attachment with 'shows revisions' in the title is shows all revisions in yellow highlights).

Does ODFW concur that the Water Resources Department's revised proposed fish persistence conditions for the City of Dundee municipal extensions are consistent with the fish persistence advice provided earlier by ODFW?

Ann Reece  
Extensions Specialist  
Water Resources Department  
725 Summer St NE, Suite A  
Salem, OR 97301-1266  
503-986-0827 (tele)  
503-986-0901 (fax)

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**From:** Rick Kepler [mailto:rick.j.kepler@state.or.us]  
**Sent:** Thursday, June 11, 2009 10:43 AM  
**To:** Ann Reece; Rick Kepler; Tim S Hardin  
**Cc:** Dwight French; Scott Kudlemyer; Tom Murtagh  
**Subject:** RE: Fish Persistence Conditions - Dundee

Ann, ODFW has the following notes on WRD's interpretation of ODFW's advice on the Dundee municipal extensions at this point this is not a concurrence by ODFW:

More of a heads up statement that we will include when we do concur with the Willamette municipal extensions.

In the first part of April ODFW gave a range of flows between 15,000 and 19,200 cfs mainly because the statistical analysis on the data was indeterminate. We do know that flows below 15,000 cfs reduced steelhead recruitment and flows above 19,200 cfs didn't seem to provide any additional improvement. With the data set ODFW has we could not show that between these two values one flow was more beneficial over another. However, we do know that later in April and May and June that higher flow corresponded with higher recruitment rates. Why I bring this up is that there are different ways of interpreting the data. In the Willamette Basin Biological Assessment NOAA choose an intermediate flow 17,800 cfs rather than the lowest or highest flow in the range. ODFW is fine with setting the minimum flow for fish persistence at 15,000 cfs in early April, because it does not negatively affect recruitment, the BiOp flows will likely keep flows above 15,000 cfs and the city is unlikely to be using the maximum withdrawal rate in April.

This is the first permit with the consumptive use (return flow credit) process so here are a



couple observations:

- Right now the language requires the city to show that "withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly", under this language the city could state that the habitat is not impacted. How would WRD then make the determination that the statement was correct? I would suggest that WRD use language similar to that used in determining whether appropriate screens are installed. ie have the city get written concurrence from ODFW who makes this determination. **DONE - see Finding 2.f**

In retrospect if the POD and effluent discharge point already exist ODFW will make this determination as part of the advice letter (as we did in Portland's and EWEB's cases). ODFW will review Dundee, Corvallis and Adair Village to make this determination. Salem does not currently have a POD so we cannot make this determination at the present time.

- In the case where a POD does not currently exist, is there a need to state that the significant impact will be determined after the POD is completed? **Done - see Condition 1.D.b (first time use of consumptive use percentages)**
- Probably need to include a statement that the consumptive use (return flow credit) will be revisited if the POD or return flow point are relocated. **Done - see Condition 1.D.d**
- For the formula ODFW recommends this language (1- [total municipal wide returned flows/total municipal wide diverted flows]). This makes it clear we are looking for a general % rather than one specific to that particular return flow point and POD. This gets around any issue with multiple POD's or return points **DONE**
- Additionally, the consumptive use % should be calculated by month or at least by season. This is to account for seasonal changes in consumptive use %. **DONE**

Suggested edits

- I note that in S-58951 the groundwater permit is referenced in 2e **FIXED**
- In the examples on 2 instead of saying "further limited" should say "reduced to" - **Example 2 has been modified to avoid use of 'further limited'**
- You might show how you got the 78.7% figure too. - **see footnote #1**

~~~~~  
 Rick Kepler ~~<*)~~~~>< ~~
 Manager, Water Quality/Quantity
 Oregon Department of Fish and Wildlife
 3406 Cherry Ave. NE
 Salem, OR 97303
 Tel. 503-947-6084
 Fax 503-947-6070
 e-mail: Rick.J.Kepler@state.or.us
 Web: www.dfw.state.or.us

From: Ann Reece [<mailto:reeceal@wrd.state.or.us>]
Sent: Thursday, May 28, 2009 10:47 AM
To: Rick Kepler; Tim S Hardin

Cc: Dwight French; Scott Kudlemyer
Subject: Fish Persistence Conditions - Dundee

Rick and Tim,

I have attached OWRD's proposed fish persistence findings and conditions for the two City of Dundee municipal extensions for your review.

Does ODFW concur that the Water Resources Department's proposed fish persistence conditions for the City of Dundee municipal extensions are consistent with the fish persistence advice provided earlier by ODFW?

Ann

Ann Reece
Extensions
Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301-1266
503-986-0827 (tele)
503-986-0901 (fax)

Ann Reece

File G-6331

From: Rick Kepler [rick.j.kepler@state.or.us]
Sent: Thursday, June 11, 2009 10:43 AM
To: Ann Reece; Rick Kepler; Tim S Hardin
Cc: Dwight French; Scott Kudlemyer; Tom Murtagh
Subject: RE: Fish Persistence Conditions - Dundee

Ann, ODFW has the following notes on WRD's interpretation of ODFW's advice on the Dundee municipal extensions at this point this is not a concurrence by ODFW:

More of a heads up statement that we will include when we do concur with the Willamette municipal extensions.

In the first part of April ODFW gave a range of flows between 15,000 and 19,200 cfs mainly because the statistical analysis on the data was indeterminate. We do know that flows below 15,000 cfs reduced steelhead recruitment and flows above 19,200 cfs didn't seem to provide any additional improvement. With the data set ODFW has we could not show that between these two values one flow was more beneficial over another. However, we do know that later in April and May and June that higher flow corresponded with higher recruitment rates. Why I bring this up is that there are different ways of interpreting the data. In the Willamette Basin Biological Assessment NOAA choose an intermediate flow 17,800 cfs rather than the lowest or highest flow in the range. ODFW is fine with setting the minimum flow for fish persistence at 15,000 cfs in early April, because it does not negatively affect recruitment, the BiOp flows will likely keep flows above 15,000 cfs and the city is unlikely to be using the maximum withdrawal rate in April.

This is the first permit with the consumptive use (return flow credit) process so here are a couple observations:

- Right now the language requires the city to show that "withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly", under this language the city could state that the habitat is not impacted. How would WRD then make the determination that the statement was correct? I would suggest that WRD use language similar to that used in determining whether appropriate screens are installed. ie have the city get written concurrence from ODFW who makes this determination.

In retrospect if the POD and effluent discharge point already exist ODFW will make this determination as part of the advice letter (as we did in Portland's and EWEB's cases). ODFW will review Dundee, Corvallis and Adair Village to make this determination. Salem does not currently have a POD so we cannot make this determination at the present time.

- In the case where a POD does not currently exist, is there a need to state that the significant impact will be determined after the POD is completed?
- Probably need to include a statement that the consumptive use (return flow credit) will be revisited if the POD or return flow point are relocated.
- For the formula ODFW recommends this language (1 - [total municipal wide returned flows/total municipal wide diverted flows]). This makes it clear we are looking for a general % rather than one specific to that particular return flow point and POD. This gets around any issue with multiple POD's or return points
- Additionally, the consumptive use % should be calculated by month or at least by season. This is to account for seasonal changes in consumptive use %.

Suggested edits

- I note that in S-58951 the groundwater permit is referenced in 2e

6/16/2009

Draft

Willamette River – Proposed Fish Persistence Conditions for Extension of Time Proposed Final Order (PFO) for Application G-6331 (Permit G-6017) City of Dundee

FINDINGS

1. Summary and Excerpts of Advice from ODFW:

Use of water under the portion of this permit that is undeveloped and impacts Willamette River surface water as of the date of the extension final order should be conditioned to maintain persistence of listed fish species. ODFW's advice is based on the best available information and existing data.

The streamflows, in Table 1, below, are ODFW's recommended flows measured at Salem for maintaining the persistence of listed fish species in the Willamette River. ODFW advises the Water Resources Department to develop conditions that allow municipalities to meet their water needs while maintaining the persistence of listed fish species. Such conditions would apply if the USACE is not able to maintain the recommended fish flows.

The severity of the measures to be taken by the permit holder should reflect the degree to which the recommended streamflows are being missed and the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, and be adjusted by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

Table 1

SUMMARY OF ODFW'S RECOMMENDED MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT SALEM, OREGON	
Month	Cubic Feet per Second
July 1 – October 31	5,630
November 1 – March 31	6,000
April 1 – April 15	15,000 – 19,200
April 16 – April 30	17,000
May 1 – May 31	15,000
June 1 – 15	12,600
June 16 – 30	8,500

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Streamflow Measurement Point

After analysis of flow records and how the USACE stores and releases water from its facilities to meet mainstem Willamette flow targets, ODFW has determined that measuring flows at the Salem gage is sufficient for ensuring that flows to maintain the persistence of listed fish are met throughout the mainstem Willamette River.

Therefore, ODFW advises the Department to establish the Salem gage as the point for determining whether fish flows are being met for this municipal permit extension.

2. Department's Findings Based on Review of ODFW's Advice:

The Department is proposing conditions in this extension of time consistent with ODFW's advice (See Item 2 of the "Conditions" section of this PFO). When ODFW's recommended flow targets are not met, the Department's proposed conditions will reduce the maximum total amount of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted. The conditions are based on the following findings:

- a. As determined by the Department on March 6, 2006, use of the undeveloped portion of this permit, being 0.73 cfs, will result in a calculated 0.53 cfs of stream depletion with Willamette River surface water. Therefore, for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, the Department finds 72.6 percent of the undeveloped portion under this permit impacts Willamette River surface water.
- b. The streamflows needed to maintain the persistence of fish must be measured at USGS GAGE No.14191000, or its equivalent at Salem, Oregon.
- c. During the month of April, the flow target is expressed as a range. Because these flows are the "Recommended Fish Flow Minimums" the lesser number in the range (for example, 15,000 cfs in the month of April) is used in developing conditions to maintain the persistence of fish species.
- d. When flow targets are not met, the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted must be reduced in proportion to the degree to which the recommended streamflows are being missed.
- e. For the period of April through June, ODFW's advice recognized that the main influence on river flow levels is federal management of the dams and release of surplus storage water to meet listed fish flow needs. The advice also noted that withdrawal of water in the spring months will have minimal overall impact on streamflows. The full use of the undeveloped portion of Permit G-6017 represents less than 0.007% of the April-June streamflow in the Willamette River at Salem.

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For the period of July through October, ODFW's advice recognized that the main influence on river flow levels continues to be the federal management of the dams. While the advice noted that withdrawal of water in these summer-fall months will have a proportionally greater effect on flows, it represents an only slightly higher impact compared to the April-June impact; the full use of the undeveloped portion of Permit G-6017 represents 0.009% of the July-October streamflow in the Willamette River at Salem.

In most years, late fall and winter flows are much higher than the recommended flows during this time period.

Therefore, consistent with ODFW's advice that the main influence of river flow levels is the federal management of the dams and that the severity of the measures to be taken by the permit holder should reflect the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, the Department is proposing to limit any reduction to no more than 20% of the overall maximum total amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted.

- f. ODFW recognizes that municipalities may return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that any reduction to the maximum total amount of the undeveloped portion of Permit G-1017 that impacts Willamette River surface water and legally can be diverted should be based on the monthly estimated ratio of the difference between the total water withdrawals and their return flows. Therefore, consistent with ODFW's advice, when appropriate, the Department proposes to limit any reduction by a "Consumptive Use Percentage," as generally determined by $(1 - [\text{returned flows} / \text{diverted flows}])$.

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1. Conditions to Maintain the Persistence of Listed Fish

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Willamette River as recommended by ODFW are in Table 1, below, and flows are to be measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent).

Table 1

MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT USGS GAGE 14191000 SALEM, OREGON	
Month	Cubic Feet per Second
July 1– October 31	5,630
November 1 – March 31	6,000
April 1 – April 15	15,000
April 16 –April 30	17,000
May 1 – May 31	15,000
June 1 – 15	12,600
June 16 – 30	8,500

B. Water Use Reductions

The maximum total amount of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted shall be reduced (1) in proportion to the amount by which the flows shown in Table 2 are not met based on a seven day rolling average of mean daily flows measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent) and (2) by a Consumptive Use Percentage, when applicable, as per Item 1.D., below. The overall reduction in the amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted will not exceed 20%.

C. Reduction Limited by Percentage of the Undeveloped Portion that Impacts Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, 72.6% of the undeveloped portion under this permit impacts Willamette River surface

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water.

D. Reduction Limited by Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not use Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. Use of Consumptive Use Percentages

Use of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of this Final Order for an extension of time.

First time use of Consumptive Use Percentages is contingent upon the City (1) showing that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving concurrence of the proposed Consumptive Use Percentages from the Water Resources Director.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages.

Use of Consumptive Use Percentages is valid only up to 10 years from the date of concurrence by the Water Resources Director as evidenced by the record.

c. Continued Use of Consumptive Use Percentages by Updates

Continuing use of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may be obtained for subsequent intervals of time, not to exceed 10 years each. Continuing use of Consumptive Use Percentages is contingent upon the city submitting updated Consumptive Use Percentages and receiving concurrence of these updated Consumptive Use Percentages by the Water Resources Director.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

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Continued use of Consumptive Use Percentages is valid only up to 10 years from the date of concurrence by the Water Resources Director as evidenced by the record; however, updates may be submitted before the end of a 10 year approval period.

E. Examples

Example 1:

On July 15, the last seven mean daily flows were 7000, 6500, 6000, 5500, 5250, 5000 and 4750 cfs. The seven day rolling average is 5714 cfs. The maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 5,630 cfs target flow for July 15.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 5011 cfs, the target flows would be missed by 11%.

$$(100 - [(5011 / 5630) \times 100\%]) = 11\%$$

Step 2: Assuming use of the Consumptive Use Percentage is 78.7% during the month of July and the use of this percentage is authorized, then the 11% reduction based on missed target flows would be further limited to 8.7%.

$$([11\% \times 78.7\%] / 100) = 8.7\%$$

Step 3: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 10.0 cfs and 72.6 % of the undeveloped portion impacts Willamette River surface water, then the undeveloped portion of the permit with surface water impacts would be 7.3 cfs.

$$(10.0 \text{ cfs} \times [72.6\% / 100]) = 7.3 \text{ cfs}$$

Step 4: In this example, the reduction to the undeveloped portion of the permit with surface water impacts which is due to the missed target flow percentage adjusted by the consumptive use percentage would be 0.63 cfs

$$(7.3 \text{ cfs} \times [8.7\% / 100]) = 0.63 \text{ cfs}$$

Step 5: This 0.63 cfs reduction is only 8.6% of 7.3 cfs (the undeveloped portion with surface water impacts), which does not exceed the 20% overall maximum reduction. (In this example, the 20% maximum overall reduction to the maximum total amount of the undeveloped portion of the permit that legally can be diverted would be 1.46 cfs).

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$$([0.63 / 7.3) \times 100\%]) = \underline{8.6\%}$$

Step 6: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 9.37 cfs

$$(10.0 \text{ cfs} - .63 \text{ cfs}) = 9.37 \text{ cfs}$$

F. Division 86 WMCP Updates under OAR 690-086-0140(3) and OAR 690-086-0170(7)

Updates to any WMCP approved after the date of the Final Order approving this extension of time must include (1) a description of these conditions to maintain the persistence of listed fish within the Municipal Water Supplier element under OAR 690-086-0140(3), and (2) if applicable, a discussion of these conditions to maintain the persistence of listed fish within the Municipal Water Supply element under OAR 690-086-0170(7).



Oregon

Theodore R. Kulungoski, 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

May 6, 2009

City of Dundee
Attention: Rob Daykin, City Administrator
PO Box 220
Dundee, OR 97115

REFERENCE: Pending Application for Extension of Time Water Right Application
S-58951 (Permit S-44462) and Application G-6331 (Permit G-6017).

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification as per OAR 690-315-0080(2)(f) of any fishery resource protection conditions that may be proposed in the proposed final orders under OAR 690-315-0050; the conditions are enclosed for your review.

This letter will also act to provide you notice of your opportunity to request the Department place any of the above referenced municipal permit extension applications on administrative hold.

If you should have any questions concerning your extension request you may contact me at (503) 986-0813.

Sincerely,

A handwritten signature in black ink, appearing to be "S. Kudlemyer", with a long horizontal stroke extending to the right.

Scott Kudlemyer
Water Rights Specialist

Enclosures

cc: Application File S-58951 & G-6331
Mike McCord, Watermaster District # 16
Justin D. Gericke Jordan Schrader Ramis PC PO Box 230669 Portland, OR 97281
Chris Uber, P.E., Murray, Smith and Assoc., 121 SW Salmon, Suite 900, Portland, OR 97204



Oregon

Theodore R. Kulonowski, 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

April 8, 2009

City of Dundee *Rob Daykin*
Attention: ~~Eve Foote~~, City Administrator
PO Box 220
Dundee, OR 97115

REFERENCE: Pending Application for Extension of Time Water Right Application
S-58951 (Permit S-44462) and Application G-6331 (Permit G-6017).

Dear Municipal Water Right Holder:

The purpose of this letter is to provide clarification regarding the previous letter that was sent to the City of Dundee, dated April 2, 2009 regarding ODFW advice. The aforementioned letter erroneously stated that both the ODFW advice and conditions were included in that mailing. Only the ODFW advice was included, conditions have yet to be drafted and will be forthcoming in the near future.

This letter will also act to provide you notice of your opportunity to request the Department place any of the above referenced municipal permit extension applications on administrative hold.

If you have any questions concerning your extension request or this letter please contact me at (503) 986-0813.

Sincerely,

A handwritten signature in black ink, appearing to be "S. Kudlemyer", with a long horizontal flourish extending to the right.

Scott Kudlemyer
Water Rights Specialist

Enclosures

cc: Application File S-58951 & **G-6331**
Mike McCord, Watermaster District # 16
Justin D. Gericke Jordan Schrader Ramis PC PO Box 230669 Portland, OR 97281



Oregon

Theodore R. Kalongaski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
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April 2, 2009

City of Dundee Rob Daykin
Attention: Eve Foote, City Administrator
PO Box 220
Dundee, OR 97115

REFERENCE: Pending Application for Extension of Time Water Right Application
S-58951 (Permit S-44462) and Application G-6331 (Permit G-6017).

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification as per OAR 690-315-0080(2)(f) of Oregon Department of Fish and Wildlife's written advice on the above referenced municipal permit extension applications and any fishery resource protection conditions that may be proposed in the proposed final orders under OAR 690-315-0050; the advice and conditions are enclosed for your review.

This letter will also act to provide you notice of your opportunity to request the Department place any of the above referenced municipal permit extension applications on administrative hold.

If you should have any questions concerning your extension request you may contact me at (503) 986-0813.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Kudlemyer", with a long horizontal flourish extending to the right.

Scott Kudlemyer
Water Rights Specialist

Enclosures

cc: Application File S-~~47453~~
Mike McCord, Watermaster District # 16
Adam Sussman, Groundwater Solutions, 1600 Western Blvd., Suite 240, Corvallis, OR 97333



Oregon

Theodore R. Kulongoski, Governor

Department of Fish and Wildlife

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March 20, 2009

Phil Ward, Director
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301



Re: ODFW's Division 315 Evaluation of Fish Persistence for Municipal Extension
City of Dundee Application # G-6331

Director Ward:

The City of Dundee has requested an extension of time to develop the municipal water right referenced above; the undeveloped portion of their permit is 0.73 cfs, of which 0.53 cfs is connected to the Willamette River. ORS 537.230(2)(c) and 537.630(2)(c) directs the Water Resource Department (WRD) to find that the undeveloped portion of the permit is conditioned to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. WRD is to base their findings on existing data and advice from the Oregon Department of Fish and Wildlife (ODFW). This letter is the advice provided to WRD by ODFW.

Summary

The Water Resource Commission has recognized the need to maintain flows in the Willamette Basin for aquatic life and to minimize pollution through the adoption of Minimum Perennial Streamflows from natural flow, plus additional storage releases, in the Willamette Basin Program. The Willamette Basin Program established a minimum perennial stream flow (MPSF) from natural flow for fish of 1,500 cfs at Wilsonville (OAR 690-502-0050). The MPSF at Salem, the location of USGS Gage #14191000, is 1,300 cfs. Additionally several other flows have been identified as necessary to maintain the persistence of listed fish species.

- An additional amount up to 4,700 cfs from storage was recommended by WRD's Willamette Basin Program to address instream flow needs;
- Higher spring flows were identified by ODFW as necessary to facilitate migration of listed Winter Steelhead through the Willamette River in April, May and June;
- Congressionally authorized minimum flows were set for July – September.

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- DEQ has developed Total Maximum Daily Loads (TMDL's) for a number of constituents within the basin. Loads are based on concentrations that protect the most sensitive species at a 7Q10 base flow. The water temperature standard is of special importance, as it is set to maintain the health of salmonids, which are two of the listed fish species in this basin;
- Finally, a Biological Opinion for the Willamette River Basin Flood Control Project (BiOp) was recently completed by NOAA Fisheries. This BiOp addresses the recovery of Threatened Winter Steelhead and Spring Chinook, and includes flow targets for these listed species from the beginning of April to the end of October.

There are 13 United States Army Corps of Engineers (USACE) storage projects in the basin, which store about 1.6 million acre feet of water. The Willamette Basin Program and the USACE have identified a number of beneficial uses for this stored water, including fish and wildlife needs; however, the Bureau of Reclamation, through the state water right system, originally applied for all the storage water to be designated for irrigation. This designation means that no other water use may apply for a stored water right; therefore, all other uses (including flows for fish and municipal use) must rely on natural flow or releases of uncontracted surplus stored water. Although listed fish species rely on the release of stored water to maintain viability, there is currently no means to acquire a corresponding instream flow water right or contract from stored water. The Willamette BiOp directs the USACE to meet specific flow targets to maintain flows for listed fish while balancing fish flows and water quality needs with other demands for the surplus stored water within the basin.

Evaluation

Listed Species

Fall Chinook – (Federal - Threatened, State Sensitive)
Spring Chinook – (Federal - Threatened)
Coastal Cutthroat – (State Sensitive, below Willamette Falls)
Coho – (Federal - Threatened, State - Endangered)
Pacific Lamprey – (State Sensitive, Federal – petitioned for listing)
Winter Steelhead – (Federal - Threatened, State Sensitive)

Findings and Justification

Fish Flow Analysis: (Water Availability and Fish Flow Needs).

According to WRD's Water Availability Tables, water is still available for all months of the year; the lowest flow months are typically August and September. The live flow (non-storage) portion of the water needed for fish, 1,300 cfs, is included in the water availability calculations. The Willamette Basin Program (OAR 690-502-0500 with Tables) identifies the minimum Perennial Streamflows for the Willamette River Sub-basin. The identified flows were split into two components: a "Minimum Perennial

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Streamflow" value and an additional amount to be supplied through storage releases. These combined flows are needed for fish persistence and are one measure of fish flow needs.

In the past the Corps of Engineers (USACE et al. 1997) augmented flows in the Willamette River through the release of water from its 13 projects to meet annually established operational target flows in the Willamette River at Albany and Salem and the basin's tributaries. These augmented flows address fish flow needs and maintain adequate water quality while balancing recreation, flood control and other needs. Flows were not guaranteed, because most of the water in storage is designated for irrigation use and could be contracted for irrigation use, although at the current time, less than 5% has been contracted for irrigation.

The USACE consulted with NOAA Fisheries, who developed a Biological Opinion (July 2008) for Winter Steelhead and Spring Chinook in the Willamette basin. The Biological Opinion included flow targets for April 1 – October 31. April-June flows were based on the ODFW analysis for steelhead migration (see above); June-September flows are the congressionally authorized flows, established in the 1950's as part of the authorization for the development of the Willamette Basin projects. The flows represent those needed to maintain navigation in the Willamette during the summer and fall and are not specifically set as flows to sustain listed fish populations (October designated flows are an extension of the authorized flows). Table 1 summarizes the monthly flows based on all the above-mentioned references, and includes an overall ODFW minimum flow recommendation for each month.

Spring flows: A study by ODFW identified the need for minimum and target flows in the Willamette and its tributaries to maintain the persistence of Winter Steelhead (Summary of Flow and Temperature Analysis for Willamette River Wild Winter Steelhead, November 24, 2003 Draft, Tom Friesen and Mary Buckman). The report focused on flows needed from April through June for spring migration of Winter Steelhead smolts out of the system (out-migration).

Two flow levels were identified for Winter Steelhead out-migration: a minimum flow (to avoid declining population growth) and a target flow (to provide positive population growth and recruitment). This advice letter, while recognizing the importance of higher target flows, is confined to minimum recommended flows.

The bulk of steelhead out-migration occurs in May with part occurring in April when flows are naturally higher, and ending in June when flows begin to decline. This range of flows is important in maintaining the genetic diversity of the species, because different portions of the population probably key in on different flow ranges. April and May flows should mimic the higher flows that would occur naturally, and June flows should mimic the declining flows; a range of flows allows the system to maintain the natural diversity of the species and its relationship to flows. The April-June flows (Table 1, Column 4) are the ODFW-estimated minimum flows to maintain the persistence of winter steelhead

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populations. The Willamette BiOp suggests slightly higher flows than what ODFW has suggested for this period.

Summer-Fall flows: Flows in the summer and fall (July-October) were established by USACE in consultation with DEQ (and other state and federal agencies) to address water quality concerns and to meet water quality standards (many of the standards are set to protect fish and aquatic life). DEQ has calculated acceptable loads (TMDL's) for maintenance of water quality standards based on a 7Q10 flow (the regulated streamflow at its lowest consecutive seven day level in an average 10 year period). These 7Q10 flows need to be met to maintain water quality at a level that would continue to protect the health of listed salmonids. Therefore, these flows are one measure of the minimum needed July-October to maintain the persistence of listed fish species. The Willamette BiOp has designated the congressionally authorized flows for the USACE projects as the flows needing to be met during this period. These flows would provide adequate protection for the listed species as they are above the TMDL flows.

Late Fall and Winter flows: ODFW is recommending that the instream flows applied for by ODFW be maintained to provide habitat for listed fish rearing in the Willamette and its tributaries. These flows are the combination of the minimum perennial streamflows and the instream storage flows which would both be needed to maintain the appropriate level of habitat. In most years flows are much higher than the recommended flows during this time period.

ODFW is recommending the use of the state's flow recommendations rather than the Willamette Biological Opinion flows. The differences between the state and federal flow recommendations are based on the objectives each law is attempting to implement. In the case of the federal Willamette Basin Biological Opinion the objective is to set flows to allow for the recovery of federally listed fish species. Current litigation on Columbia River management of the hydroelectric system is establishing what kinds of actions are required to achieve "recovery" under the federal ESA. In the state's case, on the other hand, it is instructed through state law to condition the permit "to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law". The standard of maintaining the persistence of the listed fish is a question of state, not federal law. Under this direction the state will be identifying the minimum flows necessary to maintain the persistence of listed fish species. ODFW is required by state law to address situations that put listed fish populations at risk of decline and extirpation. If current flows are putting a listed species at risk, then ODFW is required to restrict further depletions of flow caused by the development of currently undeveloped municipal water rights.

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Fish Persistence Evaluation Application # G-6331
February 23, 2009

Table 1 – Identified fish flow needed at Salem for listed fish species.

Month	Minimum perennial streamflow (cfs)	Instream Storage Flows Not Included in Water Availability (cfs)	ODFW Minimum Recommendation for winter steelhead (cfs)	DEQ TMDL 7Q10 Flow (cfs)	Willamette BiOp Flows (cfs)	ODFW Recommended Minimum Fish Flows (cfs)
Oct	1,300	4,700		5,630	7,000 ² 5,000 ³	5,630
Nov	1,300	4,700				6,000
Dec	1,300	4,700				6,000
Jan	1,300	4,700				6,000
Feb	1,300	4,700				6,000
Mar	1,300	4,700				6,000
Apr 1-15	1,300	4,700	15,000 to 19,200		17,800 15,000 ³	15,000 to 19,200
Apr 16-30	1,300	4,700	17,000		17,800 15,000 ³	17,000
May	1,300	4,700	15,000		15,000 15,000 ³	15,000
Jun 1-15	1,300	4,700	12,600		13,000 11,000 ³	12,600
Jun 16-30	1,300	4,700	8,500		8,700 5,500 ³	8,500
Jul	1,300	4,700		5,630	6,000 ¹ 5,000 ³	5,630
Aug 1-15	1,300	4,700		5,630	6,000 ¹ 5,000 ³	5,630
Aug 16-31	1,300	4,700		5,630	6,500 ¹ 5,000 ³	5,630
Sept	1,300	4,700		5,630	7,000 ¹ 5,000 ³	5,630

Explanation of Table Columns

- Minimum perennial streamflow: amount of flow provided by the Willamette Basin Program (OAR 690-502) from natural flow.

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Fish Persistence Evaluation Application # G-6331
February 23, 2009

- Instream Storage Flows : an additional amount of flow that can be provided from storage to address instream flow needs.
- ODFW Recommendation for Winter Steelhead: Minimum Flows to Avoid Decline in the Population (Friesen and Buckman 2003. DRAFT).
- DEQ's TMDL: 7Q10 Flows at Salem used to establish TMDL loadings to maintain water quality standards.
- Willamette BiOp: NMFS Willamette Project Biological Opinion (July 2008).
- "ODFW Recommended Fish Flow Minimums" ODFW flow recommendations taking all columns into account.
- ¹- Congressionally authorized minimum flow at Salem
- ²-Extension of Congressionally-authorized flow to October
- ³-Dry year flows the USACE will be targeting (not a persistence flow)

Table 2. Monthly flows with the 2008 Biological Opinion and ODFW flows, and percentage of time those flows were not met based on 1970-2007 gage records at Salem

Time	BiOp flow	% Time Not met		ODFW flow	% Time Not met	
		1970-2007	2000-2007		1970-2007	2000-2007
October	7,000	1.8%	9.7%	5,630	0.0%	0.0%
November	6,000	0.0%	0.0%	6,000	0.0%	0.0%
December	6,000	0.0%	0.0%	6,000	0.0%	0.0%
January	6,000	0.6%	0.0%	6,000	0.6%	0.0%
February	6,000	2.1%	0.0%	6,000	2.1%	0.0%
March	6,000	0.0%	0.0%	6,000	0.0%	0.0%
April1-15	17,800	68.9%	16.7%	19,200	87.9%	37.5%
April16-30	17,800	77.8%	30.0%	17,000	67.8%	22.5%
May	15,000	33.7%	15.7%	15,000	33.7%	15.7%
June1-15	13,000	45.8%	35.8%	12,600	42.5%	29.2%
June16-30	8,700	34.6%	42.5%	8,500	33.2%	38.3%
July	6,000	13.8%	12.9%	5,630	2.9%	8.5%
August1-15	6,000	15.6%	21.7%	5,630	2.6%	12.5%
August16-31	6,500	14.8%	34.4%	5,630	0.8%	3.9%
September	7,000	11.8%	30.4%	5,630	0.0%	0.0%

* During this period (2000-2007) the USACE operated the 13 dam complex to provide for fish flows and water quality needs while providing for other beneficial uses.

Analysis of Risk to Fish Persistence (Stock Status and Flow Restoration)

- Winter Steelhead – Species is meeting the stock status criteria in some tributaries and is not meeting them in others. Migration and rearing occurs in mainstream and tributaries up and downstream of the POD. We believe low flows are a constraining factor for this species, especially in the spring.
- Spring Chinook – The stock status criteria for this species are not being met in several of the tributaries upstream and downstream of the POD. Mainstem Willamette is used for rearing and as a migration corridor, where adequate flows are one constraining factor.

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Pacific Lamprey –	Species occurs throughout the basin, the stock status criteria for this species are not being met, populations are declining and there is little information about flow requirement needs.
Fall Chinook –	Some of the stock status criteria are not being met for this species in downstream tributaries (Clackamas River). The species uses the mainstem Willamette for rearing and as a migration corridor, where flow can be a constraining factor.
Coho –	Species occurs in several tributaries downstream of the POD and has met all the stock status criteria in those tributaries. Mainstem Willamette is used as a migration corridor, where flows are not a constraining factor.
Coastal Cutthroat –	Species occurs throughout the basin and meets all the stock status criteria.
Oregon Chub –	Extinct in this area and downstream in the Willamette and its tributaries.
Chum –	Extinct in tributaries downstream of the POD and in the mainstem Willamette.

Flow Restoration Priorities

Based on the Oregon Plan Flow Restoration 2001 priorities developed by ODFW and OWRD, the Willamette River downstream of the POD shows a low need for flow restoration if USACE target flows are maintained.

Existing Fish Protection Agreement

None noted

ODFW's Advice to WRD on Maintaining the Persistence of Listed Fish Species as the City of Dundee Develops the Undeveloped Portions of its Water Right Permit for the Mainstem Willamette River

General Considerations

As directed by ORS 537.230 (2)(c) and ORS 537.630 (2)(c) ODFW provides the following advice to WRD to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. ODFW's advice is based on existing data. ODFW recommends the following flows and advises WRD to develop conditions which allow The City of Dundee to meet its water needs while maintaining the persistence of listed fish species.

- The main influence on river flow levels is the federal management of the dams and release of surplus storage water to meet out-migration flow needs for listed Winter Steelhead. This species has evolved and adapted under flow conditions that vary seasonally and year to year. Winter Steelhead are adapted to the natural flow variation in the system, with flows typically high in April and slowly declining over

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the spring months. ODFW in consultation with the USACE and other state and federal agencies in the past have attempted to mimic this variation through surplus water storage releases in the spring and maintaining minimum flows for water quality in the summer. These flows have been recognized in the Willamette BiOp with recommended flows being generally higher than ODFW recommended flows.

- ODFW recognizes that long term climatic variations will affect the amount of water the USACE will be able to release in any given year. In favorable water years fish populations tend to increase and in unfavorable water years fish populations contract. The long term objective for a listed species is to have the population increase to a sustainable level over time and be able to maintain itself through natural fluctuations in the environment.
- ODFW also recognizes that municipalities return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal point(s) and effluent discharge(s) are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly then ODFW recommends that curtailment of the water right extension be based on the monthly estimated ratio of the difference between the total water withdrawals and their return flows.

Specific Advice by Season of Use

April, May, June

- The Willamette BiOp recommended flows are slightly higher than the state recommendations for moderate and abundant water years. If the USACE meets the Willamette BiOp-prescribed flows then ODFW's recommended flows will also be met during these years. During the low water years the Willamette BiOp-prescribed flows are below those recommended by ODFW to maintain the persistence of listed fish species. In these years municipalities should curtail their use of water as much as is feasible to provide additional flow for fish
- Long term flow measurements at the Salem streamflow gage indicate that during this period the 7 day running averages of flow failed to meet the ODFW recommended fish flows in Table 1 about 34-88% of the time over the 1970-2007 period of record (Table 2). Since 2000 when the USACE has been managing the reservoir system to meet flows for fish and water quality, recommended flows were missed 16-38% of the time. USACE flow modeling for future operating conditions, based on the BiOp target flows, indicates that the recommended flows would be missed less than 5% of the time in "moderate" to "abundant" water years. In low water years (which, over the past 64-year period occurred 25% of the time), the USACE attempts to balance spring and summer flows with storage, recreation, irrigation contracts and other needs, and adjusts flow targets downward. The BiOp flows may be reduced below those flows which ODFW has determined are necessary to maintain the persistence of listed fish species; therefore, in low water years when the USACE is using lower flow

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targets, the municipality should curtail their use to minimize impacts to listed fish species.

- Use of the presently-undeveloped portion of the City of Dundee's groundwater right would represent less than 0.007% of the April-June streamflow in the Willamette at Salem. The City of Dundee water use will typically be appreciably lower than its full right during this time of the year since the largest consumptive uses have not yet begun and the majority of the flow will return to the river at some point through sewerage discharges. Therefore, withdrawal of water in the spring will have minimal overall impact on streamflows.

ODFW Advice: Use of water under the portion of this permit that was undeveloped as of the date of the extension final order should be conditioned to maintain persistence of listed fish species consistent with the ODFW recommended flows in Table 1. If the USACE is not able to maintain the recommended fish flows, the City of Dundee should have the amount of water that can be diverted through this extension be reduced, through conditioning the permit. The severity of the measures taken should reflect the degree to which the recommended flows are being missed, the percentage of water that is withdrawn by the municipality vs. the overall streamflow level and an adjustment to the amount to be curtailed by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

July, August, Sept, October

- The main influence on river flow levels continues to be the federal management of the dams. The USACE will be attempting to balance other water uses with the release of water to meet the Willamette BiOp flows and water quality needs. The main objectives for fish persistence review during this period are to maintain rearing habitat and good water quality for fish health.
- The TMDL 7Q10 flows represent the minimum necessary flow to maintain water quality. The 7Q10 flow level for the Willamette at Salem is currently 5,630cfs, but could be modified in the future based on what flow levels the USACE is able to maintain over time, therefore, the 7Q10 flow levels for the TMDL could change over time based on what flows the USACE is able to consistently maintain. ODFW is recommending that the TMDL flows be met to maintain the listed fish populations during this period.
- The flows recommended in the Willamette BiOp during this period are the congressionally authorized flows which are higher than the TMDL 7Q10 flows. Since the USACE will be attempting to meet the BiOp target flows in most years the TMDL flows should be met. In low water years the Willamette BiOp-prescribed flows are below those recommended by ODFW to maintain the persistence of listed

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fish species. In these years municipalities should curtail their use of water as much as is feasible to provide additional flow for fish.

- During this time period the City of Dundee municipal water right has a slightly higher impact (0.009 %) on the flows recommended by ODFW. The consumptive portion of the City's use is expected to be appreciably higher than in the spring and winter, thus reducing the proportion that the municipality will return to the river with sewerage return flows. Willamette River flows are lower during this time period and therefore water withdrawals have a proportionally greater effect on flows. The recommended flows were missed from 0 to 3 % of the time based on the last 38 years of Salem gaging records (Table 2). USACE flow modeling for future operations, based on the BiOp flow targets, indicates that the recommended flows would be missed less than 5% of the time in "abundant" water years, and from 5-20% of the time in "moderate" water years.

ODFW Advice: Use of water under the portion of this permit that was undeveloped as of the date of the extension final order should be conditioned to maintain persistence of listed fish species consistent with the recommended flows in Table 1. If the USACE is not able to maintain the recommended fish flows, the City of Dundee should have the water that can be diverted through this extension be reduced through conditioning the permit. The severity of the measures taken should reflect the degree to which the recommended flows are being missed, the percentage of water that is withdrawn by the municipality vs. the overall streamflow level and an adjustment to the amount to be curtailed by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

November – March

- Municipal use is typically low during this time of the year due to the discontinuation of the more substantial consumptive uses in the municipal system. Willamette River flows are dependent on storage schedules for filling USACE reservoirs. Typically, flows exceed minimum perennial streamflows and corresponding flows from storage for instream needs. Based on the past 38 years, the recommended flows were missed, during this period, from 0 to 2% of the time.

ODFW Advice: Use of water under the portion of this permit that was undeveloped as of the date of the extension final order should be conditioned to maintain persistence of listed fish species in the Willamette basin consistent with the recommended flows in Table 1. If the USACE is not able to maintain the recommended fish flows, the City of Dundee should have the water that can be diverted through this extension be reduced through conditioning the permit. The severity of the measures taken should reflect the degree to which the recommended flows are being missed, the percentage of water that is withdrawn by the municipality vs. the overall streamflow level and an adjustment to the amount to be curtailed by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

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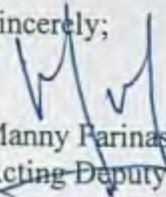
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Fish Persistence Evaluation Application # G-6331
February 23, 2009

This concludes ODFW's advice to WRD on City of Dundee's Municipal Extension Application # G-6331. If you have questions about our advice or need further clarification please contact me at 503-947-6044 or Rick Kepler, the manager of our Water Quality/Quantity Section, at 503-947-6084.

Sincerely;



Manny Farinas
Acting Deputy Director

Bc:

Steve Marx
Steve Mamoyac
Rob Daykin, City of Dundee
Justin Gericke

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SALEM, OREGON

File G-6331



Oregon

Theodore R. Kulongoski, Governor

Department of Fish and Wildlife

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Fax: 503-947-6202
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www.dfw.state.or.us



September 26, 2008

Rob Daykin
City Administrator
City of Dundee
PO Box 220
Dundee, OR 97115

Dear Mr. Daykin:

The Water Resources Department recently notified us of the need for ODFW to contact the City of Dundee directly in order to request additional time to complete the review and evaluation of Municipal Water Right Extension Application S-58951/Permit S-44462. Therefore, this letter replaces the one sent September 18, 2008 to WRD, and copied to you and Justin Gericke.

Would it be acceptable to you if our advice is delivered to WRD by November 3, 2008? Thank you for your attention, and please contact Rick Kepler or me if you have any questions.

Sincerely,

Tim Hardin
Instream Flow Specialist

Cc: Chris Uber
Justin Gericke
Ann Reece
Rick Kepler

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Ann Reece

G-6331

From: Ann Reece
Sent: Thursday, September 25, 2008 11:53 AM
To: 'Rick Kepler'
Cc: FRENCH Dwight W; 'Tim S Hardin'
Subject: Dundee Persistence Review - more time needed by ODFW

Hi Rick,

I have a September 18, 2008 letter from Curt Melcher (ODFW Deputy Director) to Phil Ward (OWRD Director) notifying our agency that ODFW will require an 60 day additional period to complete the persistence review for the Dundee extensions. If my accounting (below) is correct, the review period is past 120 days, and per rule, ODFW needs make their request for more time to the City of Dundee.

The Dundee extensions were sent over to ODFW for persistence review on March 13, 2006. On May 10, 2006, ODFW requested an additional 60 day review period, for a total review period of 120 days. On June 20, 2006, 99 days into the 120 review period, the extension requests on were placed on administrative hold at the City of Dundee's request. On July 24, 2008 the extension requests were taken off of administrative hold at the City of Dundee's request. The 120 day review period expired on August 13, 2008. As allowed under OAR 690-315-0080(2)(d), ODFW may ask the applicant (the City of Dundee) to consent to more time to complete its persistence review.

Ann

9/25/2008



Oregon

Theodore R. Kulongoski, Governor

Department of Fish and Wildlife

Fish Division
3406 Cherry Avenue NE
Salem, OR 97303
(503) 947-6200
Fax (503) 947-6202
TTY (503) 947-6339
www.dfw.state.or.us

September 18, 2008



Phil Ward
Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Dear Mr. ^{Phil} Ward:

With this letter, the Oregon Department of Fish and Wildlife is notifying the Water Resources Department, as allowed under OAR 690-315-0080 (2) (d), that ODFW will require additional time to complete the review and evaluation of Municipal Water Right Extension Application G-6331/Permit S-6017. The additional time will not exceed 60 days or a total of 120 days for review unless the applicant consents to more time.

Sincerely;

Curt Melcher
Deputy Director

Cc: City of Dundee (Ray Daykin, Justin Gericke)

RECEIVED

SEP 22 2008

**WATER RESOURCES DEPT
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

July 28, 2008

Rob
~~Ray~~ Daykin
City Administrator
City of Dundee
PO Box 220
Dundee, OR 97115

Re: Extensions of Time for the City of Dundee:
Water Right Application S-58951 / Permit S-44462
Water Right Application G-6331 / Permit G-6017

Dear Mr. Daykin,

As per the City's July 24, 2008 request, the Department has removed the administrative hold on the City's pending Extension of Time requests for Application S-58951 / Permit S-44462 and Application G-6331 / Permit G-6017. The Department will resume processing the City's extension applications.

Sincerely,

Ann L. Reece
Extensions
Water Rights and Adjudications Division

cc: Application File S-58951
Application File G-6331
Rick Kepler, ODFW
Justin D. Gericke, Jordan Schrader Ramis PC, PO Box 230669, Portland, OR 97281
Chris Uber, P.E., Murray, Smith and Assoc., 121 SW Salmon, Suite 900, Portland, OR 97204

RECEIVED

JUL 24 2008

WATER RESOURCES DEPT.
SALEM, OREGON



JORDAN SCHRADER RAMIS PC

July 23, 2008

Ann Reese
Water Right Extensions
Oregon Water Resources Department
725 Summer St NE Suite A
Salem, OR 97301

Re: **Municipal Permit Extension Applications for
Permit Nos. S-44462 and G-6017**
Black Family Vineyard LLC
Our File No. 50249-37505

Dear Ann:

JUSTIN D. GERICKE

Admitted In:
Oregon

Direct Dial
(503) 598-5586

E-mail
justin.gericke@jordanschrader.com

Our office represents the City of Dundee, Oregon ("City") regarding the above-referenced matters. Please include our office on all future correspondence regarding these files.

This letter is to request that the City's extension applications be removed from administrative hold for further processing by the Oregon Water Resources Department ("OWRD") and the Oregon Department of Fish & Wildlife ("ODFW"). At the conclusion of ODFW's review, the City would like to meet with OWRD and ODFW to review ODFW's findings and any conditions proposed for inclusion in the Proposed Final Order.

Please contact our office with any questions.

Regards,

JORDAN SCHRADER RAMIS PC

A handwritten signature in black ink, appearing to read "Justin D. Gericke".

Justin D. Gericke

cc: City of Dundee
Rick Kepler





Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

July 5, 2006

Eve Dolan
City Administrator
City of Dundee
PO Box 220
Dundee, OR 97115

Reference: City of Dundee - Pending Application for Extension of Time
Water Right Permit G-6017 (Application G-6331)

Dear Ms. Dolan,

As of June 20, 2006, the Application for Extension of Time for Permit G-6017 (Application G-6331) for the City of Dundee has been placed on administrative hold as per the City's e-mail request, and will remain on administrative hold until the Department is notified otherwise. Due to your administrative hold request, the City's Application for Extension of Time will be withdrawn from review by the Oregon Department of Fish and Wildlife.

Sincerely,

Ann L. Reece
Extensions
Water Rights and Adjudications Division

Cc: File: Application G-6017 (Permit g-6331)

Ann Reece

From: Ann Reece [Ann.L.REECE@wrd.state.or.us]
Sent: Tuesday, June 20, 2006 3:52 PM
To: 'Eve Dolan, City Administrator'
Cc: 'Dwight French'
Subject: Administrative Hold Request for G-6331 and S-58951

Eve:

Your two permits (Application numbers G-6331 and S-58951) for the City of Dundee have been placed on administrative hold as per your request, and will remain on administrative hold until you notify us otherwise. Thanks for your quick response!

Ann Reece - Extensions
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503.986.0808

From: Eve Dolan, City Administrator [mailto:dundeeeve@comcast.net]
Sent: Tuesday, June 20, 2006 3:44 PM
To: Ann Reece
Cc: Chris Uber
Subject: Re: Extensions Ann Reece

Hello Ann,

Thank you for advising me that ODF & W would not be completed with Dundee's water permit review for G 6331 and S 58951 by the July 11, 2006 deadline. Please place our permits on administrative hold until further notice.

Thank-you,

Eve Dolan

----- Original Message -----

From: Ann Reece
To: dundeeeve@comcast.net
Sent: Tuesday, June 20, 2006 3:33 PM
Subject: Extensions Ann Reece



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

May 16, 2006

Chris Wheaton
Interim Deputy Director
Department of Fish and Wildlife: Fish Division
3406 Cherry Avenue NE
Salem, OR 97303

Re: Municipal Extension for Files S70056, S55550, S50693, S47453, **G6331**, S58951, S55010, S48146, S28213

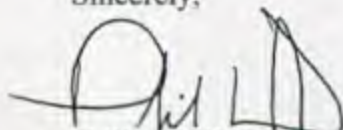
Dear Mr. Wheaton,

Thank you for your May 10, 2006, letter notifying us of your need for an additional 60 days to complete your review of the above listed municipal extensions. These files were referred to you on March 13 of this year. Since these files were originally referred to you on March 13, we expect your completed review no later than July 11, 2006, unless both you and the applicant consent to a later date. Please notify us if a later date is agreed upon for any of these extensions.

We appreciate your willingness to work through these new review requirements. We look forward to working with you and your staff over the coming months.

As always, please feel free to contact me or my staff if we can be of assistance to you.

Sincerely,



Phillip C. Ward
Director



Oregon

Theodore R. Kulongoski, Governor

Department of Fish and Wildlife

Fish Division
3406 Cherry Avenue NE
Salem, OR 97303
(503) 947-6200
Fax (503) 947-6202
TTY (503) 947-6339
www.dfw.state.or.us



May 10, 2006

Phil Ward
Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Re: Municipal Extension **G6331**

Dear Mr. ~~Ward~~, *Phil*

With this letter the Oregon Department of Fish and Wildlife is notifying the Water Resources Department, as described under OAR 690-315-0080 (2) (d), that ODFW will require additional time to complete the review and evaluation of Municipal Water Right Extension G6331. The additional time will not exceed 60 days or a total of 120 days for review, unless the Department needs and the applicant consents to more time for review at some point in the future.

As you know, ODFW has been working diligently with your staff reviewing the necessary information for this evaluation. We are also working together with your staff, the Department of Justice, and the Governor's Office to determine the definition of persistence, how it is applied, and how it is implemented in the context of conditioning Municipal Water Right Extensions.

ODFW has developed our procedures for evaluating Municipal Water Right Extensions. The evaluation is based on water availability as determined by WRD, fish flow needs as recommended by ODFW, the current conservation status of native fish, and whether any interim criteria concerns are related to flow. Our primary concerns are identifying where current information indicates that flows are a limiting factor for a listed species.

Once the draft evaluation is complete, ODFW will share it with the municipality and discuss the findings. We will also work with your staff to explore possible conditions that would allow both the municipality to continue to develop its water right and maintaining the persistence of listed species in the portions of the water way affected by the water right's development. ODFW's advice to WRD will reflect possible conditions to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law.

Sincerely;

Chris Wheaton
Chris Wheaton
Interim Deputy Director

Cc: City of Dundee

RECEIVED

MAY 11 2006

**WATER RESOURCES DEPT
SALEM, OREGON**



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

March 15, 2006

City of Dundee
Attention: Eve Foote, City Administrator
PO BOX 220
Dundee, OR 97115

REFERENCE: Pending Application for Extension of Time
Water Right Application #G-6331 (Permit #G-6017)

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification as per OAR 690-315-0080(2)(b) and (c) that the above referenced municipal permit extension application, *and* the Department's Permit Extension Ground Water Review was delivered to ODFW on March 13, 2006 for review under OAR 690-315-0080. This ground water review includes an estimate of surface water impacts that would result from use of the undeveloped portion of the ground water permit.

Enclosed is your copy of the Department's Permit Extension Ground Water Review.

If you should have any questions concerning your extension request you may contact me at (503) 986-0808.

Sincerely,

Ann L. Reece
Water Rights Specialist

Enclosure: Copy of Permit Extension Ground Water Review

cc: Appl # G 6331 (Permit # G 6017)
Mike McCord, Watermaster District # 16

State of Oregon
Water Resources Department

Interoffice Memorandum

March 1, 2006

To: Water Rights Files G-6331
From: Ground Water Hydrology Section, Karl C. Wozniak
Subject: Status of wells listed as POAs, Permit G-6017

Four wells are specified on the application and the permit. Wells 1, 2, & 3 pre-date the application and are readily identifiable from information listed on the application. Well 4 is not readily identifiable as the city drilled several wells in the vicinity of the proposed point of appropriation. The city uses different numbers and names for these wells than originally designated on the water right application.

Well Name on Permit G-6017	Current City Well Name	OWRD Well Log ID	Hydrogeologic Unit	Total Depth	Date Completed
Well 1	City Well 1	YAMH 4561	Columbia River Basalt	104	07/18/1971
Well 2	City Well 4	YAMH 2660	Alluvial Sediments	115	10/30/1972
Well 3	City Well 2	YAMH 4551	Columbia River Basalt	200	03/08/1973
Well 4	River Well	YAMH 2672	Alluvial Sediments	313	07/27/1978

City wells 1 and 2 are 30 feet apart. Current city maps show city well 1 (104 ft deep) as the westerly well. The application and map in file G-6331 indicate that well 1 is the easterly well.

City well 4 was visited by USGS personnel on September 18, 1974, 2 years after the well was drilled. Notes in the USGS file (siteid 451630123592500, station name 3S/3W-36aaa) indicate that the well was located on the south side of the Crown Zellerbach log dump road at the base of a terrace and that the pump was on a platform about 10 feet above ground level. A visit by OWRD staff on September 28, 2005 found the well about 50 feet south of the road with the pump on a 10-foot high platform. A gps location places the well about 350 feet east of the USGS location in section 31 of T. 3S, R. 2W. Presumably this is the same well that was visited by the USGS.

According to information in file G-6331, the River well was damaged by flooding in 1996 and subsequently abandoned by the city. No abandonment log is on file at the Water Resources Department. An application for Extension of Time (received October 18, 1977 indicates that Well 2 on the permit was under construction and corresponds to an alluvial well designated as OWRD Logid YAMH 2672. Presumably this corresponds to Well 4 (River Well) on the permit since the water right application and information from the USGS indicate that permit Well 2 was drilled in 1972.

City well 4 was taken out of service because of problems caused by sand entering the well during pumping.

Attachment "A" Continued

City of Dundee, Oregon
Existing Water Rights and Permits
Ground Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs. (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Well 1	G6331	G6017	NA	YAMH 4521 Well 1 (meter)	CRB 104' Municipal	4/22/1974	0.22 (99)	53	Current pumping capacity is lower than the permitted rate
Well 2	G6331	G6017	NA	YAMH 4551 Well 3 (meter)	CRB 200' Municipal	4/22/1974	0.22 (99)	54	Current pumping capacity is lower than the permitted rate
Well 3 Deep Well	G1217	G1263	29157	YAMH 4549 " 4538 Supply Well (meter)	CRB 471' Municipal	11/28/1958	0.18 (81)	35	Production capacity appears to be declining over time
Well 4 River Well	G6331	G6017	NA	YAMH 2660 Well 2 (meter)	Aluv. 115' Municipal	4/22/1974	0.26 (116)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Old River Well	G6331	G6017	61759	YAMH 2672 (403) Well 4 (abandoned)	Aluv. 315 Municipal	4/22/1974	0.27 (121)	0	Well has been abandoned
Well 7	G11866	G11058	NA	YAMH 4550 Well 7 (meter)	CRB 215 Municipal	10/31/1988	0.33 (148)	80	Current pumping capacity is lower than the permitted rate
Well 8	G12568	G12685	NA	YAMH 1656 Well 7A (meter)	CRB 304 Municipal	6/7/1991	0.334 (150)	130	
Well 9 1st Street	G12568	G12685	NA	YAMH 1659/52883 1st Street Well	CRB 385 Municipal	6/7/1991	0.334 (150)	145	
Well 10 Alder Street	G12568	G12685	NA	YAMH 1658 Alder Street Well (meter)	CRB 482 Municipal	6/7/1991	1.114 (500)	50	Production capacity appears to be declining over time
Well 11	G14066	G12736	NA	Proposed Well 11	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Well 12	G14070	G13035	NA	Proposed Well 12 (Watershed)	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use

RECEIVED

DEC 27 2004

WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON, }
County of Marion, }

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.97 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from four wells, being 0.22 c.f.s. from #1, 0.26 c.f.s. from #2, 0.22 c.f.s. from #3, & 0.27 c.f.s. from #4.

The use to which this water is to be applied is for municipal purposes.

If for irrigation, this appropriation shall be limited to _____ of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed _____ acre feet per acre for each acre irrigated during the irrigation season of each year; _____

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is April 22, 1974

Actual construction work shall begin on or before November 3, 1976 and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1977

Complete application of the water to the proposed use shall be made on or before October 1, 1978

WITNESS my hand this 3rd day of November, 19 75

James R. Sepp
Water Resources Director

F.H.
B

Application No. G- 6331
Permit No. G- G 6017

PERMIT

TO APPROPRIATE THE GROUND
WATERS OF THE STATE
OF OREGON

This instrument was first received in the
office of the State Engineer at Salem, Oregon,
on the 26 day of October
19 73, at 3:30 o'clock P. M.

Returned to applicant:

Approved:

Recorded in book No. _____ of
Ground Water Permits on page G 6017

STATE ENGINEER

Drainage Basin No. 2 page 134

fer 13022

MUNICIPAL SUPPLY—

13. To supply the city of Dundee, Oregon
in Yamhill county, having a present population of 820
and an estimated population of 1,500 in 1985.

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

14. Estimated cost of proposed works, \$ 410,000.00

15. Construction work will begin on or before August 1, 1973

16. Construction work will be completed on or before August 1, 1974

17. The water will be completely applied to the proposed use on or before August 1, 1975

18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. G-1263, P-17367, P-5932, P-8978, P-13880

M. B. Doughty, Jr.
(Signature of applicant)

Remarks:

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for _____ correction and completion _____

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before April 12, 1974.

WITNESS my hand this 12th day of February 1974

RECEIVED
APR 22 1974
STATE ENGINEER
SALEM, OREGON

CHRIS L. WHEELER
STATE ENGINEER
By *Thos E. Shook*
Thomas E. Shook
ASSISTANT

Permit No. G- G 6017

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon

I, City of Dundee
(Name of applicant)
of Dundee, Oregon, county of Yamhill
(Postoffice Address)
state of Oregon, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation

1895 an Oregon corporation

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated No. 2 and 4 - Willamette River; No. 3 - unnamed creek
(Name of stream)

tributary of Willamette River

2. The amount of water which the applicant intends to apply to beneficial use is _____ cubic feet per second or 100 gallons per minute. No. 2 - 115 GPM; No. 3 - 100 GPM; No. 4 - 120 GPM

3. The use to which the water is to be applied is municipal water system for City of Dundee

④ The well or other source is located XXXX ft. XXXX and XXXX ft. XXXX from the corner of See Attached Sheet (for 2, 3 & 4) #1 Well is located North 41° 22' 22" West 2066.80' From 1/4 Corner Common to Section 27 (If preferable, give distance and bearing to section corner)
Section 27 T3S, R3W Wm Yamhill Co. Oregon
(If there is more than one well, each must be described. Use separate sheet if necessary)
being within the 1/4 Northeast quarter of Sec. 27, Twp. 3 South, R. 3 West, W. M., in the county of Yamhill

5. The _____ to be _____ miles in length, terminating in the _____ of Sec. _____, Twp. _____, W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is City municipal system

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Valved #1 or direct flow into Spring intake when pumping.

8. The development will consist of three additional wells 7. #1 having a diameter of No. 2 - 12" No. 4 12" & 16" No. 2 - 115 No. 4 - 200 No. 2 115' No. 3 40' No. 4 200' and an estimated depth of No. 3 - 170 feet. It is estimated that No. 2 - 29 feet of the well will require steel casing. Depth to water table is estimated No. 2 - 29
(Kind) (Feet)
No. 3 - 01 No. 4 - 30 #1 - 104 PM Artesian

CANAL SYSTEM OR PIPE LINE— SEE MAP OF CITY SYSTEM

9. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake in.; in size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use, ft. Is grade uniform? Estimated capacity, sec. ft.

21 - 100 GPM LINE SHAFT TURBINE

10. If pumps are to be used, give size and type. No. 2 - 115 GPM deep well turbine; No. 3 - 100 GPM submersible; No. 4 - 120 GPM submersible

21 - 15 HP 440 3 PHASE ELECT

Give horsepower and type of motor or engine to be used. No. 2 - 20 HP 440 3 phase electric; No. 3 - 10 HP 220 volt 3 phase electric; No. 4 - 20 HP 440 volt 3 phase electric

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

No. 2 - 400 feet from Willamette River 30 feet above; No. 3 is 35 feet from unnamed creek 3 feet above; No. 4 is 100 feet from Willamette River 35 feet above

12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands

Township N. or S.	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
3 South	3 West	26	All	640
3 South	3 West	25	All	640
3 South	3 West	27	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	NE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6

(If more space required, attach separate sheet)

(See Attached Sheet)

Character of soil

Kind of crops raised quasi municipal

APPLICATION FOR A PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON Permit No. G _____

(4) Well No. 2 is located N 71°00'39" E 4377.26 feet
~~1522.82 feet North 89° 48' 40" East and 1181.84 feet South 89° 48' 40" West~~

~~1181.84 feet South 89° 48' 40" East and 1522.82 feet North 89° 48' 40" West~~ from the Southwest corner of Levi Hagey Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Southwest quarter of the Southwest quarter of Section 30, Township 3 South, Range 2 West.

Well No. 3 is located N 41°45'13" W 2126.22 feet
~~1522.82 feet North 89° 48' 40" East and 1181.84 feet South 89° 48' 40" West~~

~~North 89° 48' 40" East~~ from the quarter corner on the East line of Section 27, Township 3 South, Range 3 West, being within the Northwest quarter of the Northeast quarter of Section 27, Township 3 South, Range 3 West.

Well No. 4 is located N 70°42'54" E 3816.42 feet
~~1522.82 feet North 89° 48' 40" East and 1181.84 feet South 89° 48' 40" West~~

~~1181.84 feet South 89° 48' 40" East and 1522.82 feet North 89° 48' 40" West~~ from the Southwest corner of Levi Hagey Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Northeast quarter of the Northeast quarter of Section 36, Township 3 South, Range 3 West.

Letter dated May 3, 1974

Application No. G-6331
Permit No. G 6017

12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands.

TOWNSHIP N. or S.	RANGE E. or W. of WILLAMETTE MERIDIAN	SECTION	FORTY-ACRE TRACT	NUMBER ACRES TO BE IRRIGATED
3 South	3 West	35	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	34	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	34	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	35.2
3 South	3 West	36	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	8.8
3 South	2 West	31	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	5.8
3 South	2 West	30	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	NW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5

Application No. C-6331
Permit No. G 6017

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OVER THE COUNTER

APPLICATION TO
WATER RESOURCES DIRECTOR OF OREGON
FOR
EXTENSION OF TIME
FOR
GROUNDWATER RIGHT

APPLICATION NO. G-6331, PERMIT NO. G-6017

DECEMBER 2004

0.22 Well 1 CRB
0.22 Well 3 "

0.44
-0.34

0.20 Unvised CRB

0.26 Well 2 Alluvium
0.27 Well 4 "

0.53 Unvised alluvium

Submitted By:

THE CITY OF DUNDEE
PO BOX 220
620 SW 5th STREET
DUNDEE, OR 97115
(503) 538-3922

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APPLICATION TO
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FOR
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FOR
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APPLICATION NO. G-6331, PERMIT NO. G-6017

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Submitted By:

THE CITY OF DUNDEE
PO BOX 220
620 SW 5th STREET
DUNDEE, OR 97115
(503) 538-3922

APPLICATION FOR EXTENSION OF TIME

for Quasi-Municipal and Municipal Water Use Permits

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, the City of Dundee Eve Foote, City Administrator
NAME OF ENTITY NAME OF CONTACT

620 SW Fifth Avenue Dundee, OR 97115 (503) 538-3922
ADDRESS CITY STATE ZIP PHONE

permit holder, or duly authorized agent, of Application No. G-6331, Permit No. G-6017,
[OAR 690-315-0070(3)(b)], do hereby request that the time in which to:

- ☒ complete the construction of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1997, be extended to October 1, 2025.

and/or the time in which to:

- ☒ accomplish beneficial use of water to the full extent under the terms of the permit, which time now expires on October 1, 1997, be extended to October 1, 2025.

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

Eve L. Foote
Signature Eve Foote, City Administrator

12-22-04
Date

WTR

The "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" is continued on the following pages.

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PLEASE NOTE:

- * You should request the reasonable amount of time necessary to fully develop the permit and complete the project.
- * Permit extensions for Quasi-Municipal and Municipal permits are evaluated under OAR Chapter 690, Division 315. Except under limited circumstances (see OAR 690-315-0090), upon issuance of an order approving an extension of time, you will be required to submit a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 within 3 years. Diversion of water beyond the maximum rate currently diverted under the permit shall only be authorized upon approval of your WMCP. These rules may be viewed at: "www.wrd.state.or.us/law/oar1999.shtml"
- * Each item of the extension of time application includes instructions to assist you with your responses. Oregon Water Law and Administrative Rules require the Water Resources Department to consider these items when reviewing a Quasi-Municipal or Municipal water use permit extension application.
- * *A separate extension application must be submitted for each permit pursuant to OAR 690-315-0070(2). All items must be addressed or the application may be returned. Please feel free to provide the Department with any additional information or evidence that will aid us in making our decision.*
- * Once you have reviewed the extension of time application and instructions, if you have any questions, you may contact the Department at (503) 986-0800, and request assistance from the Water Rights Division, Permit Extensions personnel.

Reference Materials Needed to Complete this Application

Below is a listing of the minimum items you should review and consider as you are completing the extension of time application for your Quasi-Municipal or Municipal water use permit:

- * A copy of the subject permit. *If you do not currently have a copy of your water right permit, you may be able to download a copy from the Department's website (www.wrd.state.or.us) or you may contact the Department's Customer Service Information Group at (503)986-0801 to obtain a copy.*
- * Water Management and Conservation Plan (OAR Chapter 690, Division 86), *if applicable*, per Oregon Water Resources Department.
- * Water System Master Plan, *if applicable*, per Oregon Health Division.
- * Any supporting documentation demonstrating compliance with permit conditions, including but not limited to: well construction logs; static water level measurement reporting; annual water use reporting; a long-term alternative water supply plan; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit.
- * An inventory of all water rights (certificates, permits and/or applications) held by the applicant illustrating how the water rights are utilized. If any water rights are not used, please explain the reason(s) why. A sample form is enclosed for your reference (See Attachment "A").

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[OAR 690-315-0070(3)]

1. Submit the appropriate extension of time fee (\$250), as specified under ORS 536.050.

The application fee of \$250 is attached.

[OAR 690-315-0070(3)(c)]

2. Provide evidence of the actions taken to begin actual construction on the project as required under the applicable statute.

*#1 YAMH 4521 } Columbia River Barait
#2 YAMH 2660 }
#3 " 4551 }
#4 " 26727 } alluvial sediments*
Construction has been completed on the four wells under this water right. Well Nos. 1 and 3 are currently providing water to the City of Dundee, Well No. 2 is being held as a backup water source due to lower water quality, and Well No. 4 was damaged by flooding in 1996 and subsequently abandoned by the City.

↳ No abandonment log on file.

The yield of certain City wells has been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to the permitted rate as the City's demand increases.

[OAR 690-315-0070(3)(d)]

3. Describe and supply documentation of actions taken to develop the water right permit:
 - A. If this is the first extension request for this permit

Not Applicable.

OR

- B. If a prior extension was granted for this permit

The last authorized date for completion of construction and full beneficial use of water for this permit was October 1, 1997. The City of Dundee developed a Water System Master Plan in 2003 in accordance with Oregon State Department of Human Services requirements. Full development of the water right has been investigated in the Master Plan. The City's well yields have been continuously monitored and have been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to the permitted rate.

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- [OAR 690-315-0070(3)(i)]*
8. **Provide an estimate of the cost necessary to complete the water development.**

ITEM	BUDGET
a. Groundwater Aquifer Exploration (Exploratory Well Drilling)	\$ 250,000
b. Well Rehabilitation (Additional Depth)	\$ 100,000
c. Pump Station and Piping Improvements	\$ 250,000
Total	\$ 600,000

Completion of the above items is dependent on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

- [OAR 690-315-0070(3)(j)]*
9. **List and describe all events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if any), relating to the project that have significantly delayed completion of construction or perfection of the right.**

The yield of certain City wells has been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to apply the water to full beneficial use as the City's demand increases.

- [OAR 690-315-0070(3)(k)]*
- 10-A. **Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights and contracts held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use.**

A Municipal Water Uses and Projected Needs form is attached to this application. This attachment estimates long term water demand projections for the City of Dundee's customers, and contains a description of the methodology used. As a municipal corporation, the City of Dundee is responsible for obtaining and developing long-term water supply for its customers. The water demand projection presented in the attachment is consistent with the amounts and types of land and uses that are and will be served by the City of Dundee. The future water demand will result from a combination of increased population within the current service area, expansion of the service area, and changing types of uses. The development of this water right to full beneficial use is dependent on actual city wide water demand, growth, and on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

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SALEM, OREGON**

[OAR 690-315-0070(3)(k)]

- 10-B. Extension requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.

Not Applicable

[OAR 690-315-0070(3)(l)]

11. Provide a summary of the future plan and schedule to complete construction and/or perfect the water right.

Completion of the schedule of improvements listed below is dependent on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

ITEM	YEAR
a. Groundwater Aquifer Exploration and Development (Exploratory Well Drilling)	2005-2010
b. Well Rehabilitation (Additional Depth)	2010-2025
c. Pump Station and Piping Improvements	2010-2025

[OAR 690-315-0070(3)(m)]

12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

See attachments submitted with this extension of time application.

[OAR 690-315-0070(3)(n)]

13. Provide any other information you wish the Department to consider while evaluating the extension of time application.

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**WATER RESOURCES DEPT
SALEM, OREGON**

Before submitting, make sure the following items are included:

- * Completed Extension of Time application;
- * Statutory fee of \$250 (pursuant to ORS 536.050);
- * Extension of Time application Signature Page (*page 1 of application*); and
- * All supporting documentation and/or evidence referenced in the application.

Mail the above items to: **Water Right Permit Extensions
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271**

last revised: September 24, 2004
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ATTACHMENTS

City of Dundee Water Use and Projected Needs Description

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**SUPPLEMENT TO APPLICATIONS FOR EXTENSION OF TIME
FOR CITY OF DUNDEE**

WATER USES AND PROJECTED NEEDS

1. CURRENT WATER DEMANDS

Water demand estimates were developed from a review of historical water consumption records and data provided by the City and regional population forecasts specifically generated to reflect the water service area.

Historical Water Use

The term "water demand" refers to all the water requirements of the system including domestic, commercial, municipal, institutional and industrial as well as unaccounted-for water. Demands are discussed in terms of gallons or gallons per unit of time such as million gallons (MG), gallons per day (GPD), million gallons per day (MGD) or gallons per minute (GPM). Demands are also related to per capita use as gallons per capita per day (GPCD). The City of Dundee maintains records of historical monthly water usage by customers. Table 1 summarizes this data for the years 1999 through 2002.

Existing Water Demands

Based on historical water usage patterns and historical population, the water service area's average daily demand has been approximately 0.4 million gallons per day (MGD) with a per capita consumption of approximately 145 gallons per capita per day (GPCD). Recent maximum daily water demand usage has been as high as approximately 0.95 MGD in 2000. The annual demands and the monthly average demand during peak season for the years 1999 through 2002 are summarized in Table 1.

**Table 1
Historical Water Use Summary**

Year	Water Service Area Population	Water Demand			
		Average Day Demand (MGD)	Peak Day Demand (MGD)	Annual Demand (MG)	*Peak Season Monthly Average Demand (MG)
1999	2,478	0.41	0.91	150.4	19.95
2000	2,598	0.43	0.95	157.5	20.34
2001	2,670	0.38	0.69	139.1	19.64
2002	2,770	0.38	0.81	137.5	20.09

*Peak Season is June through September

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2. PROJECTED POPULATION AND WATER DEMAND

Existing Population

Historical population estimates were obtained through the analysis of data provided by the City of Dundee and the Center for Population Research and Census (CPRC) at Portland State University. The CPRC data represents estimates of Dundee's population inside the existing City limits as of July 1 each year. Population estimates for the beginning of each decade are based on census counts published by the U.S. Census Bureau, while annual estimates between the census counts are derived by analyzing supplemental data, including economic changes, building permits issued, and annexations. Table 2-1 presents a summary of these historical population estimates from 1970 through 2002. The average annual growth rate over this period was approximately 5.0 percent. The most current published population figures for the year 2002 place the City's population at 2,770 residents, while the 2003 population of approximately 2,882 is a projection.

The City of Dundee currently supplies water to approximately 2,882 people through approximately 1,000 residential service connections. Based on current City data, there are approximately 2.8 persons per equivalent dwelling unit (EDU). This results in approximately 1,030 existing dwelling units (DUs).

Table 2-1
Historical and Current Population Summary

Year	Population
1970	588
1980	1,223
1990	1,663
2000	2,598
2001	2,670
2002	2,770
2003	2,882

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SALEM, OREGON**

Table 2-2 summarizes estimates of the existing population and DUs within each pressure zone.

Table 2-2
Existing Population and Equivalent Dwelling Units Summary

Pressure Zone	Area (acres)	Equivalent Dwelling Units	Population
Upper Zone	23.4	45	125
Intermediate Zone	86.5	200	560
Lower Zone	374.3	785	2,197
Total	484.2	1,030	2,882

Population Forecast

As part of on-going population forecasting efforts, population projections have been developed and summarized in Table 2-3. In 1998 the City had approximately 270 acres of net buildable land available within the UGB. Using the established planning densities of 4 lots per acre for R1 zoning, 5 lots per acre for R2 zoning, 9 lots per acre for R3 zoning, 5 lots per acre as an assumed value for the agricultural area, and an occupancy rate of 3 people per lot, the saturation development population is projected to be 6,350.

Table 2-3
Saturation Development Population Projection Summary

Zoning Designation	Net Buildable Land (acres)	Estimated Population
1998 Baseline Population	-	2,383
R-1	39.1	469
R-2	5.0	75
R-3	5.9	159
Residential/Agricultural	217.6	3,264
Saturation Development		6,350

Yamhill County's Transportation System Plan (TSP) projects a City population of approximately 9,127 in 2020 using a growth rate of 5.76%. The Oregon Office of Economic Analysis (OEA) has estimated Yamhill County's population to be 119,589 in the year 2020 with Dundee's population being only 1.7% of Yamhill County's population or approximately 3,994. Taking into consideration historical growth rates, TSP growth estimates, OEA growth estimates and the available buildable land within the existing UGB, the City has adopted a population of 5,750 in the year 2020. This correlates to a growth rate of 4.05% between the 2000 census population and the adopted 2020 population, which will be used for population projections. Table 2-4 presents a population forecast summary.

Table 2-4
Population Forecast Summary

Year	Population
2002	2,770
2003	2,882
2008	3,515
2013	4,286
2018	5,228
2020	5,750
2023 (UGB Saturation Development)	6,350

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For water system planning purposes, it is prudent to use the saturation development population forecasting methodology. This methodology provides for the most economical development of water infrastructure improvements by assuming full occupancy at saturation development conditions allowing for actual development to progress without incurring additional costs for facility duplication.

Water Demand Projections

Future water demand estimates were developed by projecting historical flows using the same relative growth as the population. As growth continues, both residential infill and zoning expansions are expected, resulting in an increased population density and an overall water demand. For the purposes of this plan, estimated average daily water usage is assumed to remain constant at approximately 145 GPCD.

Dundee's water demand patterns have varied greatly over the past few years. Historical maximum day per capita usage has been as low as 260 GPCD and as high as 360 GPCD. As conservation plays an increasing role in water usage patterns, it is anticipated that Dundee's maximum daily per capita usage can ultimately be maintained at approximately 320 GPCD, even in drought years.

Future maximum day per capita usage is estimated at approximately 320 GPCD. Estimated average and maximum day water demands are developed by multiplying the estimated per capita usage by the anticipated population for that year. To provide an estimate of peak hourly usage, a factor of 1.5 was applied to the estimated maximum day water demands. This is consistent with water demand patterns of similar communities in the region. Population projections and anticipated water demands, in five-year increments through saturation development, are summarized in Table 2-5.

Table 2-5
Population Forecasts and
Estimated Water Demand Summary

Year	Population	Water Demand (MGD)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
2003	2,882	0.42	0.92	1.38
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (UGB Saturation Development)	6,350	0.92	2.03	3.05

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SALEM, OREGON

3. POTENTIAL GROWTH

Service Area

The City of Dundee Urban Growth Boundary (UGB), as defined by the City's comprehensive plan, encompasses approximately 747 acres, while the City limits include approximately 900 acres. Approximately 153 acres of land inside the City limits is outside of the UGB and is non-developable flood plain land. The City water system currently provides service to the area within the UGB as well as to several connections outside of this boundary. The services outside the UGB have historically accounted for approximately six percent of the water demand and are anticipated to continue being served at this same level by the City throughout the planning period (2023).

The City of Dundee's future water service area includes the area enclosed within the established UGB. According to Dundee's Buildable Lands Inventory and Urbanization Project report, the agricultural area within the UGB is expected to be rezoned as residential prior to the saturation development of the UGB with a population density of five people per net available acre. This assumption was incorporated in the demand estimates discussed above.

4. INVENTORY OF WATER RIGHTS HELD

Existing Water rights and Permits

The City of Dundee currently holds surface water rights on nine sources and groundwater rights on eleven sources. Attachment "A" summarizes the existing water rights and the corresponding amount of beneficial water use.

Supply Sources

The City is supplied water from nine groundwater wells located in and around the City that pump water from the Columbia River Basalt Group Formation (CRBG) aquifers. All but two of these wells are City owned. The City owns an additional well, referred to as Well No. 4 or old river well, which is no longer operational. These wells have a total combined production capacity of approximately 1.14 million gallons per day (MGD) under normal operating conditions. Water from each well is either pumped to a storage reservoir or is pumped into the water distribution system. All of the supply wells are equipped with submersible pumps and disinfection at all wells is by liquid chlorine injection. Table 4-1 presents a summary of the supply wells and a brief description of each well is presented below. Also presented is a brief discussion of the City's surface water and groundwater sources and associated water rights that are currently not being used.

*From Elsie Creek
not used as
abandoned.*

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SALEM, OREGON**

**Table 4-1
Groundwater Well Pump, Depth and Production Summary**

City Well No.	OWRD Source Name	Horse-power (hp)	Total Well Depth (feet)	Approximate Existing Production Capacity (gpm)
1	Well 1 227H 4561	15	103	53
2	Well 3 4551	10	200	54
3	Supply Well 45-A/4538	7.5	471	35
5	Well 5 4528	7.5	160	135
6	Well 6 4531	7.5	160	135
7	Well 7 4550	10	215	80
8	Well 7A 1656	10	304	130
9	First Street Well 1859 53883	20	385	145
10	Alder Street Well 1254	10	482	50
Total Supply Source Production Capacity¹				790 (1.14 MGD)

*8-2017 #1
6-2017 #3
6-1263
CWT 29157*

1. Total supply source production capacity is the sum of the production capacities of all operational well pumps.

Well Nos. 1, 2, 7 and 8

The City operates four wells and a pumping facility on a parcel of land located approximately 1.25 miles west of the City limits. These are City Well Nos. 1, 2, 7 and 8, and are also collectively referred to as the Spring Wells. Extension of Time is needed for well Nos. 1, 2 and 8. Each well pumps water to a 6,000 gallon clearwell where it is chlorinated and then pumped through a 6-inch diameter pipe to the 0.2 million gallons (MG) Reservoir. The wells at this site have a combined production capacity of approximately 320 gallons per minute (gpm) and are described below:

- Well No. 1 is capable of producing approximately 53 gpm of water. The well was constructed in 1971, has an 8-inch diameter casing, a depth of approximately 103 feet, and a wellhead elevation of approximately 440 feet. *212 + 42*
- Well No. 2 is capable of producing approximately 54 gpm of water. The well was constructed in 1973, has an 8-inch diameter casing, a depth of approximately 200 feet, and a wellhead elevation of approximately 429 feet. *212 + 43*
- Well No. 7 is capable of producing approximately 80 gpm of water. The well was constructed in 1988, has an 8-inch diameter casing, a depth of approximately 215 feet, and a wellhead elevation of approximately 451 feet.
- Well No. 8 is capable of producing approximately 130 gpm of water. The well was constructed in 1991, has an 8-inch diameter casing, a depth of approximately 304 feet, and a wellhead elevation of approximately 460 feet.

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SALEM, OREGON**

Well No. 3 Permit G-1263, 2001/2002 29157

Well No. 3, also referred to as the deep well or supply well, is located adjacent to the City's 0.4 MG Reservoir, near the intersection of SW Upland Drive and SW Red Hills Loop. This well has a current production capacity of approximately 35 gpm, a 16-inch diameter casing, a depth of approximately 471 feet, and a wellhead elevation of approximately 400 feet. Water from Well No. 3 is chlorinated at the wellhead and pumped directly into the 0.4 MG Reservoir. The well was originally constructed in 1956 to a depth of approximately 385 feet and was increased to a depth of approximately 471 feet in 1960. This well had a production capacity of approximately 65 gpm in 1980, approximately 41 gpm in 1991, and a recorded production capacity of approximately 35 gpm in 2002. Due to the steadily declining water production rates, static water level data is being gathered on Well No. 3 to better assess the well's long term production potential.

Well Nos. 5 and 6 Permit G-6017

Well Nos. 5 and 6, also referred to as the Pruitt Wells, are located on private property near the intersection of SW 9th Street and SW Alder Street and are not owned by the City. The City has an agreement with the current property and well owners to purchase water from these wells during high water demand periods. Well No. 5 is capable of producing approximately 135 gpm of water. The well was constructed in 1977, has a 6-inch diameter casing, a depth of approximately 160 feet, and a wellhead elevation of approximately 220 feet. Well No. 6 is capable of producing approximately 135 gpm of water. The well was also constructed in 1977, has a 6-inch diameter casing, a depth of approximately 140 feet, and a wellhead elevation of approximately 220 feet. While other wells appear to have declining production yields, Well Nos. 5 and 6 appear to be producing consistent yields over time.

Well No. 9

Well No. 9, also referred to as the First Street Well, is located in the northwest section of the City near the intersection of SW First Street and Highway 99W. Extension of Time is needed for well No. 9. This well became operational in 2002 and has an 8-inch diameter casing, a depth of approximately 385 feet, and a wellhead elevation of approximately 220 feet. Water from Well No. 9 is chlorinated at the site and pumped directly into the lower pressure zone at a rate of approximately 145 gpm.

Well No. 10

Well No. 10, also referred to as the Alder Street Well, is located near the southern edge of the City limit boundary near the intersection of SW Alder Street and SW Niederberger Road. Extension of Time is needed for well No. 10. This well became operational in 1991 and has an 8-inch diameter casing, a depth of approximately 482 feet, and a wellhead elevation of approximately 180 feet. For approximately nine years following well construction it produced approximately 100 gpm. Recently static water levels in the vicinity of Well No. 10 appear to be declining along with the well's production capacity. The well discharge is currently throttled such that the well currently produces

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approximately 50 gpm. Water from Well No. 10 is chlorinated at the site and pumped into the lower pressure zone.

In-Active Groundwater Sources

The City holds water rights on three groundwater sources that are not currently connected to the City's water supply system and are not being utilized at this time. Extension of Time is needed for well Nos. 4 (River Well), 11 and 12. These wells will become incorporated into the City's water supply system to increase the overall supply source capacity over time as demand increases. The long term production rates of these wells are not currently known.

In-Active Surface Water Sources

Prior to the development of the City's current groundwater supply wells the City relied on surface water springs located west of the City. According to discussions with City staff these spring sources consist of small cast-in-place concrete catchment tubs and are maintained as a back-up supply. Additionally, the City is requesting an Extension of Time on the Willamette River Source that will be held for potential future needs.

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SALEM, OREGON**

Attachment "A"

City of Dundee, Oregon Existing Water Rights and Permits Surface Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Spring	9028	S5932	8781	A Spring, Harvey Creek	Municipal	6/20/1923	0.5 (224)	0	Held as an emergency water supply source
Spring	9028	S5932	8781	A Spring, Harvey Creek	Municipal	6/20/1923	0.5 (224)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 1, Harvey Creek	Municipal	3/25/1929	0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 1, Harvey Creek	Municipal	3/25/1929	0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 2, Harvey Creek	Municipal	3/25/1929	0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 2, Harvey Creek	Municipal	3/25/1929	0.5 (22)	0	Held as an emergency water supply source
Mossy Spring	18173	S13880	14654	Mossy Spring, Harvey Creek	Municipal	6/8/1939	0.007 (3)	0	Held as an emergency water supply source
Harvey Creek	22077	S17367	17145	Harvey Creek	Municipal	11/7/1946	0.25 (112)	0	Held as an emergency water supply source
Willamette River	58951	S44462	NA	Willamette River	Municipal	7/24/1979	4.0 (1795)	0	Source not yet developed. Source for potential future surface water treatment plant

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**WATER RESOURCES DEPT
SALEM OREGON**

Attachment "A" Continued

City of Dundee, Oregon Existing Water Rights and Permits Ground Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Well 1	G6331	G6017	NA	YAMH 4501 Well 1 (meter)	Municipal	4/22/1974	0.22 (99)	53	Current pumping capacity is lower than the permitted rate
Well 2	G6331	G6017	NA	YAMH 4551 Well 3 (meter)	Municipal	4/22/1974	0.22 (99)	54	Current pumping capacity is lower than the permitted rate
Well 3 Deep Well	G1217	G1263	29157	YAMH 4549 4538 Supply Well (meter)	Municipal	11/28/1958	0.18 (81)	35	Production capacity appears to be declining over time
Well 4 River Well	G6331	G6017	NA	YAMH 2460 Well 2 (meter)	Municipal	4/22/1974	0.26 (116)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Old River Well	G6331	G6017	61759	YAMH 2672 Well 4 (abandoned)	Municipal	4/22/1974	0.27 (121)	0	Well has been abandoned
Well 7	G11866	G11058	NA	YAMH 4550 Well 7 (meter)	Municipal	10/31/1988	0.33 (148)	80	Current pumping capacity is lower than the permitted rate
Well 8	G12568	G12685	NA	YAMH 1656 Well 7A (meter)	Municipal	6/7/1991	0.334 (150)	130	
Well 9 1st Street	G12568	G12685	NA	YAMH 1659/52823 1st Street Well	Municipal	6/7/1991	0.334 (150)	145	
Well 10 Alder Street	G12568	G12685	NA	YAMH 1658 Alder Street Well (meter)	Municipal	6/7/1991	1.114 (500)	50	Production capacity appears to be declining over time
Well 11	G14066	G12736	NA	Proposed Well 11	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use
Well 12	G14070	G13035	NA	Proposed Well 12 (Watershed)	Municipal	5/19/1995	0.5 (225)	0	Pumping, treatment and transmission facilities need to be installed prior to use

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WATER RESOURCES DEPT
SALEM, OREGON

APPENDIX A

Copy of Original Permit/Water Right Information Query Results

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WATER RESOURCES DEPT
SALEM, OREGON

Water Rights Information Query Results

Owner(s) Information

CITY OF DUNDEE
DUNDEE OR 97115

Application(s)

Application	Received	
G 6331		Map

Permit(s)

Permit	Signature	
G 6017	11/03/1975	Map

Certificate(s)

n/a

Claim(s)

n/a

Decree(s)

n/a

Order(s)

n/a

Transfer(s)

n/a

Misc. Info

Authority	File Location
	Salem

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**WATER RESOURCES DEPT
SALEM, OREGON**

Document Process

n/a

Point(s) of Diversion

Location (T-R-S-QQ)	DLC/Lot	Source	Tributary to	Max Rate	Rate	Max Acre Feet	Acre Feet	Legal Description	Rema
3.0S-3.0W-27-NWNE		WELL 1	UNN STR	0.22	0.22			N 41 DEGREES 22 MINUTES 22 SECONDS WEST 2066.8 FT FROM E1/4 COR, SEC 27	

Uses from this Point of Diversion

Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Status	Remarks
MU	P	04/22/1974	1/1	12/31				0.22	0.22			NC	

3.0S-2.0W-30-SWSW		WELL 2	UNN STR	0.26	0.26			N 71 DEGREES 0 MINUTES 39 SECONDS E 4377.26 FT FM SW COR LEVI HAGEY DLC, S36	
-------------------	--	--------	---------	------	------	--	--	--	--

Uses from this Point of Diversion

Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Status	Remarks
MU	P	04/22/1974	1/1	12/31				0.26	0.26			NC	

3.0S-3.0W-27-NWNE		WELL 3	UNN STR	0.22	0.22			NORTH 41 DEG 45 MIN 13 SEC WEST 2126.22 FEET FROM E1/4 CORNER, SECTION 27	
-------------------	--	--------	---------	------	------	--	--	---	--

Uses from this Point of Diversion

Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre	Acre Feet	Status	Remarks
-----	-----	---------------	------------	----------	-------	-----------	------	----------	------	----------	-----------	--------	---------

Place of Use

Use	P/S	Priority Date	Location (T-R-S-QQ)	DLC/Lot	Acres	Status	Remarks
MU	P	04/22/1974	3.0S-2.0W-30-NWNW			NC	
MU	P	04/22/1974	3.0S-2.0W-30-SWNW			NC	
MU	P	04/22/1974	3.0S-2.0W-30-NWSW			NC	
MU	P	04/22/1974	3.0S-2.0W-30-SWSW			NC	
MU	P	04/22/1974	3.0S-2.0W-31-NWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NENW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SENW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NESW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NWSW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SWSW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SESW			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NESE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-NWSE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SWSE			NC	
MU	P	04/22/1974	3.0S-3.0W-25-SESE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NENW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SENW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NESW			NC	

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SALEM, OREGON

MU	P	04/22/1974	3.0S-3.0W-26-NWSW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SWSW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SESW			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NESE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-NWSE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SWSE			NC	
MU	P	04/22/1974	3.0S-3.0W-26-SESE			NC	
MU	P	04/22/1974	3.0S-3.0W-27-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-27-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-27-NESE			NC	
MU	P	04/22/1974	3.0S-3.0W-27-SESE			NC	
MU	P	04/22/1974	3.0S-3.0W-34-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-34-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-35-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-35-NWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-35-SWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-35-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-35-NENW			NC	
MU	P	04/22/1974	3.0S-3.0W-35-NWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-35-SWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-35-SENW			NC	
MU	P	04/22/1974	3.0S-3.0W-36-NENE			NC	
MU	P	04/22/1974	3.0S-3.0W-36-NWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-36-SWNE			NC	
MU	P	04/22/1974	3.0S-3.0W-36-SENE			NC	
MU	P	04/22/1974	3.0S-3.0W-36-NENW			NC	
MU	P	04/22/1974	3.0S-3.0W-36-NWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-36-SWNW			NC	
MU	P	04/22/1974	3.0S-3.0W-36-SENW			NC	

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SALEM, OREGON**

View Water Rights in same Family

Return to the Water Right Information search screen

Phillip C. Ward, Director

Oregon Water Resources Department • 725 Summer ST NE, Suite A • Salem, OR 97301 • Phone: 503-986-0900 • Fax: 503-986-0903

APPENDIX B

Water Well Reports

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DEC 27 2004

WATER RESOURCES DEPT
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR

The original and first of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310

within 30 days from the date of well completion

RECEIVED
OCT 21 1971
STATE OF OREGON
STATE ENGINEER
SALEM, OREGON

Well 1 on Permit G-20123 KCW
City Well #1

Well #1
State Well No. 3/3W-27
State Permit No.

(1) OWNER:

Name City of Dundee
Address Dundee, Ore. 97115

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☒ Test Well ☒ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒
2" Diam. from _____ ft. to 62'-10" ft. Gage 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Name of perforator used _____

Size of perforations in. by in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Drillers

Yield: 180 gal./min. with 83 ft. drawdown after 4 hrs.

30-71 60 " 8'6" Plaster 3 min

Ball test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered _____ ft.

CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 29' ft.

Diameter of well bore to bottom of seal 12 3/4" in.

Diameter of well bore below seal 8" in.

Number of sacks of cement used in well seal 18 sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons

of water _____ lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel _____ ft. to _____ ft.

(10) LOCATION OF WELL: Rural

County Farmington Driller's well number 7113

Section 27 T. 35 R. 3W W.M.

Bearing and distance from section or subdivision corner

See Preliminary report

(11) WATER LEVEL: Completed well.

Depth at which water was first found 20" ft.

Static level _____ ft. below land surface. Date _____

Artesian pressure 11# lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 103'9" ft. Depth of completed well 103'9" ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top	0	2	
Gravel	2	7	
Gravel w/ fine	7	53	
Soft basalt	53	56	
Grey basalt	56	74	
Soft grey	74	82	
Grey basalt	82	93	
Grey basalt w/ yellow particles	93	97	
Grey basalt	97	103'9"	
Static	0	7	20"
well water pumped	7	95	0'
45 to 100 ft. 6' gpm	45	95	0'
pump - 14" to 15.4 PL.	95	103'9"	30 gpm

Work started 5-28 19 71 Completed 7-18 19 71

Date well drilling machine moved off of well 7-14 19 71

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Edgar J. Mullen Date 9-5, 19 71

(Drilling Machine Operator)

Drilling Machine Operator's License No. 581

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Milo Schneider Eng Co.

(Person, firm or corporation) (Type or print)

Address Star Rt. Box 97 St. Paul, Ore.

[Signed] Milo Schneider

(Water Well Contractor)

Contractor's License No. 387 Date 10-1- 71

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-43656-119

DEC 27 2004

WATER RESOURCES DEPT
SALEM, OREGON

ORIGINAL
File Original and
Duplicate with the
STATE ENGINEER,
SALEM, OREGON

Deepening log for City well #3
Not listed as POK on Permit G-6017

YAMHILL

State Well No.

3/3W-2661

STATE OF OREGON

State Permit No. 6 1263

(1) OWNER:

Name City of Dundee
Address Dundee Oregon

(2) LOCATION OF WELL:

County Yamhill Owner's number, if any—
SW 1/4 NE 1/4 Section 26 T. 3 S. R. 3 W. W.M.
Bearing and distance from section or subdivision corner

TYPE OF WORK (check):

Tell ☐ Deepening ☒ Reconditioning ☐ Abandon ☐
Comment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒ Rotary ☐ Driven ☐
ation ☐ Test Well ☐ Other ☐ Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(5) TYPE OF WELL:

(6) CASING INSTALLED:

Threaded ☐ Welded ☐

" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

SIZE of perforations	in. by	in.
perforations from _____ ft. to _____ ft.		
perforations from _____ ft. to _____ ft.		
perforations from _____ ft. to _____ ft.		
perforations from _____ ft. to _____ ft.		
perforations from _____ ft. to _____ ft.		

(8) SCREENS:

Well screen installed ☐ Yes ☐ No

Manufacturer's Name _____ Model No. _____
Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Well gravel packed? ☐ Yes ☐ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? ☐ Yes ☐ No To what depth? _____ ft.
Material used in seal—
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: Mayor of City Dundee
[Signed] Harry B. B. Date April 13, 1960
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

Bailer test	gal./min. with	ft. drawdown after	hrs.
"	"	"	"

Artesian flow	g.p.m.	Date
"	"	"

Temperature of water _____ Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:

Diameter of well _____ inches.

Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Open	0	380
Black Basalt	380	437
gray "	437	452
Black "	452	471

Reduced to 8 in at
390 ft

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WATER RESOURCES DEPT.
SALEM OREGON

Work started 2/23 1960 Completed 3/17 1960

(13) PUMP:

Manufacturer's Name _____

Type: _____ H.P. _____

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME George Zent + Son
(Person, firm, or corporation) (Type or print)

Address 4305 NE 4th St

Driller's well number _____

[Signed] George Zent
(Well Driller)

License No. 728 Date 4-12, 1960

(USE ADDITIONAL SHEETS IF NECESSARY)

Dpn of
44549
Not on this
permit
listed as
source on
P 6-126
cont 29151 X

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310
Within 30 days from the date of well completion.

Well #3 on Permit 6-6017.
City Well #2 New

YAMHILL WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

RECEIVED

MAR 13 1973

STATE ENGINEER
SALEM, OREGON

(City) Well #2
WRD #3
35/3W-27

(1) OWNER:

Name City of Dundee
Address Dundee, Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
P ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
8" Diam. from 0 ft. to 40 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

gal./min. with ft. drawdown after hrs.

Ball test 100 gal./min. with 160 ft. drawdown after 2 hrs.

dan flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 40 ft.

Diameter of well bore to bottom of seal 12 in.

Diameter of well bore below seal 8 in.

Number of sacks of cement used in well seal 40 sacks

Number of sacks of bentonite used in well seal - sacks

Brand name of bentonite

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? depth of strata

Method of

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed in ft. to ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number
1/4 Section 27 T. 3 S. R. 3 W. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 16 ft.
Static level 0 ft. below land surface. Date 3/8/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 200 ft. Depth of completed well 200 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata

MATERIAL	From	To	BWL
Red-brown clay	0	4	
Weathered brown basalt with brown clay seams	4	16	
Broken brown basalt-water bearing, occ. hard streak of gray-black basalt	16	65	
Visicular red-brown basalt	65	68	
Broken brown basalt w/brown soapstone	68	80	
Broken gray-black basalt - waterbearing	80	85	
Broken gray-black and brown basalt - waterbearing	85	105	
Hard gray-black basalt	105	110	
Fractured gray-brown basalt waterbearing	110	120	
Hard fractured gray-black basalt - waterbearing	120	165	
Broken gray basalt-hard	165	170	

Work started 2/28/73 10 Completed 3/8/73 19

Date well drilling machine moved off of well 3/8/73 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date 3/9/73, 19

Drilling Machine Operator's License No. 523

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name A. M. Jannsen Drilling Co. (Type or print)

Address 21075 S.W. Tualatin Valley Hwy. Aloha, Oregon

[Signed] Date 3/9/73, 19

Contractor's License No. 79 Date 3/9/73 19

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DEC 27 2004

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-43556-119

WATER RESOURCES DEPT
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR:
The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WELL # 2 on permit G-6017
City Well # 4
RECEIVED
NOV 27 1972
STATE OF OREGON
STATE ENGINEER
SALEM, OREGON
(Do not write above this line)

Well #4
State Well No. 35/3W-30
State Permit No. _____

(1) OWNER:

Name City of Dundee
Address Dundee, Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
12" Diam. from 0 ft. to 115 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Millknife

Size of perforations 1/2 in. by 3 in.
56 perforations from 62 ft. to 66 ft.
64 perforations from 98 ft. to 103 ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? driller

Yield: 110 gal./min. with 26 ft. drawdown after 24 hrs.

Baller test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement grout

Well sealed from land surface to 29 ft.

Diameter of well bore to bottom of seal 25 in.

Diameter of well bore below seal 25 in.

Number of sacks of cement used in well seal 5 yds. sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons

of water _____ lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 3/4

Gravel placed from 29 ft. to 115 ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number _____
1/4 1/4 Section 30 T. 3S R. 3W W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 36 ft.
Static level 29 ft. below land surface. Date 10/30/72
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled 115 ft. Depth of completed well 115 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Surface	0	4	
Brown sandy clay	4	36	
Brown gravel	36	45	25
Brown sand	45	54	
Blue clay	54	62	
Blue sandy shale	62	65	25
Blue clay	65	98	
Blue sandy clay	98	102	25
Brown clay	102	115	

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WATER RESOURCES DEPT
SALEM, OREGON

Work started October 10 1972 Completed October 30 1972

Date well drilling machine moved off of well October 31 1972

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] John T. Miller Date Nov 27, 1972
(Drilling Machine Operator)

Drilling Machine Operator's License No. 26

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name John Truman Miller
(Person, firm or corporation) (Type or print)

Address P O Box 341 Hubbard, Oregon 97032

[Signed] John T. Miller
(Water Well Contractor)

Contractor's License No. 277 Date November 27, 1972

APPENDIX C

Daily Well Meter Readings – November 2004

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**WATER RESOURCES DEPT
SALEM OREGON**

Spring Area Daily Report

November 2004

Date	Int.	Time	Pump 1	Hrs	Pump 2	Hrs	Flow meter	Gallons	Gen.	Reservoir
30	AN	927	176228		20646.8		12027406	12227406	444.7	28.4
29	MY	830	176190	5.4	20641.0	7.6	11899700	174500	444.1	29.5
28	TM	747	17613.6	5.7	20633.4	6.6	11725200	165500	444.1	29.9
27	TM	838	17607.9	4.4	20626.8	4.3	11559700	116100	444.1	28.4
26	TM	920	17603.5	7.5	20622.5	6.8	11442600	193500	444.1	30.4
25	GM	830	17596.0	5.0	20615.0	3.6	11244100	117100	444.1	28.8
24	WV	833	17591.0	4.9	20612.1	5.9	11132000	145000	444.1	30.7
23	TM	907	17586.1	1.9	20606.2	7.2	10987000	120300	444.1	29.0
22	M	830	17584.2	6.8	20594.0	6.1	10866700	174200	443.5	30.4
21	L	0945	17577.4	6.0	20592.9	5.1	10692500	149500	443.5	28.4
20	C	0910	17571.4	3.3	20587.8	7.0	10543000	137500	443.5	30.5
19	Z	0824	17568.1	3.4	20580.8	8.6	10405500	160000	443.5	29.6
18	C	0830	17564.7	1.6	20572.2	5.9	10245500	99600	443.5	28.1
17	MY	841	17563.1	4.6	20566.3	6.7	10145900	151400	443.5	30.9
16	CS	0840	17558.5	4.6	20559.4	4.8	9994500	126700	443.5	28.7
15	CS	0850	17553.9	4.3	20554.8	7.7	9867800	160600	442.9	28.7
14	AL	1200	17549.6	4.5	20547.1	6.3	9707200	142500	442.9	28.6
13	AL	1159	17545.1	6.0	20540.8	5.8	9567000	161200	442.9	29.1
12	C	0820	17539.1	4.6	20535.0	4.9	9403500	128400	442.9	28.5
11	AL	1128	17534.5	5.7	20530.1	4.8	9275100	142400	442.9	30.5
10	M	850	17528.8	4.2	20525.3	6.2	9132700	139400	442.9	28.9
9	CS	0835	17524.6	6.1	20519.1	4.4	8993300	142000	442.9	30.7
8	M	850	17518.5	5.4	20514.7	7.4	8857300	171700	442.3	29.1
7	MY	720	17513.1	3.8	20507.3	9.3	8679600	173800	442.3	29.7
6	WV	842	17509.3	3.1	20498.0	5.4	8505800	112800	442.3	30.8
5	CS	920	17506.2	1.5	20492.6	7.3	8393000	118500	442.3	28.3
4	MY	910	17504.7	6.1	20485.3	5.7	8274500	143900	442.3	28.2
3	C	0920	17499.6	8.1	20479.6	5.7	8130600	206300	442.3	28.5
2	C	0820	17491.5	4.5	20473.9	6.6	7944300	149500	442.3	28.4
1	WV	948	17487.0	6.2	20467.3	6.4	7744800	177200	441.7	28.7
			17480.8		20460.4		7617600			

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WATER RESOURCES DEPT
SALEM, OREGON

TOTAL

Well 1

Well 2

Well 7

Well 8

4,409,800

7261240

3647340

960360

5056490

November 2004

Date	Meter Reading	Production	Time	Int.	Chlorine	used
30	34373000	29800	941	tn	30	5
29	38343200	28500	825	nt	35	4
28	38314700	27600	753	tn	39	5
27	38297100	27700	832	tn	44	6
26	38259400	29700	909	tn	5	5
25	38230500	28800	836	tn	10	6
24	38201700	27500	530	lt	16	5
23	38173900	29200	900	tn	21	5
22	38144700	26200	825	nt	26	4
21	38115500	27900	0930	cy	30	5
20	38090600	28900	0820	cy	35	5
19	38061700	28000	0820	cy	40	5
18	38032700	28400	0825	cs	45	5
17	38002200	29100	0820	cy	0	5
16	37976200	28600	0820	cy	5	5
15	37947600	25200	0840	cs	11	4
14	37922400	30700	1153	AL	15	6
13	37892700	31300	1110	AL	21	5
12	37861400	25800	0830	cs	26	6
11	37835600	32000	1130	AL	32	6
10	37803600	28460	0845	cy	28	4
9	37775200	27700	0830	cy	42	5
8	37747500	29200	0820	cy	0	0
7	37718700	26500	714	nt	2	6
6	37691400	28000	830	nt	3	14
5	37663400	28600	916	nt	14	6
4	37634000	26400	905	tn	22	5
3	37602400	29300	0930	cs	25	6
2	37575100	27400	0805	cs	21	6
1	37551700	3	082	nt	37	6
	37520700				43	

Total 852,300

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WATER RESOURCES DEPT
SALEM OREGON

Well 9 Daily Production Report

November 2004

Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	used
31								
30	21968000	65100	40	127	946	TH	12	4
29	21902900	62400	49	129	521	MY	16	4
28	21840000	60000	44	129	756	TH	20	4
27	21780000	60000	44	129	830	TH	24	3
26	21720000	62600	40	129	905	TH	27	4
25	21657400	63000	49	124	84	TH	31	4
24	2159214000	60600	43	125	823	MY	35	4
23	21533800	63500	40	128	857	TH	39	4
22	21465900	58300	45	128	914	MY	43	3
21	21411600	61700	40	129	0930	CS	46	4
20	21349900	62600	45	129	0830	CS	0	5
19	21287300	60500	44	128	0840	CS	5	4
18	21226800	62100	40	128	0850	CS	9	4
17	21161700	60100	40	128	828	MY	13	5
16	21104600	62100	40	127	0500	CS	18	4
15	210412500	53100	39	124	555	MY	22	3
14	20989400	59200	39	127	1150	AL	25	5
13	20930200	21100	42	126	1100	AL	30	4
12	20859100	156100	40	126	0810	CS	34	4
11	20800000	69400	48	126	1113	AL	38	4
10	20733600	62100	45	126	537	MY	42	4
9	20671500	64700	47	126	0555	CS	46	4
8	20606500	66500	40	125	828	MY	1	4
7	20540300	60500	41	124	710	MY	5	4
6	20470500	65800	41	123	832	MY	9	4
5	20414000	109300	75	74	0530	CS	13	2
4	20304700	78100	79	75	900	TH	16	5
3	20226600	76600	48	112	0430	CS	0.1	4
2	20150000	54200	52	112	0830	CS	25	4
1	20075500	7700	56	111	527	TH		5
	19997900						34	

Total 1,970,100

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DEC 27 2004

WATER RESOURCES DEPT
SALEM, OREGON

Well 10 Daily Production Report

November 2004

Date	Meter Reading	Production	Time	Int.	Chlorine	used
30	6068000	68410	919	SM	46	4
29	5999590	70560	850	MY	1	5
28	5929030	66320	740	SM	6	3
27	5862710	65960	845	SM	9	3
26	5796750	70120	928	SM	12	3
25	5726630	67790	821	SM	15	4
24	5658840	66550	844	MY	19	3
23	5592890	71890	915	SM	22	4
22	5521400	66970	840	MY	26	4
21	5454430	73080	0940	CS	30	3
20	5381350	71680	0900	CS	33	4
19	5309670	69860	830	MY	37	3
18	5239810	69070	840	MY	40	3
17	5170740	69570	850	MY	43	3
16	5101170	68970	0845	CS	46	4
15	5032200	59900	900	MY	4	3
14	4972400	81130	1210	AL	7	4
13	4891270	65110	1200	AL	11	3
12	4826160	58940	0815	CS	14	3
11	4767220	64600	1135	AL	17	4
10	4692620	50760	900	MY	21	4
9	4641860	51420	0850	CS	25	3
8	4590240	58100	900	MY	28	4
7	4532140	52810	727	MY	32	3
6	4479630	64040	849	MY	35	4
5	4425090	57060	0830	CS	39	4
4	4368530	55660	0855	CS	43	3
3	4312870	60030	0910	CS	46	4
2	4252840	56460	0830	CS	2	5
1	4196380	61570	0900	CS	7	3
	4134810				10	

Total 1,933,190

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WATER RESOURCES DEPT
SALEM OREGON

Memorandum

To: FILE – G-6331
From: Ann Reece
Date: July 13, 2006
Re: September 2003 Water System Master Plan for City of
Dundee

A copy of the City's 2003 Water
System Master Plan is in Application
File G-12568

WATER SYSTEM MASTER PLAN

FOR

CITY OF DUNDEE

SEPTEMBER 2003



EXPIRES
6/30/04



EXPIRES: 12-31-03

Prepared by:

MURRAY, SMITH & ASSOCIATES, INC.

Engineers/Planners
121 SW Salmon, Suite 900
Portland, Oregon 97204

In association with:

GROUNDWATER SOLUTIONS, INC.

3758 SE Milwaukie Ave.
Portland, OR 97202

And:

FINANCIAL CONSULTING SOLUTIONS

GROUP, INC.

8642 154th Ave. NE
Redmond, WA 98052

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03-0597.106

JUL 13 2006

WATER RESOURCES DEPT
SALEM, OREGON

Table 3-2
Historical and Current Population Summary

Year	Population
1970	588
1980	1,223
1990	1,663
2000	2,598
2001	2,670
2002	2,770
2003	2,882

Table 3-3 summarizes estimates of the existing population and DUs within each pressure zone.

Table 3-3
Existing Population and Equivalent Dwelling Units Summary

Pressure Zone	Area (acres)	Equivalent Dwelling Units	Population
Upper Zone	23.4	45	125
Intermediate Zone	86.5	200	560
Lower Zone	374.3	785	2,197
Total	484.2	1,030	2,882

Population Forecast

As part of on-going population forecasting efforts, population projections have been developed and summarized in Table 3-4. In 1998 the City had approximately 270 acres of net buildable land available within the UGB. Using the established planning densities of 4 lots per acre for R1 zoning, 5 lots per acre for R2 zoning, 9 lots per acre for R3 zoning, 5 lots per acre as an assumed value for the agricultural area, and an occupancy rate of 3 people per lot, the saturation development population is projected to be 6,350.

Table 3-4
Saturation Development Population Projection Summary

Zoning Designation	Net Buildable Land (acres)	Estimated Population
1998 Baseline Population	-	2,383
R-1	39.1	469
R-2	5.0	75
R-3	5.9	159
Residential/Agricultural	217.6	3,264
Saturation Development		6,350

1 County's Transportation System Plan (TSP) projects a City population of approximately 9,127 in 2020 using a growth rate of 5.76%. The Oregon Office of Economic Development (OEA) has estimated Yamhill County's population to be 119,589 in the year 2020, the City's population being only 1.7% of Yamhill County's population or approximately 2,000. Taking into consideration historical growth rates, TSP growth estimates, OEA growth estimates and the available buildable land within the existing UGB, the City has adopted a population of 5,750 in the year 2020. This correlates to a growth rate of 4.05% between the 2002 census population and the adopted 2020 population, which will be used for population forecasts. Table 3-5 presents a population forecast summary.

**Table 3-5
Population Forecast Summary**

Year	Population
2002	2,770
2003	2,882
2008	3,515
2013	4,286
2018	5,228
2020	5,750
2023 (UGB Saturation Development)	6,350

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WATER RESOURCES DEPT
SALEM, OREGON

For system planning purposes, it is prudent to use the saturation development forecasting methodology. This methodology provides for the most economical development of water infrastructure improvements by assuming full occupancy at saturation development conditions allowing for actual development to progress without incurring costs for facility duplication.

Land Use and Water Requirements

Land use and water requirements estimates were developed from a review of historical water consumption data provided by the City and regional population forecasts specifically to reflect the water service area.

Water Use

"Water demand" refers to all the water requirements of the system including residential, commercial, municipal, institutional and industrial as well as unaccounted-for water. Demands are discussed in terms of gallons per unit of time such as gallons per day (gpd), million gallons per day (mgd) or gallons per minute (gpm). Demands are also related to population as gallons per capita per day (gpcd). The City of Dundee maintains records

of historical monthly water usage by customers. Table 3-6 summarizes this data for the years 1999 through 2002.

Existing Water Demands

Based on historical water usage patterns and historical population, the water service area's average daily demand has been approximately 0.4 million gallons per day (mgd) with a per capita consumption of approximately 145 gallons per capita per day (gpcd). Recent maximum daily water demand usage, has been as high as approximately 0.95 mgd in 2000. This is equivalent to a maximum per capita usage of approximately 366 gpcd.

**Table 3-6
Historical Water Use Summary**

Year	Water Service Area Population	Water Demand (mgd)	
		Average Day Demand	Maximum Day Demand
1999	2,478	0.41	0.91
2000	2,598	0.43	0.95
2001	2,670	0.38	0.69
2002	2,770	0.38	0.81

Water Demand Projections

Future water demand estimates were developed by projecting historical flows using the same relative growth as the population. As growth continues, both residential infill and zoning expansions are expected, resulting in an increased population density and an overall water demand. For the purposes of this plan, estimated average daily water usage is assumed to remain constant at approximately 145 gpcd.

Dundee's water demand patterns have varied greatly over the past few years. Historical maximum day per capita usage has been as low as 260 gpcd and as high as 360 gpcd. As conservation plays an increasing role in water usage patterns, it is anticipated that Dundee's maximum daily per capita usage can ultimately be maintained at approximately 320 gpcd, even in drought years.

For the purposes of this study, future maximum day per capita usage is estimated at approximately 320 gpcd. Estimated average and maximum day water demands are developed by multiplying the estimated per capita usage by the anticipated population for that year. To provide an estimate of peak hourly usage, a factor of 1.5 was applied to the estimated maximum day water demands. This is consistent with water demand patterns of

similar communities in the region. Population projections and anticipated water demands, in five-year increments through saturation development, are summarized in Table 3-7.

Table 3-7
Population Forecasts and
Estimated Water Demand Summary

Year	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
2003	2,882	0.42	0.92	1.38
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (UGB Saturation Development)	6,350	0.92	2.03	3.05

Water demand projections were further developed for each pressure zone based on the area served, population projections, and water use data. Table 3-8 presents a summary of these demands at saturation development.

Table 3-8
Pressure Zone Water Demand Summary
at Saturation Development

Pressure Zone	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
Upper Zone	195	0.03	0.06	0.09
Intermediate Zone	740	0.11	0.24	0.36
Lower Zone	5,415	0.78	1.73	2.60
All Zones	6,350	0.92	2.03	3.05

Summary

This section presents a discussion of existing and projected land uses within the water service area. Estimates of the current and future population are presented along with forecasts of water demands. Section 4 outlines the planning criteria that, in conjunction with the water demand estimates developed in Section 3, are used in the system analysis efforts.

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WATER RESOURCES DEPT
SALEM, OREGON
Water System Master Plan

Table D-1
City of Dundee
Water Rights Summary

City Source Name	Oregon Water Resources Department Source Name	Permit Rate (cfs) (gpm)	Pump Capacity (gpm)	Application Number	Permit Number	Certificate Number	Status or Recommendation	Priority Date	Point of Use Identification	Use	Township, Range & Section	1/16 Section
Spring	A Spring, Harvey Creek	0.5 (224)	0	9028	S5932	8781	Complete	6/20/23	11394	MU-A	3S.3W.27	NW NE
Spring	A Spring, Harvey Creek	0.5 (224)	0	9028	S5932	8781	Complete	6/20/23	11396	MU-P	3S.3W.27	SE NW
Spring	A Spring 1, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	3/25/29	11386	DO-P	3S.3W.27	NW NE
Spring	A Spring 1, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	"	"	IM-A	3S.3W.27	NW NE
Spring	A Spring 2, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	3/25/29	11387	DO-A	3S.3W.22	SW SE
Spring	A Spring 2, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	"	"	IM-A	3S.3W.22	SW SE
Mossy Spring	Mossy Spring, Harvey Creek	0.007 (3)	0	18173	S13880	14654	Complete	6/8/39	11395	DO-P	3S.3W.27	NW NE
Harvey Creek	Harvey Creek	0.25 (112)	0	22077	S17367	17145	Complete	11/7/46	11388	MU-P	3S.3W.22	SW SE
Willamette River	Willamette River	4.0 (1795)	0	58951	S44462	-	Extension application due 9/03	7/24/79	30162	MU-P	3S.2W.30	SW SW
Well 1 Watershed	Well 1 (meter)	0.22 (99)	53	G6331	G6017	-	Extension application due 9/03	4/22/74	30158	MU-P	3S.3W.27	NW NE
Well 2 Watershed	Well 3 (meter)	0.22 (99)	54	G6331	G6017	-	Extension application due 9/03	4/22/74	30160	MU-P	3S.3W.27	NW NE
Well 3 Deep Well	Supply Well (meter)	0.18 (81)	35	G1217	G1263	29157	Complete	11/28/58	29157	MU-P	3S.3W.26	SW NE
Well 4 River Well	Well 2 (meter)	0.26 (116)	0	G6331	G6017	-	Extension application due 9/03	4/22/74	30159	MU-P	3S.2W.30	SW SW
Old River Well	Well 4 (abandoned)	0.27 (121)	0	G6331	G6017	-	Extension application due 9/03	4/22/74	30161	MU-P	3S.3W.36	NE NE
Well 5 Pruitt	Well 5 (meter)	0.30 (135)	135	G10904	G10148	61759	Complete	3/24/83	11389	MU-P	3S.3W.26	NW SE
Well 6 Pruitt	Well 6 (meter)	0.30 (135)	135	G10904	G10148	61759	Complete	3/24/83	11390	MU-P	3S.3W.26	NW SE
Well 7 Watershed	Well 7 (meter)	0.33 (148)	150	G11866	G11058	-	Claim submitted 10/15/94	10/31/88	21048	MU-P	3S.3W.27	NW NE
Well 8 Watershed	Well 7A (meter)	0.334 (150)	140	G12568	G12685	-	Recommend submitting final proof survey	6/7/91	-	MU-P	3S.3W.27	NW NE
Well 9 1st Street	1st Street Well	0.334 (150)	145	G12568	G12685	-	Recommend submitting final proof survey	6/7/91	-	MU-P	3S.3W.25	SW NW
Well 10 Alder Street	Alder Street, Well (meter)	1.114 (500)	50	G12568	G12685	-	Extension application due 9/03	6/7/91	-	MU-P	3S.3W.35	NW NE
Well 11 Watershed	Well 11	0.5 (225)	-	G14066	G12736	-	Extension application due 9/03	5/19/95	-	MU-P	3S.3W.27	NW NE
Well 12 Watershed	Well 12 (Watershed)	0.5 (225)	-	G14070	G13035	-	Submit claim after construction	5/19/95	-	MU-P	3S.3W.27	NW NE

9.67 cfs 897 gpm
210 cfs
current use under G-2568
well 8 well 9 well 10 -
historically pumped 100 gpm
throttled to 50 gpm
= 100 gpm
well 8 well 9 well 10
31 + 32 + 11 + 11

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **19896**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: <u>City of Dundee</u>	APPLICATION <u>G6331</u>
BY: _____	PERMIT <u>6017</u>
	TRANSFER _____

CASH: ☐ CHECK: # 2422 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 200.00

0417 WRD MISC CASH ACCT

ADJUDICATIONS

\$ _____

PUBLICATIONS / MAPS

\$ _____

OTHER: (IDENTIFY) _____

\$ _____

OTHER: (IDENTIFY) _____

\$ _____

REDUCTION OF EXPENSE

CASH ACCT.

\$ _____

PCA AND OBJECT CLASS

VOUCHER #

0427 WRD OPERATING ACCT

MISCELLANEOUS

0407 COPY & TAPE FEES

\$ _____

0410 RESEARCH FEES

\$ _____

0408 MISC REVENUE: (IDENTIFY) Extension

\$ 100.00

(New) TC165 DEPOSIT LIAB. (IDENTIFY) _____

\$ _____

(Existing) TC168

WATER RIGHTS:

EXAM FEE

RECORD FEE

0201 SURFACE WATER

\$ _____

0202

\$ _____

0203 GROUND WATER

\$ _____

0204

\$ _____

0205 TRANSFER

\$ _____

0206

\$ _____

WELL CONSTRUCTION

EXAM FEE

LICENSE FEE

0218 WELL DRILL CONSTRUCTOR

\$ _____

0219

\$ _____

LANDOWNER'S PERMIT

0220

\$ _____

OTHER (IDENTIFY) _____

0437 WELL CONST. START FEE

0211 WELL CONST START FEE

\$ _____

CARD #

0210 MONITORING WELLS

\$ _____

CARD #

OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS

\$ _____

0467 HYDRO ACTIVITY

LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)

\$ _____

\$ _____

0231 HYDRO LICENSE FEE (FW/WRD)

\$ _____

\$ _____

HYDRO APPLICATION

\$ _____

RECEIPT # **19896**

DATED: 3-20-99 BY: D. Busfield

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

RECEIVED

MAR 20 1998

File No. G-6331

WATER RESOURCES DEPT.
SALEM, OREGON

APPLICATION FOR EXTENSION OF TIME

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Dundee

name

PO Box 220

Dundee

OR

97115

(503) 538-3922

address

city

state

zip

phone

record owner of permit No. G-6017, do hereby request that the time in which to:

☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1997, be extended to October 1, 2002, and/or the time in which to

☒ accomplish beneficial use of water to the full extent under the terms of the permit, which time, now expires on October 1, 1997, be extended to October 1, 2002.

I have accomplished the following described works and/or purchase and installation of equipment necessary to use of water under said permit.

(1) within past year - none - financing not currently available. City currently revising rate and SDC structure to raise necessary funds.

(2) prior to this past year installed new pumps, flow meters and depth measuring devices in two of the four wells - completed March, 1996. Pump tests submitted to Water Resources March 7, 1996.

(3) and have accomplished beneficial use of water to the extent of (if for irrigation, state how many acres have been irrigated) ± 120 gpm from two wells.

(4) unable to complete construction and/or application of water within the permit time limits because funding limitations partly due to February 1996 flood and surface water influence studies required by OHD.

George Lewis
signature

3/16/98
date

MAIL APPLICATION AND STATUTORY FEE OF \$100 FOR EACH PERMIT TO:
WATER RESOURCES DEPARTMENT
158 12TH ST NE
SALEM, OREGON 97310



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

August 4, 2009

City of Dundee
Attn: Rob Daykin, City Administrator
PO Box 220
Dundee, OR 97115

RE: Refund Due – Excess Extension Application Fees

File: Application S-58951 / Permit S-44462
Application G-6331 / Permit G-6017

Dear Mr. Daykin:

On March 20, 1998, the City of Dundee paid Water Resources Department \$200 for two applications for Extensions of Time, being a \$100 fee for Permit S-44462 and a \$100 fee for Permit G-6017.

On December 27, 2004, the City of Dundee paid an additional \$500, being a \$250 fee for Permit S-44462, and a \$250 fee for Permit G-6017 at the time that updated extension applications were filed for Permits S-44462 and G-6017. The updated extension materials received on December 27, 2004 were associated with the applications for Extensions of Time originally submitted on March 20, 1998. The Department, therefore, is refunding the City \$500.00.

If you have any further questions concerning this matter, please feel free to contact my by telephone at 503-986-0827.

Sincerely,

Ann Reece
Extensions
Water Rights and Adjudications Division

cc: File: Application S-58951
File: Application G-6331
Fiscal (Receipt: 71991)

TO SIGN UP FOR DIRECT DEPOSIT PAYMENT SERVICE AND RECEIVE CONVENIENT,
ELECTRONIC PAYMENTS, LOG-ON TO <http://egov.oregon.gov/DAS/SCD/SFMS/ach.shtml>
ON THE INTERNET. CLICK ON: FORMS AND BROCHURES THEN SELECT DIRECT
DEPOSIT (ACH) AUTHORIZATION FORM.

Mailed 8/28/09

(503) 986-0926 EXT.

FOLD ON PERFORATION LINE BELOW BEFORE DETACHING.

AUTHORIZED SIGNATURE

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **71991**

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: <u>City of Dundee</u>	APPLICATION <u>See below</u>
BY: _____	PERMIT _____
CASH: ☐ CHECK: # <u>9693</u> OTHER: (IDENTIFY) _____	TRANSFER _____
TOTAL REC'D <u>\$1,250.00</u>	

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES	RECEIVED	\$
OTHER: (IDENTIFY) _____	OVER THE COUNTER	\$
0243 I/S Lease _____	0244 Muni Water Mgmt. Plan _____	0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS	<u>\$589.51 - \$250.00</u>	G 14070 - \$250.00
0407 COPY & TAPE FEES	<u>\$633.11 - \$250.00</u>	\$
0410 RESEARCH FEES	<u>\$1256.88 - \$250.00</u>	\$
0408 MISC REVENUE: (IDENTIFY) _____		\$
TC162 DEPOSIT LIAB. (IDENTIFY) _____		\$
0240 EXTENSION OF TIME		\$1250.00
WATER RIGHTS:	EXAM FEE	RECORD FEE
0201 SURFACE WATER	\$	0202 \$
0203 GROUND WATER	\$	0204 \$
0205 TRANSFER	\$	
WELL CONSTRUCTION	EXAM FEE	LICENSE FEE
0218 WELL DRILL CONSTRUCTOR	\$	0219 \$
LANDOWNER'S PERMIT		0220 \$
OTHER (IDENTIFY) _____		

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE	\$	CARD # _____
0210 MONITORING WELLS	\$	CARD # _____
OTHER (IDENTIFY) _____		

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)		\$
0231 HYDRO LICENSE FEE (FW/WRD)		\$
HYDRO APPLICATION		\$

TREASURY OTHER / RDX

FUND _____	TITLE _____
OBJ. CODE _____	VENDOR # _____
DESCRIPTION _____	\$ _____

RECEIPT: **71991**

DATED: 12/21/04 BY: L. Albin

Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

Permit No. G-6017

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon

I, City of Dundee

(Name of applicant)

of Dundee, Oregon, county of Yamhill

(Postoffice Address)

state of Oregon, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation

1895 an Oregon corporation

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated Nos. 2 and 4 - Willamette River; No. 3 - unnamed creek

(Name of stream)

tributary of Willamette River

2. The amount of water which the applicant intends to apply to beneficial use is cubic feet per second or 2100 gallons per minute. No. 2 - 115 GPM; No. 3 - 100 GPM; No. 4 - 120 GPM

3. The use to which the water is to be applied is municipal water system for City

of Dundee

4. The well or other source is located XXXXX ft. XXXXX and XXXXX ft. XXXX from the corner of See Attached Sheet (for 2, 3 & 4) #1 Well is located

(N. or S.)

(E. or W.)

(Section or subdivision)

North 41° 22' 22" West 2066.80' from 1/4 corner common to sections 26 & 27 T3S, R3W Wm. Yamhill Co. Oregon

(If preferable, give distance and bearing to section corner)

(If there is more than one well, each must be described. Use separate sheet if necessary)

being within the 1/4 Northeast quarter of Sec. 27, Twp. 3 South, R. 3 West, W. M., in the county of Yamhill

5. The (Canal or pipe line) to be miles

in length, terminating in the of Sec. Twp.

(Smallest legal subdivision)

R. W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is City municipal system

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Valved #1 or direct flow into Spring intake when pumping

#1 - 8" Deep 100'

8. The development will consist of three additional wells to #1 having a diameter of No. 2 - 12" No. 4 12" & 16" No. 2 - 115 No. 4 - 200 No. 2 115' No. 3 - 8" inches and an estimated depth of No. 3 - 170 feet. It is estimated that No. 3 40' No. 4 200' feet of the well will require steel casing. Depth to water table is estimated No. 2 - 29 No. 3 - 0; No. 4 - 30 #1 - 104 GPM Artesian

(Kind)

(Feet)

CANAL SYSTEM OR PIPE LINE— SEE MAP OF CITY SYSTEM

9. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake in.; in size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use, ft. Is grade uniform? Estimated capacity, sec. ft.

41 - 100 GPM LINE SHAFT TURNING

10. If pumps are to be used, give size and type. No. 2 - 115 GPM deep well turbine; No. 3 - 100 GPM submersible; No. 4 - 120 GPM submersible

21 - 15 HP 440 3 PHASE ELECT

Give horsepower and type of motor or engine to be used. No. 2 - 20 HP 440 3 phase electric; No. 3 - 10 HP, 220 volt 3 phase electric; No. 4 - 20 HP 440 volt 3 phase electric

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

No. 2 - 400 feet from Willamette River 30 feet above; No. 3 is 35 feet from unnamed creek 3 feet above; No. 4 is 100 feet from Willamette River 35 feet above

12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands

Township N. or S.	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
3 South	3 West	26	All	640
3 South	3 West	25	All	640
3 South	3 West	27	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	NE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6

(If more space required, attach separate sheet)

(See Attached Sheet)

Character of soil

Kind of crops raised quasi municipal

APPLICATION FOR A PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON Permit No. G _____

4. Well No. 2 is located N 71° 00' 39" E 4377.26 feet
~~1517.84 feet North 89° 55' East and 66.8 feet South 41° 20' West~~ from the
 Southwest corner of Levi Hagey Donation Land Claim in Section 36, Township
 3 South, Range 3 West, being within the Southwest quarter of the Southwest
 quarter of Section 30, Township 3 South, Range 2 West.

Well No. 3 is located N 41° 45' 15" W 2126.22 feet
~~122.82 feet North 89° 55' West and 1680 feet~~
~~North 89° 55' East~~ from the quarter corner on the East line of Section 27,
 Township 3 South, Range 3 West, being within the Northwest quarter of the
 Northeast quarter of Section 27, Township 3 South, Range 3 West.

Well No. 4 is located N 78° 42' 54" E 3816.42 feet
~~1552.13 feet North 01° 02' 30" East and 9191.84~~
~~feet South 89° 55' East and 917.94 feet South 40° 20' West~~ from the South-
 west corner of Levi Hagey Donation Land Claim in Section 36, Township 3
 South, Range 3 West, being within the Northeast quarter of the Northeast
 quarter of Section 36, Township 3 South, Range 3 West.

Letter dated May 3 1974

Application No. G-6331
 Permit No. G 6017

12. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands.

TOWNSHIP N. or S.	RANGE E. or W. of WILLAMETTE MERIDIAN	SECTION	FORTY-ACRE TRACT	NUMBER ACRES TO BE IRRIGATED
3 South	3 West	35	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	34	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	34	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	35.2
3 South	3 West	36	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	8.8
3 South	2 West	31	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	5.8
3 South	2 West	30	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	NW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5

Application No. C-6331
Permit No. G 6017

MUNICIPAL SUPPLY—

13. To supply the city of Dundee, Oregon
in Yamhill county, having a present population of 820
and an estimated population of 1,500 in 1985.

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

14. Estimated cost of proposed works, \$..... 410,000.00.....

15. Construction work will begin on or before August 1, 1973.....

16. Construction work will be completed on or before August 1, 1974.....

17. The water will be completely applied to the proposed use on or before August 1, 1975.....

18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. G-1263, P-17367, P-5932, P-8978, P-13880.....

W. B. Bonting City Engineer
(Signature of applicant)

Remarks: _____

STATE OF OREGON, } ss.
County of Marion, }

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction and completion

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before April 12, 1974.

WITNESS my hand this 12th day of February 1974

RECEIVED
APR 22 1974
STATE ENGINEER
SALEM, OREGON

CHRIS L. WHEELER
By *Thos E Shook* STATE ENGINEER
Thomas E. Shook ASSISTANT

STATE OF OREGON, }
County of Marion, }

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.97 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from four wells, being 0.22 c.f.s. from #1, 0.26 c.f.s. from #2, 0.22 c.f.s. from #3, & 0.27 c.f.s. from #4.

The use to which this water is to be applied is for municipal purposes.

If for irrigation, this appropriation shall be limited to _____ of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed _____ acre feet per acre for each acre irrigated during the irrigation season of each year; _____

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is April 22, 1974

Actual construction work shall begin on or before November 3, 1976 and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1977

Complete application of the water to the proposed use shall be made on or before October 1, 1978

WITNESS my hand this 3rd day of November, 1975

James E. Sepp
Water Resources Director

F.H.
B

Application No. G- C 331
Permit No. G- G 6017

PERMIT

TO APPROPRIATE THE GROUND
WATERS OF THE STATE
OF OREGON

This instrument was first received in the
office of the State Engineer at Salem, Oregon,
on the 26 day of October,
1973, at 3:30 o'clock P. M.

Returned to applicant:

Approved:

Recorded in book No. _____ of G 6017
Ground Water Permits on page _____

STATE ENGINEER

Drainage Basin No. 2 page 134

for #302

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **71991**

INVOICE # _____

RECEIVED FROM: <u>City of Dundee</u>	APPLICATION: <u>See below</u>
BY: _____	PERMIT: _____
CASH: ☐ CHECK: # <u>9693</u> OTHER: (IDENTIFY) _____	TRANSFER: _____
	TOTAL REC'D: <u>\$1,250.00</u>

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES	RECEIVED	\$
OTHER: (IDENTIFY) _____	OVER THE COUNTER	\$
0243 I/S Lease _____	0244 Muni Water Mgmt. Plan _____	0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS	<u>558951 - \$250.00</u>	<u>G 14070 - \$250.00</u>
0407 COPY & TAPE FEES	<u>G 6331 - \$250.00</u>	\$
0410 RESEARCH FEES	<u>G 12568 - \$250.00</u>	\$
0408 MISC REVENUE: (IDENTIFY) _____	<u>G 14066 - \$250.00</u>	\$
TC162 DEPOSIT LIAB. (IDENTIFY) _____		\$
0240 EXTENSION OF TIME		<u>\$1250.00</u>
WATER RIGHTS:	EXAM FEE	RECORD FEE
0201 SURFACE WATER	\$	0202 \$
0203 GROUND WATER	\$	0204 \$
0205 TRANSFER	\$	
WELL CONSTRUCTION	EXAM FEE	LICENSE FEE
0218 WELL DRILL CONSTRUCTOR	\$	0219 \$
LANDOWNER'S PERMIT		0220 \$
OTHER (IDENTIFY) _____		

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE	\$	CARD # _____
0210 MONITORING WELLS	\$	CARD # _____
OTHER (IDENTIFY) _____		

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)		\$
0231 HYDRO LICENSE FEE (FW/WRD)		\$
HYDRO APPLICATION		\$

TREASURY OTHER / RDX

FUND _____	TITLE _____
OBJ. CODE _____	VENDOR # _____
DESCRIPTION _____	\$ _____

RECEIPT: **71991**

DATED: 12/21/04 BY: L. Albin

Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

Application No.

Permit No.

STATE OF OREGON WATER RESOURCES DEPARTMENT

RECEIVED

Application for Permit to Appropriate Surface Water

OCT - 8 1979

WATER RESOURCES DEPT
SALEM, OREGON

I, City of Dundee

(Name of Applicant)

of Box 201

(Mailing Address)

Dundee

(City)

State of Oregon

97115

(Zip Code)

Phone No. 538-3922

do hereby

make application for a permit to appropriate the following described waters of the State of Oregon:

1. The source of the proposed appropriation is The Willamette River

....., a tributary of The Columbia River

2. The point of diversion is to be located 50 ft. North and 770 ft. East

(N. or S.)

(E. or W.)

from the Southwest corner of Section 30, Township 3 South, Range 2 West

(Public Land Survey Corner)

(If there is more than one point of diversion, each must be described)

..... being within the SW 1/4 of the SW 1/4 of

Sec. 30 Tp. 3 S R. 2 W W. M., in the county of Yamhill

(N. or S.)

(E. or W.)

3. Location of area to be irrigated, or place of use if other than irrigation.

Township	Range	Section	List 1/4 1/4 of Section	List use and/or number of acres to be irrigated
3S	3W	26	NE 1/4	
3S	3W	26	SE 1/4 of NW 1/4	
3S	3W	26	SE 1/4	
3S	3W	26	E 1/2 of SW 1/4	
3S	3W	35	N 1/2 of NE 1/4	
3S	3W	25	NW 1/4	
3S	3W	25	SW 1/4	
3S	3W	25	S 1/2 of SE 1/4	
3S	3W	36	N 1/2 of NW 1/4	
3S	3W	36	SE 1/4 of NW 1/4	

Continued. . .

3. Location of area to be irrigated, or place of use if other than irrigation.

[illegible]

4. The amount of water which the applicant intends to apply to beneficial use is 4.0
cubic feet per second.....
(If water is to be used from more than one source, give quantity from each)

5. The use to which the water is to be applied isMunicipal.....

6. DESCRIPTION OF WORKS

Include dimensions and type of construction of diversion dam and headgate, length and dimensions of supply ditch or pipeline, size and type of pump and motor, type of irrigation system to adequately describe the proposed distribution system.

The City of Dundee is anticipating upgrading their municipal water
system to meet demands of the growing population as the present well system
will not meet the growing demand. An intake to obtain water from the Willamette
River is planned. The existing transmission line to wells #1 & #2 will be
extended to the proposed point of diversion.

If for domestic use state number of families to be supplied

7. Construction work will begin on or before September 1, 1980

8. Construction work will be completed on or before December 1, 1981

9. The water will be completely applied to the proposed use on or before November 1, 1981

Application No.

Permit No.

Remarks:

For City of Dundee
Signature of Applicant
[Signature]
Westech Eng.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

In order to retain its priority, this application must be returned to the Water Resources Director with corrections 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

day of 19, at o'clock

M.

Application No.

Permit No.

Permit to appropriate the Public Waters of the State of Oregon

This is to certify that I have examined the foregoing application and do hereby grant the same SUBJECT TO EXISTING RIGHTS INCLUDING THE EXISTING FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from

The use to which this water is to be applied is.....

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The priority date of this permit is.....

Actual construction work shall begin on or before..... and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19.....

Complete application of the water to the proposed use shall be made on or before October 1, 19.....

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

Lisa Brown
WaterWatch of Oregon
213 SW Ash Street, Suite 208
Portland, OR 97204

November 12, 2007

Dwight French
Water Resources Department
725 Summer Street N.E., Suite A
Salem, OR 97301-1271

**RE: Request for Notification of Proposed Municipal Extension Fishery Resource
Protection Conditions (Willamette Group + McKenzie)**

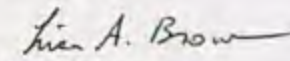
Dear Mr. French:

I am writing to request notification of any proposed fishery resource protection conditions for the municipal permit extension applications listed below. This request is made pursuant to OAR 690-315-0080(f) ("Upon receiving ODFW's written advice, the Department shall notify the applicant and any persons that requested notification of any fishery resource protection conditions that may be proposed in the proposed final order under OAR 690-315-0050").

- Done* ✓
1. Application No: S-48416/Permit No. S-35819, Adair Village (Public Notice 3/21/06)
 2. Application No: S-47453/Permit No. S-35551, Corvallis (Public Notice 3/21/06)
 3. Application No: G-6331/Permit No. G-6017, Dundee (Public Notice 3/21/06) *Advice sent 4-8-09*
 4. Application No: S-58951/Permit No. S-44462, Dundee (Public Notice 3/21/06) *Conditions sent 5-6-09*
 5. Application No: S-70056/Permit No. S-52885, Millersburg (Public Notice 3/21/06)
 6. Application No: S-55010/Permit No. S-45565, Salem (Public Notice 3/21/06)
 7. Application No: S-28213/Permit No. S-22200, Springfield U.B. (Public Notice 3/21/06)
 8. Application No: S-55500/Permit No. S-43246, Lake Oswego (Public Notice 3/21/06)
 9. Application No: S-35037/Permit No. S-27441, Eugene (Public Notice 9/25/07)

Please do not hesitate to contact me at 503.295.4039 x2 or lisa@waterwatch.org if there are any questions regarding this request.

Sincerely,


Lisa Brown

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NOV 15 2007

WATER RESOURCES DEPT
SALEM, OREGON



Oregon

Theodore R. Kulengoski, 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

May 6, 2009

WaterWatch of Oregon, Inc.
Attn: Lisa Brown
213 SW Ash, Suite 208
Portland, OR 97204

RE: Request for Notification of Proposed Municipal Extension Fishery Resource
Protection Conditions

Application S-58951 (Permit S-44462) City of Dundee
Application G-6331 (Permit G-6017) City of Dundee

The purpose of this letter is to provide you with notification as per your request pursuant to
OAR 690-315-0080(2)(f) of any fishery resource protection conditions that may be proposed in
the proposed final order under OAR 690-315-0050.

Sincerely,

Scott Kudlemyer
Water Rights Specialist

Enclosures

Cc: Application File S-58951
Application File G-6331

**Willamette River – Proposed Fish Persistence Conditions
for Extension of Time Proposed Final Order (PFO)
for Application G-6331 (Permit G-6017)
City of Dundee**

1. Conditions to Maintain the Persistence of Listed Fish

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Willamette River as recommended by ODFW are in Table 1, below, and flows are to be measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent).

Table 1

MINIMUM FISH FLOW NEEDS ON THE WILLAMETTE RIVER MEASURED AT USGS GAGE 14191000 SALEM, OREGON	
Month	Cubic Feet per Second
July 1– October 31	5,630
November 1 – March 31	6,000
April 1 – April 15	15,000
April 16 –April 30	17,000
May 1 – May 31	15,000
June 1 – 15	12,600
June 16 – 30	8,500

B. Water Use Reductions

The maximum total amount of the undeveloped portion of Permit G-6017 that impacts Willamette River surface water and legally can be diverted shall be reduced (1) in proportion to the amount by which the flows shown in Table 2 are not met based on a seven day rolling average of mean daily flows measured on the Willamette River at Salem (USGS Gage Number 14191000, or its equivalent) and (2) by a Consumptive Use Percentage, when applicable, as per Item 1.D., below. The overall reduction in the amount of the undeveloped portion of the permit that impacts Willamette River surface water and legally can be diverted will not exceed 20%.

C. Reduction Limited by Percentage of the Undeveloped Portion that Impacts Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition, 72.6% of the undeveloped portion under this permit impacts Willamette River surface water.

D. Reduction Limited by Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Dundee has not identified any Consumptive Use Percentages based on the return of flows to the Willamette River through effluent discharge. Thus, at this time the City may not use Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition.

b. Use of Consumptive Use Percentages

Use of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may begin after the issuance of this Final Order for an extension of time.

First time use of Consumptive Use Percentages is contingent upon the City (1) showing that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving concurrence of the proposed Consumptive Use Percentages from the Water Resources Director.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages.

Use of Consumptive Use Percentages is valid only up to 10 years from the date of concurrence by the Water Resources Director as evidenced by the record.

c. Continued Use of Consumptive Use Percentages by Updates

Continuing use of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-6017 that can be diverted as a result of this fish persistence condition may be obtained for subsequent intervals of time, not to exceed 10 years each. Continuing use of Consumptive Use Percentages is contingent upon the city submitting updated Consumptive Use Percentages and receiving concurrence of these updated Consumptive Use Percentages by the Water Resources Director.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

Continued use of Consumptive Use Percentages is valid only up to 10 years from the date of concurrence by the Water Resources Director as evidenced by the record; however, updates may be submitted before the end of a 10 year approval period.

E. Examples

Example 1:

On July 15, the last seven mean daily flows were 7000, 6500, 6000, 5500, 5250, 5000 and 4750 cfs. The seven day rolling average is 5714 cfs. The maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 5,630 cfs target flow for July 15.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 5011 cfs, the target flows would be missed by 11%.

$$(100 - [(5011 / 5630) \times 100\%]) = 11\%$$

Step 2: Assuming use of the Consumptive Use Percentage is 78.7% during the month of July and the use of this percentage is authorized, then the 11% reduction based on missed target flows would be further limited to 8.7%.

$$([11\% \times 78.7\%] / 100) = 8.7\%$$

Step 3: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 10.0 cfs and 72.6 % of the undeveloped portion impacts Willamette River surface water, then the undeveloped portion of the permit with surface water impacts would be 7.3 cfs.

$$(10.0 \text{ cfs} \times [72.6\% / 100]) = 7.3 \text{ cfs}$$

Step 4: In this example, the reduction to the undeveloped portion of the permit with surface water impacts which is due to the missed target flow percentage adjusted by the consumptive use percentage would be 0.63 cfs

$$(7.3 \text{ cfs} \times [8.7\% / 100]) = 0.63 \text{ cfs}$$

Step 5: This 0.63 cfs reduction is only 8.6% of 7.3 cfs (the undeveloped portion with surface water impacts), which does not exceed the 20% overall maximum reduction. (In this example, the 20% maximum overall reduction to the maximum total amount of the undeveloped portion of the permit that legally can be diverted would be 1.46 cfs).

$$[(0.63 / 7.3) \times 100\%] = 8.6\%$$

Step 6: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 9.37 cfs

$$(10.0 \text{ cfs} - .63 \text{ cfs}) = 9.37 \text{ cfs}$$

F. Division 86 WMCP Updates under OAR 690-086-0140(3) and OAR 690-086-0170(7)

Updates to any WMCP approved after the date of the Final Order approving this extension of time must include (1) a description of these conditions to maintain the persistence of listed fish within the Municipal Water Supplier element under OAR 690-086-0140(3), and (2) if applicable, a discussion of these conditions to maintain the persistence of listed fish within the Municipal Water Supply element under OAR 690-086-0170(7).



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

April 8, 2009

WaterWatch of Oregon, Inc.
Attn: Lisa Brown
213 SW Ash, Suite 208
Portland, OR 97204

RE: Request for Notification of Proposed Municipal Extension Fishery Resource
Protection Conditions (Willamette Group)

Application S-48146 (Permit S-35819) City of Adair Village
Application S-47453 (Permit S-35551) City of Corvallis
Application S-55010 (Permit S-45565) City of Salem
Application S-58951 (Permit S-44462) City of Dundee
Application G-6331 (Permit G-6017) City of Dundee

The purpose of this letter is to provide you with notification as per your request pursuant to OAR 690-315-0080(2)(f) of Oregon Department of Fish and Wildlife's written advice on the above referenced municipal permit extension applications and any fishery resource protection conditions that may be proposed in the proposed final order under OAR 690-315-0050.

Sincerely,

A handwritten signature in black ink, appearing to be "S. Kudlemyer", written over a horizontal line.

Scott Kudlemyer
Water Rights Specialist

Enclosures

Cc: Application File S-48146
Application File S-47453
Application File S-55010
Application File S-58951
Application File **G-6331**

Westech Engineering, Inc.

CONSULTING ENGINEERS AND PLANNERS



WATER SYSTEM EVALUATION
AND MASTER PLAN

for

DUNDEE, OREGON

November, 1980

JO 441-W-5

RECEIVED

FEB 25 1983

**WATER RESOURCES DEPT.
SALEM, OREGON**

WATER SYSTEM EVALUATION
AND MASTER PLAN

for

DUNDEE, OREGON

November, 1980

JO 441-W-5

Dundee, Oregon

WATER SYSTEM EVALUATION
AND
MASTER PLAN

Table of Contents

	<u>Page</u>
Forward	
Chapter 1 Introduction	1-1
Chapter 2 Conclusions and Recommendations	2-1
Chapter 3 Planning	3-1
Chapter 4 Water Use	4-1
Chapter 5 Sources of Supply	5-1
Chapter 6 Distribution and Storage	6-1
Chapter 7 Financing	7-1
Chapter 8 System Operation	8-1

Appendices

- A Insurance Services Office Report
- B Well Data
- C Dundee Water Rate Ordinance

FOREWARD

USING THIS REPORT

Because this report is intended to be used by many people whose needs for detailed information differ widely, an organizational scheme has been chosen to meet those needs. The report itself and each chapter in the report moves from the general to the specific. Each chapter begins with a summary or overview section which briefly describes the content and main conclusions of the chapter. Thus, readers may gain a good general understanding of the chapter by reading only the summary section. If the reader wishes to consider the subject in greater detail, further reading into the chapter would be necessary. If not, the reader may simply move on to the next chapter.

CHAPTER 1

INTRODUCTION

A. BACKGROUND AND AUTHORIZATION

In May, 1977, the City of Dundee adopted a comprehensive plan prepared by CH2M Hill. The comprehensive plan briefly discusses the municipal water system but does not explore it in depth or detail.

Dundee is projected to grow considerably by the year 2000. In order to meet the water demands this growth will place on the existing facilities, the city felt it should have a master plan to assist it in planning for future growth.

These factors led to the decision by the City Council in May, 1980, to authorize the preparation of a water system evaluation and master plan for the city.

B. PURPOSE AND SCOPE

The Dundee water system seeks to provide its customers with adequate quantities of safe, potable water for all their needs. The purpose of this report is to explore and answer as specifically as possible some of the major questions on how best to provide the "safe, potable water" now and in the future.

Some of the questions to be answered are:

1. What are the customers' needs for water for such uses as...
 - Fire protection?
 - Drinking, cooking, bathing and household uses?
 - Industrial uses?
 - Irrigation?
 - Public uses such as parks, schools, etc.?
2. What is the city's present water system capable of producing?
3. What is the quality of the water presently produced?
4. What amount of additional supply is needed to meet the needs of the future population?
5. What improvements or additions need to be made to the distribution and storage capacity of the system?
6. What will these improvements cost?
7. When should they be made?

8. How can these improvements be paid for?
9. How can the costs of the system be shared equitably among the users and beneficiaries of the system?
10. What policies and operating practices should be followed to insure the realization of the adopted plan?

These and other related questions are raised and answered in this report.

CHAPTER 2

CONCLUSIONS AND RECOMMENDATIONS

A. CONCLUSIONS

1. By the year 2000, some 885 acres are expected to be developed. Commercial and industrial land uses are expected to increase and this, combined with residential development, is likely to have a significant effect on water needs.
2. A recent population projection for Dundee has been made by the Mid-Willamette Valley Council of Governments. The current projection predicts 3000 people by the year 2000.
3. Future water demands are estimated to include allowance for industrial growth per city comprehensive plan, but no provision is made for industries with high water use. By the year 2000, the following demands are anticipated:

Average day demand	0.486 million gallons per day (MGD)
Maximum day demand	1.266 MGD
Peak hour demand	2.436 MGD
Fire flow	3500 gpd for three hours

4. Fire demands are projected to the year 2000 on the basis of the most recent Insurance Services Office flow tests. Correcting deficiencies in arterial main capacity and hydrant distribution are cited by ISO as high priorities in any improvement plan for the Dundee water system.
5. The city has over the years obtained its water supply from wells. Presently six different wells, plus springs, are used and all sources combined are currently capable of producing approximately .792 million gallons per day. The 1980 maximum day demand was .567 MGD.
6. Projected water system demands indicate an additional water source will be required by 1985-87. Plans should be initiated earlier to assure the water supply will be completed by 1985. Estimated cost for a new well is \$96,200.

Although the Willamette River could provide additional water, costs for required treatment equipment would approach \$500,000-\$700,000. Water rights cannot be guaranteed year around for the required water. In addition, the costs of operating a water treatment plant are much higher than for operating a well.

7. The existing transmission, storage, and distribution system will be able to provide system needs (1981-85) including fire flows after the completion of Priority A improvements.

8. Priority A (1981-85) improvements are designed to satisfy fire flow requirements to major residential and commercial areas of the city. Included are additional hydrants that will provide adequate fire coverage for all areas.

Priority A improvements are estimated to cost \$94,450.
9. Priority B (1981-2000) improvements are designed to accommodate projected commercial/residential growth as it occurs. Priority B improvements are estimated to cost \$460,125. With proper control and planning, many Priority B improvements may be built without direct costs to the city.
10. The cost of making system improvements can be financed several ways. The majority of Priority A improvements benefit the entire city and funding by general obligation bonding is suggested. A \$191,000 bond issue with 40 year maturities at an estimated five percent interest sold to Farmers Home Administration is suggested. Debt repayment would average about \$11,052 per year or, if paid by taxation, about \$.50 per \$1,000 assessed valuation initially. An increase in water rates from \$4.00 minimum to \$5.00 would need to be implemented for future system operation.
11. In order to forecast any potential problems in the existing wells, accurate data should be kept of pump operating hours, gallons pumped, well static water levels and pumping drawdown levels. These records should be reviewed by the city engineer annually.

B. RECOMMENDATIONS

1. Review, discuss, modify if necessary, and adopt this report.
2. Apply to Farmers Home Administration for loan and grant funding for the suggested improvements.
3. Take steps to obtain voter authorization to sell general obligation bonds after FmHA has reviewed the Dundee application and made a commitment to buy the Dundee bonds, and/or make a grant offer.
4. Discuss and adopt a main extension/replacement ordinance with the general provisions outlined in Chapter 8.
5. Undertake the suggested operation and maintenance improvements, especially the records collection and analysis for the wells.

CHAPTER 3

PLANNING

A. SUMMARY

The study area adopted for this report is defined by the Dundee urban growth boundary. Land use, population, and water needs are forecast to the year 2000 for planning purposes.

By the year 2000, some 885 acres are expected to be developed. Commercial and industrial land uses are expected to increase and this, combined with residential development, is likely to have a significant effect on water needs.

A recent population projection for Dundee has been made by the Mid-Willamette Valley Council of Governments. The current projection predicts 3000 people by the year 2000.

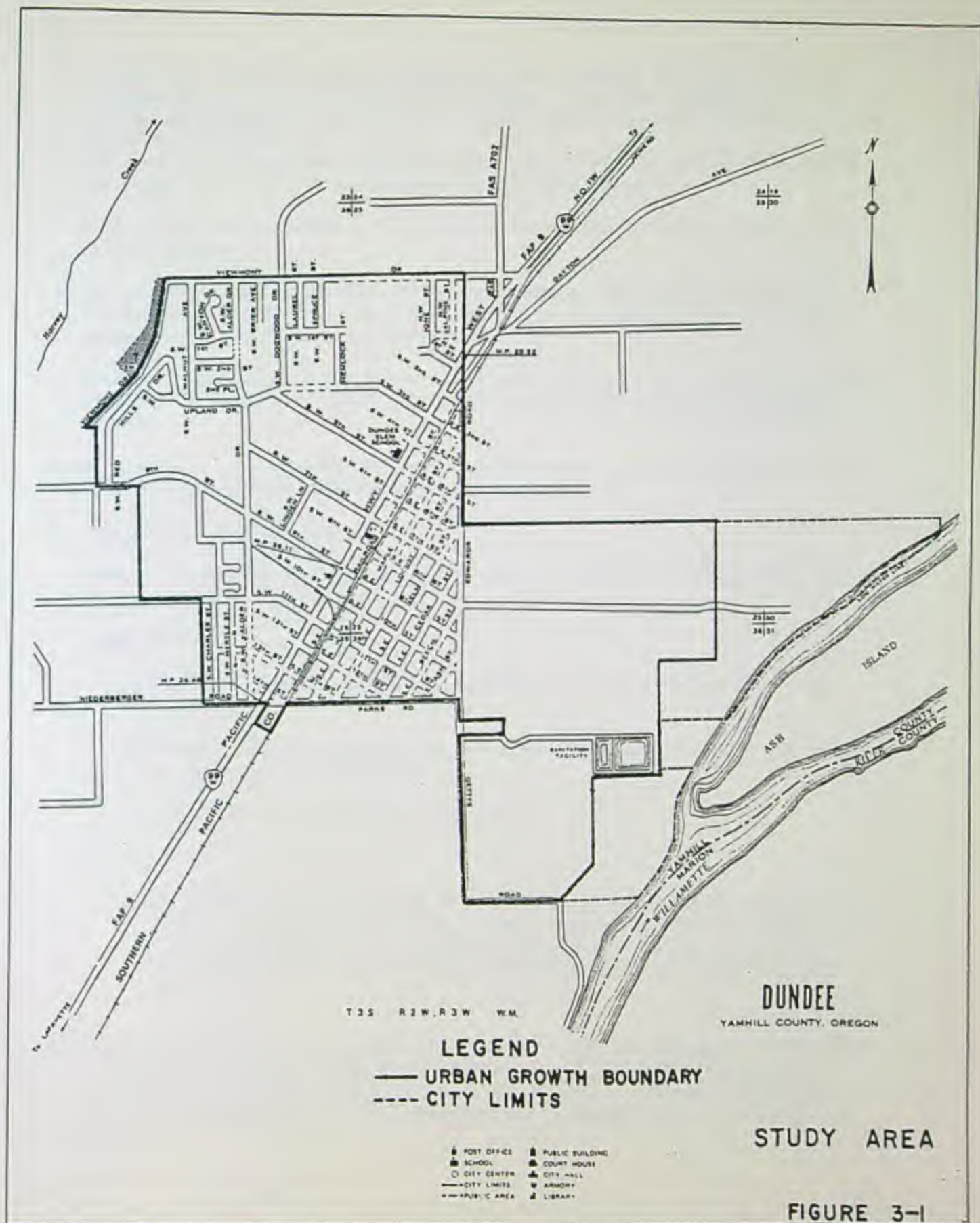
The data in this chapter is largely based on the city's adopted comprehensive plan and provides the basis for the water needs projected in Chapter 4.

B. LAND USE PLAN AND POLICIES

In May of 1977, Dundee adopted a comprehensive plan for the urban growth areas shown on Fig. 3-1. The plan, prepared by CH2M-Hill, a consulting firm, contains useful information on a wide range of subjects. This report draws freely on the contents of the city's comprehensive plan for both background data and policy guidance.

Some of the plans, issues, and findings of fact will bear on the water system plan which follows herein. They are:

- Dundee's population will increase to 3,000 persons by the year 2000.
- Dundee is primarily a bedroom community, and relies more on outside employment than on the local nut processing industry and commercial development as an economic base.
- Industry within the planning area is not diversified. There are no unique considerations in Dundee that would tend to attract additional light industrial or commercial development.
- An urban growth boundary encompassing 885 acres is planned to accommodate projected land area needs for desired increases of residential, commercial, and industrial activity.



- The lack of adequate sewage capacity and water supply will effectively limit growth for the next two to five years. When improvements are completed, development could be fairly rapid. (Note: Sewage treatment facility upgrading completed fall, 1979.)
- The area within the urban growth boundary will require extension of sewage and water facilities to accommodate future development.
- Water supply and storage facilities are inadequate to meet projected population demands.
- The priority area to develop for new residential use is the area east of the western part of the city. The eastern part of the city will be developed when public need is established.
- A capital improvements program will be developed to insure the timely construction of necessary public services and facilities to meet projected demands.

Among the goals, objectives, and policies set forth in the comprehensive plan are the following which relate to the water system:

1. Residential Development

GOAL: To provide sufficient land to meet the needs for future urban expansion.

OBJECTIVES:

- 1) Define a growth policy, and identify areas of possible future expansion.
- 2) Project population growth to the year 2000, and identify land needs to support that population.
- 3) Establish an urban growth boundary.

POLICY:

- 3) Developments will coincide with the provision of public streets, water, and sewage facilities. These facilities shall be capable of adequately serving all intervening properties as well as the proposed development and will be designed to meet the city or county standards.

2. General Commercial: The general commercial land use category is indicated along parts of Highway 99W to accommodate a range of retail and service commercial uses. About ten acres of land currently designated for residential development will be "reserved" for probable future commercial expansion.

POLICY:

- 1) Further strip commercial development along 99W will be limited as much as possible.
 - 3) Development will coincide with the provision of adequate public streets, water, and sewage facilities. Sidewalks will be provided in all new commercial developments.
 - 4) Existing commercial establishments located on areas the plan designated as non-commercial will be permitted to continue but will not be permitted to expand outside their present site.
3. Light Industrial: Light industrial uses in Dundee are largely confined to processing nuts. The Westnut plant lies adjacent to US 99W at the south end of town. The plan does not foresee a major increase in light industrial use within the next ten years, and foresees no heavy industrial uses. However, a provision is made for further industrial expansion should it be desired. About 20 acres of currently planned residential land will be held in "reserve" for potential industrial development.

POLICY AND STANDARDS:

- 3) The industrial area around the old Westnut plant will not be permitted to expand.
 - 4) The Nut World warehouse adjacent to the railroad tracks is appropriately located and will be permitted to remain or expand.
4. Public Facilities and Services

GOAL: Provide orderly and efficient public services and facilities to adequately meet the needs of Dundee's citizens.

OBJECTIVES:

- 1) Protect the general health of local residents by providing adequate sanitary sewage, sewage treatment, sewage waste disposal, and water facilities.
- 2) Insure the safety and health of Dundee's citizens through adequate police and fire protection.

POLICIES:

- 5) The city will provide adequate water supply and storage facilities to meet the projected population needs.

IMPLEMENTATION:

- 2) The city will attempt to develop a capital improvement program to finance storm drainage, sewerage, and other public works improvement projects.

These policies, along with the adopted land use plan provide the basic framework within which improvements and expansions to the water system can be made.

5. Population Trends: In a town as small and rapidly growing as Dundee, reliable population forecasts are almost impossible to make. Nevertheless, forecasts must be made in order to provide a basis for decisions on zoning, utility installations, annexations, schools, etc.

In 1968 and 1969, the Bureau of Governmental Research and Services made projections for Dundee which assume an annual average increase of six to seven percent between 1966 and 1985. In the 1973 sewer study, the Willamette Valley Council of Governments projected an average annual increase of eight percent between 1974 and 1990.

The actual annual growth rate since 1960 averaged about 8 1/2 percent and resulted partly from annexations. Since 1966, when the first annexation occurred, approximately 530 acres have been annexed to the city, the largest portion of which has been on the east side of town near the Willamette River.

It is also necessary to incorporate a vacancy factor in determining future land needs. In order to prevent land costs from escalating too rapidly, and to provide open space and other amenities, the city considered several vacancy factors. If a 30 percent vacancy factor is used, then the current city limits could support about 2940 people, which corresponds with the maximum projected growth expected by the city in the year 2000.

The population information shown on Tables 3-1, 3-2 and 3-3, and Figure 3-2 comes from the Dundee comprehensive plan. The information and projections are still considered valid, although some adjustments might be expected after the completion of the 1980 census.

Table 3-1
PROJECTION OF LAND AREA NEEDS

Land Use	Forecasting Years				
	1980	1985	1990	1995	2000
Residential	118	195	273	350	428
Commercial	6	8	11	14	16
Industrial	9	15	20	26	32
Public and semi-public	9	9	9	9	9
Streets and rights-of-way	84	120	157	193	230
Areas not buildable	170	170	170	170	170
TOTAL	396	517	640	662	885

Table 3-2
HISTORICAL POPULATION GROWTH
Dundee, Yamhill County

	Year				
	1940	1950	1960	1970	1975
Dundee	209	308	318	588	985
Average annual increase (percent)	---	9.9	0.3	8.4	13.5

Table 3-3
PROJECTED POPULATION GROWTH

Year	1980	1985	1990	1995	2000
Population	1150	1700	2100	2500	3000

Choosing a "reasonable" time span for which utility systems should be designed is a somewhat arbitrary decision. If the design life is short, the public is faced with continuing demands for increasing system capabilities. For systems that do not lend themselves to easy or economical gradual expansion, short design periods lead to excess expenditures of capital. On the other hand, facilities designed for many years in the future can provide capabilities which may never be needed if predicted population does not occur. Such facilities place a substantial economic burden on the present population and may become obsolete before fully used.

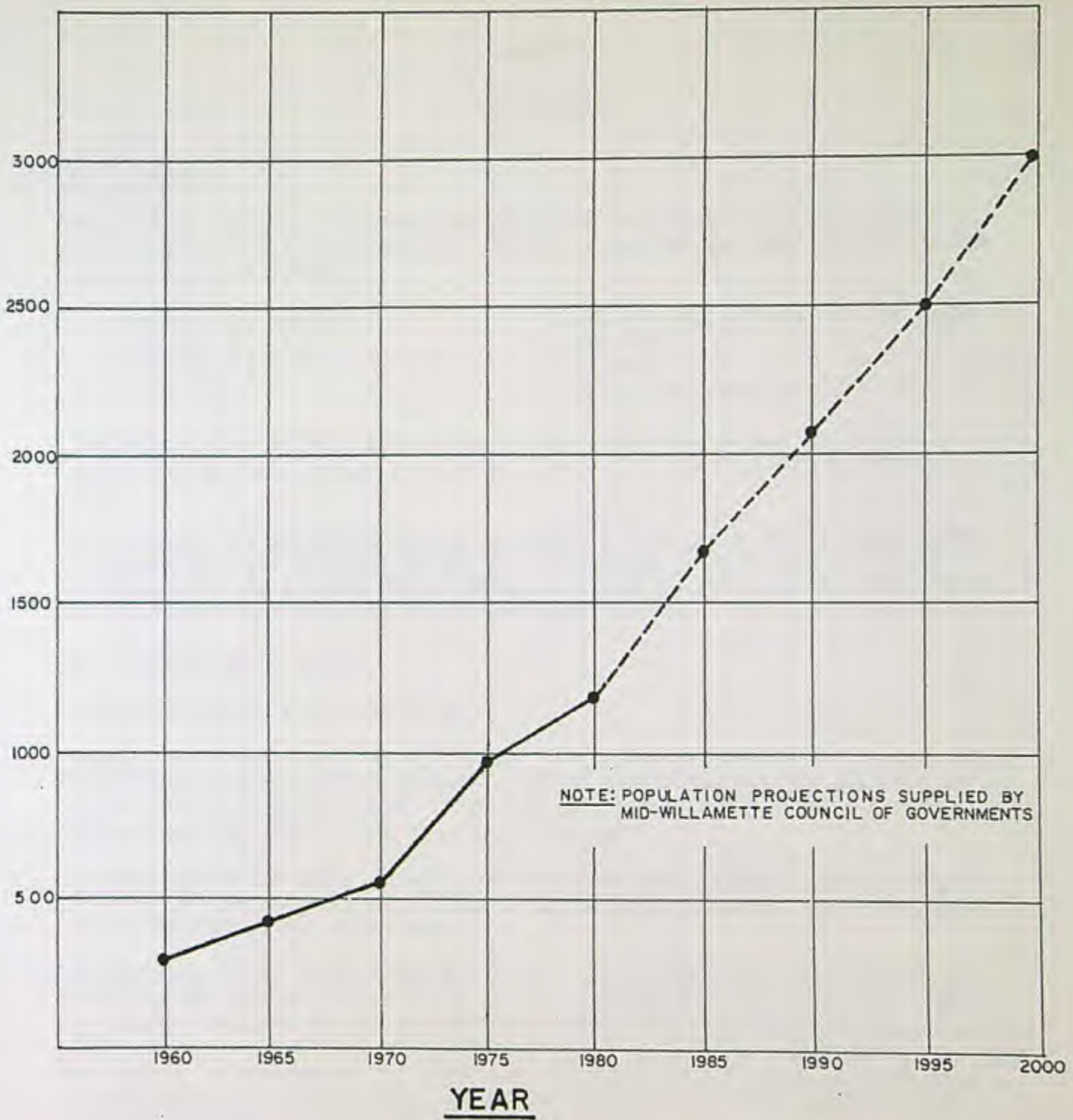
As we project future water needs, we should recognize that predictions are subject to inaccuracies for many reasons. The farther into the future we predict, the greater the inaccuracies are likely to be.

This report will plan for needs up to 20 years in the future.

C. STUDY AREA

For simplicity, the study area is taken to be identical to the adopted urban growth boundary shown on Figure 3-1. This boundary circumscribes 885 acres. By 1985, an estimated 517 acres will be developed. (See Table 3-1)

When and where development will take place cannot be accurately predicted. Projected land uses will serve to guide planned water system development.



DUNDEE POPULATION
RECORD OF GROWTH AND PROJECTION

FIGURE 3-2

CHAPTER 4

WATER USE

A. SUMMARY

Future water demands in Dundee are estimated in this chapter and provide the basic data for system improvement planning. By the year 2000, the following demands are anticipated:

Average day demand	0.486 million gallons per day (MGD)
Maximum day demand	1.266 MGD
Peak hour demand	2.436 MGD
Fire flow	3500 gpd for three hours

These estimates include some allowance for industrial growth per the City comprehensive plan, but no provision is made for industry with high water use.

Fire demands are projected to the year 2000 on the basis of the most recent Insurance Services Office flow tests. Correcting deficiencies in arterial main capacity and hydrant distribution are cited by ISO as high priorities in any improvement plan for the Dundee water system.

B. DEFINITION OF TERMS

Some useful water system terms are:

Demand: In this report, we will speak of residential demands, fire demands or fire flows, and industrial demands. Demand equals consumption plus system losses, and will be expressed in gallons per minute (gpm) or millions of gallons per day (MGD). One MGD equals 694 gpm.

Consumption is the water actually delivered to the system's users through metered service connections. Consumption is always somewhat less than demand, the difference being system loss.

System loss is the unaccounted for water. It is the difference between the total system demand and the total metered and unmetered consumption. Demand is usually measured by the system master meter and consumption is measured at the customer's meter or service line. System loss is not necessarily the same as leakage. Unaccounted for water may be the result of leaks, but is also arises because of meter error, unmetered uses such as fire fighting, street flushing, hydrant testing and similar activities.

Average day demand is the total volume of water which enters the system over a period of one year divided by 365 days. It is usually expressed in MGD.

Maximum day demand is the highest flow which occurs in the system in a 24 hour period, expressed in MGD.

Peak hour demand is the highest flow occurring in the system in any one hour period, again expressed in MGD.

C. EXISTING WATER DEMANDS

The investigation begins with a review of the existing system and the quantity, and quality of water it is capable of producing. Water use, production, sales, costs and other operating records are the essential data for this review. Their completeness and accuracy will determine to a great extent the accuracy with which predictions of future needs can be made. Some insight into the system operation may be gained by a review of the operating records.

Well records were obtained from the Public Works Superintendent for the years 1975 through August, 1980. From these records, system demands were reviewed and are shown in Table 4-1. The monthly well production records (system demand) were then compared with monthly water billings (consumption) to determine how much water was unaccounted for.

Water loss appears to be in the range of 15-18 percent. Although the percentage varies from month to month, it does show that some water is being lost between the well and the user.

Typically a normal water system may lose 20 percent of the water pumped due to leaking mains, valves, line flushing, etc.

TABLE 4-1
HISTORICAL SYSTEM DEMANDS

Year	Population	Average Day Demand (gallons)	Maximum Day Demand (gallons)	Est. Average Demand Per Capita Per Day (gallons)
1975*	985	123,208	480,500	125
1976*	**1,070	124,760	513,800	116
1977*	**1,090	129,566	387,100	119
1978*	**1,110	143,207	444,700	129
1979*	**1,130	159,754	516,900	141
1980 (to 9-1)	1,150	177,300	567,700	154

*Water rationing in effect during summer months.

**Adjusted based upon 1980 Census

Because restricted water use has been in effect over the summer months, an accurate projection of free water usage is difficult. Therefore, the estimates of past and future demands presented below are based in part on water use records of other Willamette Valley communities. Wherever possible, the projections have been checked against Dundee records to be certain that the estimates are reasonable.

Compare the preceding information with corresponding data from other cities in the Willamette Valley.

TABLE 4-2

City	Population	Year	System Demands--Gallons Per Capita			Ratios to Ave. Day	
			Average Day	Maximum Day	Peak Hour	Max Day	Peak Hr
Canby	5,775	1977	135.0	497	866	3.68	6.40
Independence	3,850	1977	132.0	389	831	2.94	6.30
Lebanon	8,550	1977	125.0	351	643	2.80	5.10
Monmouth	6,135	1977	94.5	212	733	2.24	7.80
Silverton	4,860	1977	115.0	452	1234	3.93	10.70
Sweet Home	4,500	1977	200.0	489	730	2.44	3.70
Woodburn	10,200	1976	122.0	368	637	3.00	5.20
Springfield	5,800	Unk.	88.0	284	526	3.23	5.99
Suggested design criteria for Dundee			130.0	360	720	3.00	6.00

At the bottom of Table 4-2 are suggested design criteria for Dundee. No significant industrial demands are reflected in above water demand criteria.

In the section on fire flows, however, the effects of industrial development on fire flows will be considered. This effect is significant and will largely determine storage volumes and transmission facility sizes.

Peak hour demands are not recorded for Dundee. Estimates are based on similar water systems in other Willamette Valley communities.

The Dundee water system also provides water for Westnut, a nut processing plant located at the south edge of Dundee. Water usage is shown on Table 4-3.

TABLE 4-3
WESTNUT
INDUSTRIAL WATER USAGE

	Total Water Used (gallons)	Maximum Monthly Consumption (gallons)
1976	1,488,412	777,897 (Nov.)
1977	2,886,454	1,629,811 (Nov.)
1978	1,024,754	380,947 (Nov.)
1979	1,104,113	567,030 (Oct.)

As can be seen from Table 4-3, Westnut uses from one to two million gallons per year for processing. This industry has been compatible with the City as Westnut's greatest water demands occur in the fall of the year when residential demands are lower. Also, several years ago Westnut installed equipment that recirculates much of the wash water, thus cutting their demand on the Dundee water system considerably. Presently there are no immediate plans for expansion of the Dundee plant.

In the future, the Dundee water system may be required to serve not only a growing population but also new industries. The comprehensive plan does not foresee a major increase in light industrial use within the next 10 years and foresees no heavy industrial uses. Using the comprehensive plan as a basis, projections for the growing domestic and commercial demands can be made with a reasonable amount of accuracy.

Industrial water demands are difficult to determine as each industry is different. Some industries, canneries, for instance, use higher quantities of water. Other industries use very little water.

As Dundee's water supplies will probably continue to be wells, and as wells can be drilled and developed within a reasonably short period of time at moderate cost, there seems to be little justification in providing large amounts of surplus water supply capacity for industry until an industry locates in Dundee. Thus the projected industrial water demands used herein will be based on industries which use only moderate amounts of water. If a "wet" industry locates in Dundee, water supply for that industry will need to be addressed.

TABLE 4-4
FUTURE WATER DEMANDS

	1980	1985	1990	1995	2000
Projected population	1150	1700	2100	2500	3000
Projected commercial/industrial development (acres)	15	23	31	40	48
Projected residential development (acres)	118	195	273	250	428
Average domestic demand (MGD)	0.150	0.211	0.273	0.325	0.390
Average commercial/industrial demand (MGD)	0.030	0.046	0.062	0.080	0.096
Total average daily demand (MGD)	0.180	0.267	0.335	0.405	0.486
Maximum day demand (MGD)	0.48	0.709	0.881	1.055	1.266
Peak hour demand (MGD)	0.93	1.372	1.700	2.030	2.436

D. FIRE FLOWS

The Insurance Services Office (ISO) is responsible for reviewing the fire fighting capabilities of various communities. Periodic reviews by the ISO of community water systems and fire departments help to establish the basic fire insurance rates.

ISO reviewed the Dundee water system in 1975 (see Appendix A). Recommendations of the ISO report relating to the water system are as follows:

"WATER SUPPLY:

- "1. That, in addition to the present records and plans, the following be added as part of the records system: All plans and vital records should be kept up to date, in duplicate and safely filed to avoid a total loss in event of a catastrophe. MAINS: size, location, depth of bury, type of construction, date installed and fittings, leaks, breaks and important repairs. SUPPLY WORKS: plans and details of each feature. GATE VALVE BOOK: detail of size, tied-in location, construction, inspection and condition including valves closed and direction of rotation. CONSUMPTION: production (master meters, etc.), sales and losses, number of services-metered and otherwise. HYDRANTS: size, type, construction, branch details, inspection and condition.

"The American Water Works Association's Manual 8, A Training Course In Water Distribution, is a good guide to use for a records system.

- "2. That plans be made to build up the supply and distribution system so that it will supply the recommended fire flow and five day's maximum consumption with the worst possible single break in the system.
- "3. That valves be checked for proper operation and carefully inspected at least annually; the more important valves should be inspected more frequently. Records of inspections and repairs should be maintained.
- "4. That the new arterial system be tied into the old system at every possible location.
- "5. That additional hydrants be installed in those areas not properly protected as follows: (a) in high value districts, one hydrant for each 126,000 square feet; (b) in residential districts, one hydrant for each 160,000 square feet.
- "6. That all hydrants be kept in good mechanical condition. Hydrants should be thoroughly inspected at least twice annually, the unnecessary repairs made and records kept of the inspections."

The ISO performed fire flow tests on various hydrants in the Dundee system. The test results are shown on the following page. By the year 2000, 48 acres of commercial/industrial development is anticipated. These areas typically represent the higher fire flow demands in a city.

Both the ISO report and the land use projections point toward higher fire demands needed in the future. For these reasons, we believe the water system should be designed to deliver the ISO recommended 2500 gpm by 1981 and gradually increased capacity thereafter to 3500 gpm in the year 2000. Table 4-5 sets out the recommended fire flows, durations, and needed available water volumes based on these criteria.

TABLE 4-5
RECOMMENDED FIRE FLOWS

Year	Flow (gpm)	Duration (hours)	Volume (MG)
1981	2500	2	0.300
1990	3000	3	0.540
2000	3500	3	0.630

FIRE FLOW TESTS

7D tests: System consumption rate during tests 0.14 MGD; Time of day 1:00 to 3:00 p.m.

[illegible]

ISO-PPO 810 (1-73)

The ISO report also discusses a number of deficiency areas in the Dundee water system (587 deficiency points out of a maximum 1950). The largest system deficiency noted was inadequate distribution of fire hydrants.

The city is presently rated a Class 5 for fire insurance.

ISO indicates that Dundee's water system will be evaluated again in 1981. Although much of the rating system has been revised, it can be assumed the 1975 deficiencies will still be noted in 1981.

CHAPTER 5

SOURCES OF SUPPLY

A. SUMMARY

The City has over the years obtained its water supply from wells. Presently six different wells plus springs are used and all sources combined are presently capable of producing approximately .792 million gallons per day. The 1980 maximum day demand is .519 million gallons per day.

In order to forecast any potential problems in the existing wells, accurate data should be kept of pump operating hours, gallons pumped, well static water levels and pumping drawdown levels. These records should be reviewed by the city engineer annually.

Projected water system demands indicate an additional water source will be required by 1985-87. Plans should be initiated earlier to assure the water supply will be completed by 1985.

Although the Willamette River could provide additional water, costs for required treatment would approach \$500,000-\$700,000. Water rights cannot be guaranteed for the required water during all times of the year.

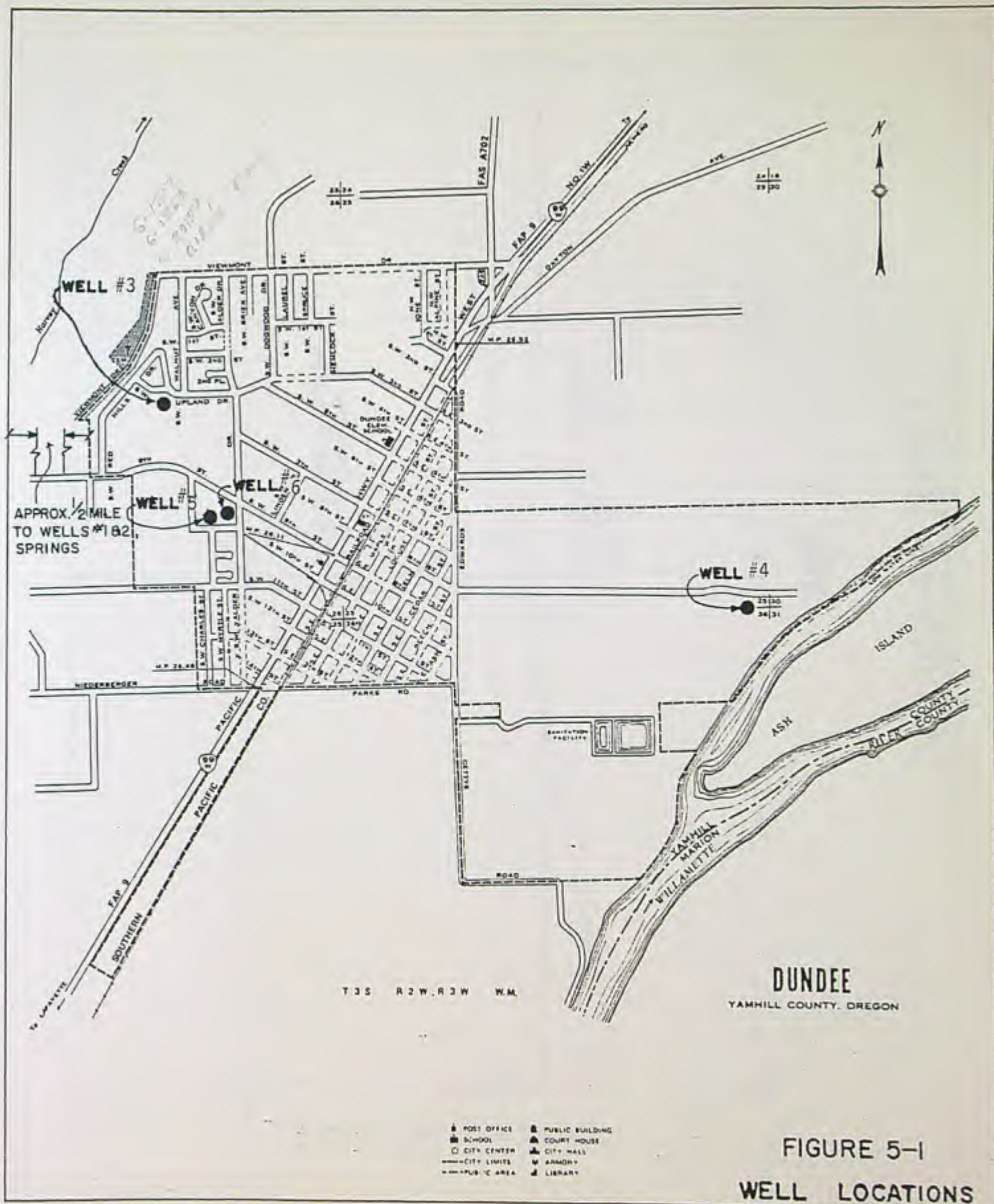
It is recommended an additional well, capable of producing 350 gpm, be drilled near the Willamette River. The new well should be completed by 1985.

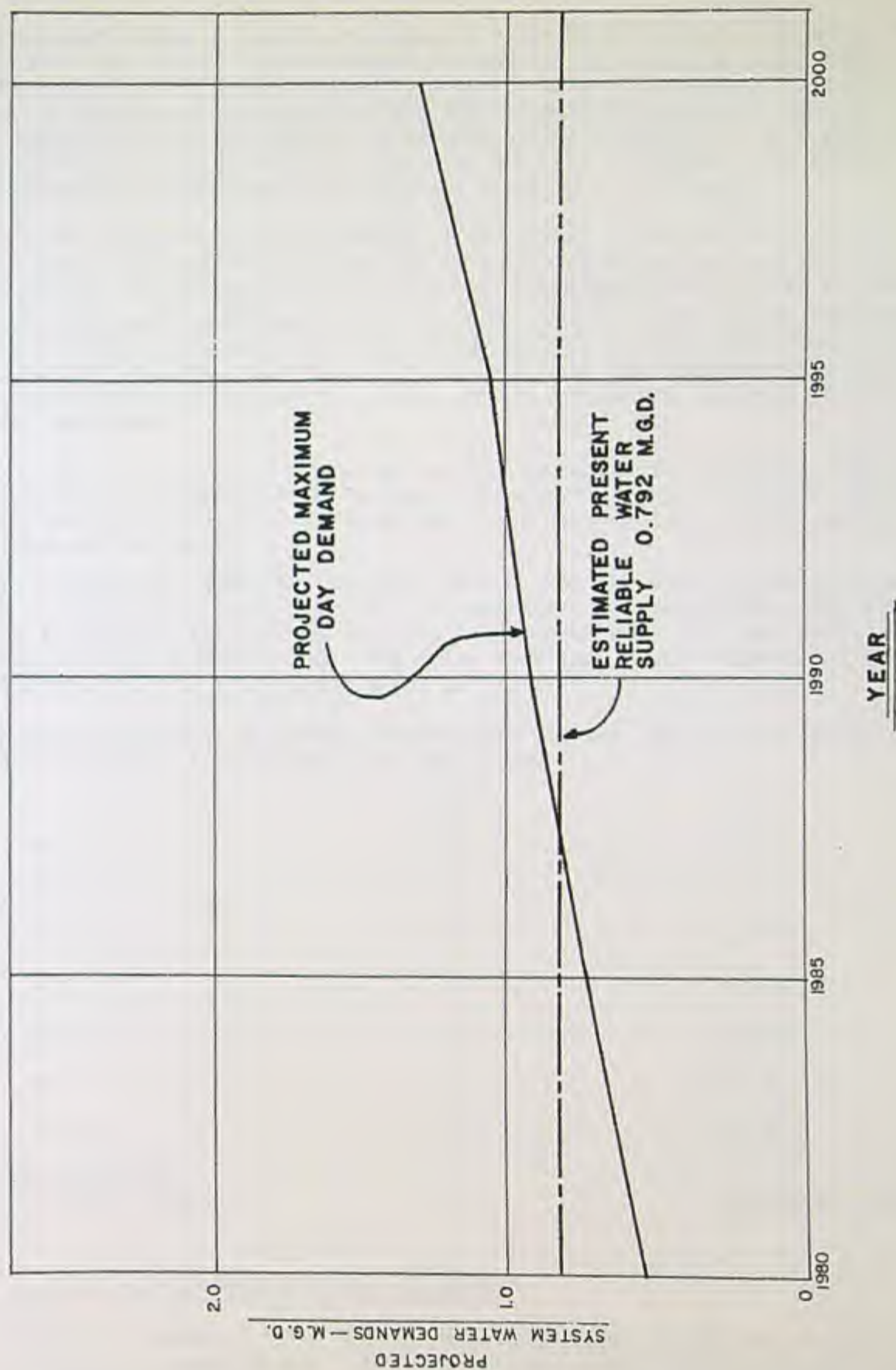
B. GENERAL

Dundee presently draws its water from six wells located in various parts of the City. Figure 5-1 shows the locations of the producing wells. Table 5-1 lists some of the more important well characteristics. (See Appendix B for additional well data.)

TABLE 5-1
EXISTING WELLS

	#1	#2	#3	#4	#5	#6
	YAMH 4521	Y 4551	Y 4549	Y 2620	Y 4528	Y 4531
Diameter	8"	8"	16"	12"	6"	6"
Depth	103'	200'	471'	100'	160'	140'
Date Drilled	1971	1973	1956	1973	1977 1979	1977 1979
Test Pumping Drawdown	83'	160			100'	96'
Pump Horsepower	15	10	20		7.5	7.5
Pump Setting	90'	40'	454'	90'	115'	115'
Present Yield GPM (measured)	50	50	65	65	135	135





DEMAND-VS-SUPPLY

FIGURE 5-2

A seventh source of water for Dundee is a series of springs located to the west of wells #1 and #2. These springs provide approximately 50 gpm. Water from the springs flows into a cistern along with water from wells #1 and #2 where it is chlorinated and pumped to the 200,000 gallon reservoir. Well #3 is located adjacent to the 85,000 and 400,000 gallon reservoirs. This well was initially drilled in 1956 to a depth of 385 feet. In 1960 in an attempt to increase well production, the well was deepened to 471 feet.

Well #4 located near the Willamette River within the flood plain, is the only successful attempt the City has had in obtaining water from the Willamette alluvial. Two additional wells have been attempted, one in 1974, and one in 1979. The wells utilized a steel casing with milled 1/2"x2-1/2" perforations. The outside of the wells were then packed with 3/4" rock. Consequently, the larger perforations and rock failed to keep sand from entering the wells and being pumped from the aquifer. Thus, severe settlement occurred and the wells were abandoned.

Well #4 has indicated problems may be developing as its production has dropped from 110 gpm in 1972, to its present capacity of 65 gpm. This well should be monitored closely and if the yield continues to decrease, a study should be made as to the cause.

Wells #5 and #6, known as the Pruitt Wells, are not owned by the city, but by a private individual. In 1979, an agreement was made between the city and a developer that allows the city to purchase water from the wells when required, for a nominal fee. The wells have been good producers and have provided the city with needed water during periods of high usage.

Based on records of past well and pump performance, the reliable water supply from each well is estimated to be as follows:

	<u>GPM</u>	<u>GPD</u>
Well #1	50	72,000
Well #2	50	72,000
Well #3	65	93,600
Well #4	65	93,600
Well #5	135	194,400
Well #6	135	194,400
Springs	<u>50</u>	<u>72,000</u>
Total Estimated Available Supply	550	792,000 or .792 MGD

C. ADEQUACY OF PRESENT SUPPLY SERVICES

Until the summer of 1980, Dundee restricted water use to its residents during the summer months. Up to this time, system demands exceeded the available water supply. When wells #5 and #6 were added, sufficient supply became available to meet the summer demands.

Figure 5-2 shows the maximum day demand (estimated) versus total available supply. The supply should be capable of meeting the maximum day demand. As can be seen, additional water supply will be needed by 1985-87 if the projected rate of growth is reached.

The City should take steps to insure that there is reasonable warning of any water demand and water supply difficulties. These steps include:

1. Read metered well flows and pump operation hours for all wells on a daily basis, including weekends.
2. Compare monthly well meter totals with monthly residential meter totals to determine if system loss is reasonable.
3. Install water level measuring gauge at well #3. Measure static water levels and pumping drawdown levels in all wells every three months.
4. Annually have the City Engineer review records, comparing maximum day water demand with measured well capacities. Records of static water levels and pumping drawdown levels in wells to be maintained.

D. WATER QUALITY

The quality of the water supply is determined by many factors. The physical and chemical characteristics of the water supply will determine both its potability and acceptance by the system's customers. Temperature, taste, odor, clarity, and mineral content all affect quality. Even small concentrations of pathogenic bacteria can cause illness and other organisms such as viruses have public health significance.

At present, the City does not treat the raw water from any of the wells but does have chlorination capabilities at wells #1, #2, springs, and well #4. Iron and manganese content in a typical water sample is below the maximum amount allowed by the Oregon State Health Department.

E. SUPPLY SOURCES

Willamette River--A possible source of water for Dundee would be the Willamette River. Using this source has several disadvantages. First is cost.

All surface water available from the Willamette River requires substantial treatment before use as a public water supply. Chemical coagulation, flocculation, sedimentation, filtration and disinfection would be necessary. Thus, an intake and water treatment plant, probably built to handle at least 0.85 MGD, could be located near the City. These facilities at 1980 prices would cost roughly \$500,000 to \$700,000. The cost of operating and maintaining these facilities would be significantly greater than obtaining water from wells, if adequate wells can be obtained.

Second is availability. In the fall of 1979, the city applied to the Water Resources Department for a permit to divert from the river. The late summer

flow in nearly all streams is required to satisfy existing rights. A permit, when issued, grants the right to use water only when there is a surplus in the source over and above that required to satisfy prior rights. It would be possible that even with a permit to obtain water from the Willamette River, prior rights of other individuals may mean Dundee could not obtain sufficient water during the summer months.

Wells--The city has traditionally relied on wells for water. Where adequate wells can be developed, they usually result in lower cost water which requires a minimum of treatment prior to use. Wells can usually be developed in a fairly short period of time (six months to one year) and can be added as the city grows and needs more water. A study of well logs and geological reports in the Dundee area indicates the area is underlain with Columbia River basalts and Willamette silts and alluvium. Five of the city's six wells presently obtain water from the Columbia River basalts (See Appendix B). With the exception of wells #5 and #6, yields range from 50 to 65 gpm. Water obtained from the springs also flows from fractured basalt near wells #1 and #2..

Water may be obtained from the Columbia River basalts but yields may fluctuate with the seasons of the year, i.e., higher yields during wet months, lower yields during dry months when water demand is at its highest. Dundee is also fortunate in that being adjacent to the Willamette River, obtaining water from the Willamette alluvials is also a possibility. Presently well #4 is drilled into the Willamette alluvial deposits.

This past summer, the City of Newberg drilled several wells into the Willamette alluvial which yielded 1800 gpm and 2500 gpm. Studying the well logs of these wells and other wells the City has drilled near the river, similarities may be found in the alluvials, indicating that a high yield well may be drilled in the area of well #4.

The Newberg wells utilize a stainless steel wire type well screen with gravel packing to prevent fine sands from entering the well. If Dundee were to utilize this type of well construction, a high yielding (350-500 gpm) well most likely could be drilled in the area of well #4. Any new wells drilled near the Willamette River would likely fall within the Willamette River Flood Plain as does well #4. Well construction should take this into consideration in order that flooding of motors, controls, etc., will not occur.

It has also been noted that water quality within the Willamette alluvial deposits does vary, as does water from the Columbia River basalt. If site selection is carefully considered, chances are greater that good quality water can be found.

F. SUPPLY DEVELOPMENT

The continued use of wells appears to best meet the city's needs. It is recommended that the city develop a good 350-500 gpm well to meet the projected daily demands until 2000.

The suggested plan for developing the new well is as follows:

1. Select a well site, after careful study of local well logs, etc., by the City Engineer.
2. Negotiate for an option on a 40' x 40' land parcel at the desired drilling location.
3. Drill a six inch test hold exploring for water. If substantial water flow is found, obtain a water sample and run a chemical test.
4. If results warrant, enlarge well, case and install wire wound gravel packed well screen. Develop well.
5. Exercise the option on the land and construct the necessary facilities. Obtain the necessary funding, probably through the sale of general obligation bonds, and make the needed well improvements and construct the connecting pipeline.

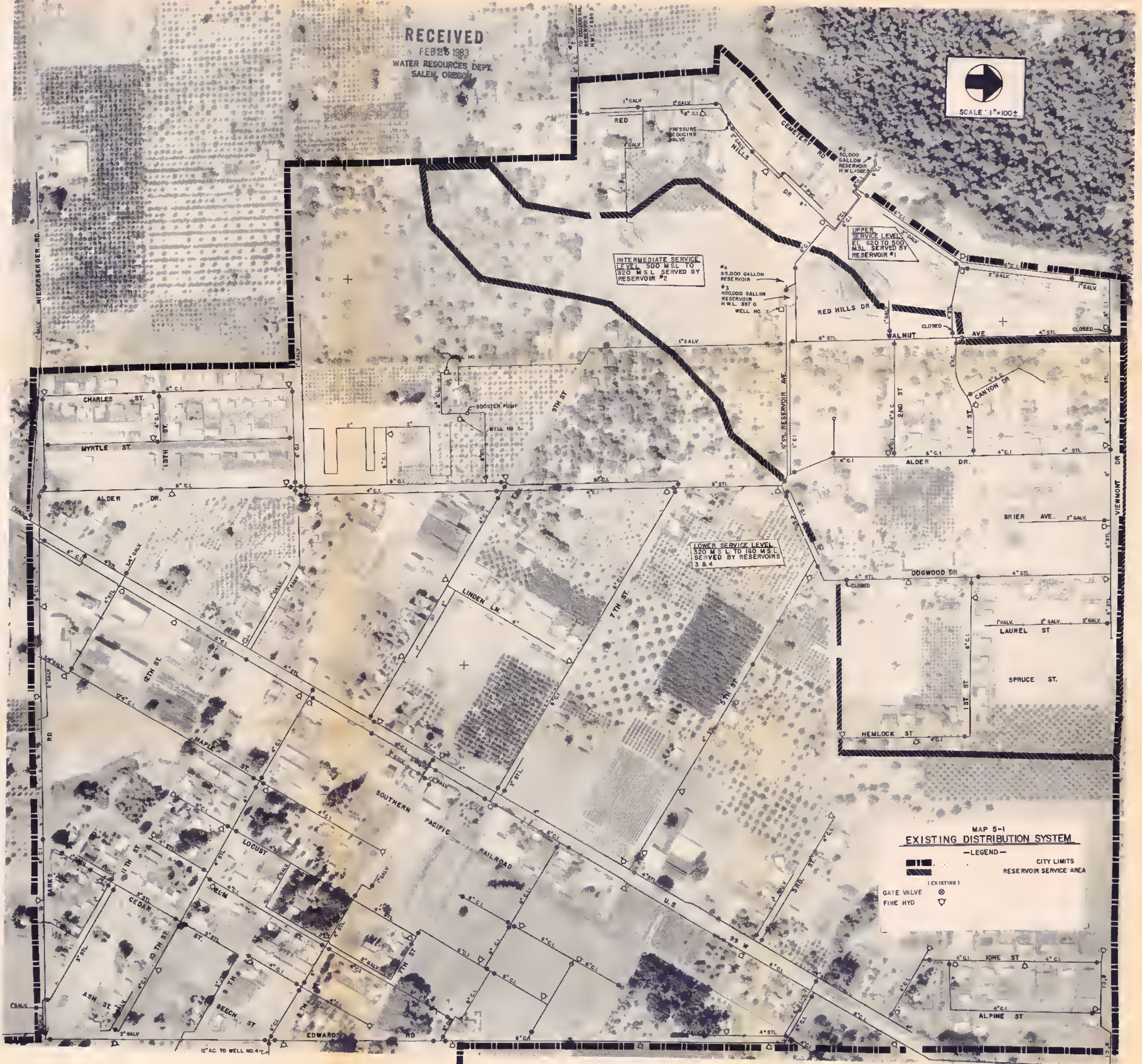
H. COST ESTIMATE

Estimated well and development costs might be as follows:

<u>Estimated Well Development Costs</u>	
a. Test holes and test pumping	\$ 3,500
b. 10" diameter well 200 feet deep, well screen, test pumping	35,000
c. Well house, pump and controls	32,000
d. Connection to city main	<u>8,000</u>
Estimated construction cost	\$78,500
Land	2,000
Engineering, surveying, legal and administrative, contingencies	<u>15,700</u>
TOTAL ESTIMATED COST	\$96,200

The above plan is designed to maximize the chances of developing a good well while minimizing the expenditures until well development is assured.

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CHAPTER 6

WATER TRANSMISSION, STORAGE AND DISTRIBUTION

A. SUMMARY

The Dundee water transmission, storage, and distribution system will be capable of providing all system needs (1981-85) including fire flows, upon completion of Priority A improvements.

Priority A (1981-85) improvements are designed to satisfy fire flow requirements to major residential and commercial areas of the city. Included are additional hydrants that will provide adequate fire coverage for all areas.

Priority B (1981-2000) improvements are designed to accommodate projected commercial/residential growth as it occurs.

Proposed improvements are summarized as follows:

<u>Item</u>	<u>1981-85 Priority A</u>	<u>1981-2000 * Priority B</u>
1. Distribution system improvements	\$ 75,300	\$176,500
2. Construct and develop new well	78,500	
3. Construct 0.5 MG reservoir		<u>190,000</u>
Estimated construction costs	\$155,800	\$366,500
4. Land and easements	2,000	2,000
5. Engineering, legal, administrative costs and contingencies	<u>34,850</u>	<u>91,625</u>
ESTIMATED TOTAL COST	\$190,650	\$460,125

*With proper control and planning, many Priority B improvements may be built without direct city costs.

B. GENERAL

The water system should be able to supply needed quantities of water to all points of use. In addition, the water should be delivered at reasonable pressures.

Over the past several years, the Dundee water system has been unable to meet summer demands. Consequently, water rationing has been implemented. The summer of 1980 was an exception in that no water restrictions were imposed. This could be attributed to the addition of wells #5 and #6 to the system and perhaps also to altitude valve pressure sensors being replaced.

Flow tests made at selected points in the distribution system by Oregon Insurance Rating Bureau indicate sufficient fire flows were available at six of seven hydrants tested (see Appendix A). Flow tests were not conducted on hydrants located within the older portions of Dundee where many small diameter lines and older hydrants exist.

C. THE EXISTING SYSTEM

Water must be delivered by the distribution system to various areas of use throughout the system. In Dundee, the water system consists of assorted pipe sizes. Pipe materials are generally galvanized iron, steel and ductile iron.

It is well to evaluate the service characteristics of pipe used in the past. Over the past several years numerous leaks have appeared in the older steel and galvanized iron pipe, indicating more frequent repairs will be needed in the future. Ductile iron has serviced the system well and the Public Works Superintendent has expressed a preference for this type of pipe.

D. STANDARDIZATION OF PIPING

It is generally desirable to use as few types of pipe within a water system as practical. Reasons for this include the following:

1. Fewer types and sizes of repair bands, service saddles, fittings, etc., need to be stocked.
2. Fewer tools required by maintenance personnel.
3. More efficient use of maintenance personnel.

In the future, it is recommended that new piping be standardized as follows:

TABLE 6-1
SUGGESTED PIPING STANDARDS

Pipe Diameter	Type of Pipe
4 to 16 inch	Ductile iron
Service pipe to 2"	High quality high molecular weight polyethelene, Class 160, or copper

E. SERVICE PRESSURES

Water service pressure is provided by interconnection of four reservoirs to supply three service levels of the Dundee system (upper, intermediate and lower levels). See Map 5-1.

A 200,000 gallon reservoir located approximately one-half mile west of Dundee is fed by wells #1, #2 and the springs. Water then flows to the intermediate level and also to the 50,000 gallon reservoir which services the upper level.

The 400,000 and 85,000 gallon reservoirs which supply the lower level of the Dundee system are also fed by the 200,000 gallon reservoir. In addition, wells #3, #4, #5 and #6 pump into these two reservoirs.

Normal system pressures range from 30 psi to 105 psi.

F. BASIC DESIGN CRITERIA

The size and location of all water system components including pipelines, storage reservoirs and pumping facilities will determine the ability of the system to meet the water demands under various imposed conditions. Future water uses at various areas are estimated by considering the type of land use shown in the comprehensive plan.

With peak water demands at various locations established, hydraulic analysis of the water supply system can be made.

Not only must the various demands placed upon the water system be met, but the designed system should be as practical and economical as possible.

The conditions investigated to determine the system adequacy were as follows:

1. Peak hour demands for the entire system must be met with pressures remaining in the 30 to 100 psi range. Reservoirs are assumed to be half full.
2. Peak hour demands must be met for a four hour period without depleting system storage by more than 50 percent.
3. Fire flows to a single fire at any of various points should be met while maximum day demands are supplied by the entire system. Minimum pressure at the hydrant was assumed to be 20 psi during fire flow conditions.
4. Fire flows in the business or industrial districts should be met while the system meets maximum daily demands shown in Table 4-4, and without a storage depletion exceeding 67 percent of total system storage.
5. The system must be able to refill all storage reservoirs during periods of reduced demands.

Any large development could seriously change the conditions predicted by the above analysis. Therefore, if and when plans for large developments are presented, it may be necessary to re-analyze expected water flows to the affected area.

G. EXISTING STORAGE FACILITIES

An inventory of reservoirs utilized by the Dundee water system is shown on Table 6-2.

TABLE 6-2
STORAGE RESERVOIR INVENTORY

No.	Location	Size (gallons)	Type*	Date Built	Condition	Overflow Elev.
1	1/2 mile west	200,000	Steel	1973	Excellent	689.5
2	Cemetery Road & Reservoir Dr.	50,000	Steel	1973	Excellent	582.5
3	Reservoir Ave. & Red Hills Drive	400,000	Concrete	+1963	Good	397.0
4	Reservoir Ave. & Red Hill Drive	85,000	Concrete	+1920	Good	

*All reservoirs are ground storage type.

A total storage capacity of 735,000 gallons is available.

H. FIRE FLOWS AND HYDRANTS

As previously mentioned in Chapter 4, the Insurance Services Office (ISO) surveyed the Dundee water system in 1975 to determine the system's ability to deliver water for fire fighting. The following ISO suggestions were considered most important. (See Appendix A for entire report):

- "5. That additional hydrants be installed in those areas not property [sic] protected as follows: (a) in high value districts, one hydrant for each 126,000 square feet; (b) in residential districts, one hydrant for each 160,000 square feet. (249 deficiency points)
- "6. That all hydrants be kept in good mechanical condition. Hydrants should be thoroughly inspected at least twice annually, the necessary repairs made and records kept of the inspections. (53 deficiency points)"

As can be seen, approximately one-half of the deficiency points under the "Water Supply" section can be attributed to item #5.

TABLE 6-3
RECOMMENDED FIRE FLOW CAPABILITY AND HYDRANT COVERAGE

	Recommended Minimum Fire Flows--GPM	Recommended Sq. Ft. Coverage Per Fire Hydrant
Industrial	3500*	*
Schools	4000*	*
Commercial	2500	128,000
Residential		
High density	1500	160,000
Medium density	1250	160,000

*Needs to be evaluated for each major building

I. PURPOSE OF STORAGE RESERVOIRS

Storage reservoirs within the distribution system provide at least five important services.

1. They provide a reservoir supply of water to draw upon during short term peak system consumption.
2. They provide a reserve supply of water to meet fire demands.
3. They allow parts of the system and its water sources to be shut down for repairs or maintenance.
4. They help in keeping system pressures reasonably constant from place to place and from time to time during the day.
5. They generally add to system reliability.

J. WATER STORAGE NEEDS

Based on the distribution system design criteria presented in Sections F and G, future water demands and projected fire flows, system storage needs are as follows:

TABLE 6-4
DISTRIBUTION STORAGE NEEDS

	1980	1985*	1990*	2000*
Total storage needed (million gallons)	.42	.653	.885	1.16

*Assumes one new 350 gpm well is added to the system in 1985

TABLE 6-5
RECOMMENDED DISTRIBUTION SYSTEM IMPROVEMENTS

PROJECT DISTRIBUTION SYSTEM MAIN IMPROVEMENTS			ESTIMATED CONSTRUCTION COSTS	
Location	Size (inches)	Length (feet)	Priority A	Priority B
Cedar (Parks to 9th St.)	6"	1000	18,000	
11th Street (Cedar to Maple)	6"	700	12,600	
9th Street (Edwards to Maple)	6"	1100	19,800	
7th Street (Edwards to Locust)	6"	500	9,000	
10th Street (Edwards to exist. 4" line)	4"	50	900	
Hydrants	10 ea.		15,000	
11th Street (Parks to Cedar)	6"	600		10,800
7th Street (Locust to Maple)	6"	250		4,500
8th Street (Locust to Maple)	6"	200		3,600
Maple Street (7th to 8th)	6"	400		7,200
Between Alder and Dogwood	6"	500		9,000
Hydrants	4 ea.			6,000
Spruce Street (1st and Viewmont)	6"	800		14,400
Third Street (5th to Viewmont)	8"	3000		60,000
9th Street (Alder to Red Hills)	8"	1500		30,000
Reservoir Ave. to 9th St.	8"	800		16,000
Hydrants	10 ea.			15,000
TOTALS			\$75,300	\$176,500

The city presently has .735 million gallons of storage available. By 1990, .150 million gallons additional will be required and by 2000, .425 million gallons additional will be needed. It is recommended that Dundee plan on adding an additional .50 MG reservoir to the system by 1987-88.

Water is most reliably available when it can provide system pressure by gravity flow. Thus, reservoirs are usually located on hills or are elevated on legs. Because of the west hills of Dundee, a new reservoir could be located near the 50,000 gallon reservoir and easily be connected to the water system.

F. RECOMMENDED PIPING IMPROVEMENTS

A review of ISO fire flow test results indicates adequate fire flows were obtained at hydrants tested. A hydraulic analysis of the distribution system finds shortcomings with the existing piping in the southeastern part of Dundee. 1", 2" and 3" diameter lines serving this area should be replaced with 6" diameter piping to provide adequate fire flows to the residential areas. Also lines should be looped to fully utilize capacity of existing piping, especially 4" lines.

The recommended piping improvements are shown on Map 6-1 and Table 6-5. The Priority A improvements are designed to satisfy fire flow requirements to major residential and commercial areas of the city. Included are additional hydrants that will provide adequate fire coverage for all areas presently developed within the city limits.

Priority B improvements will be required when development occurs in the nearby areas. These improvements will further strengthen the system and provide adequate fire flows to these areas.

As development takes place, the city may have an opportunity to see much of the Priority B piping costs shared by developers, thus minimizing direct city expense. This will be discussed further in Chapters 7 and 8.

BASIS OF COST ESTIMATES

Because construction of the improvements listed in Table 6-5 would probably not begin before 1981, cost estimates assume some inflation will occur. Costs shown are estimated at 1981 price levels.

CONCLUSIONS

The Priority A improvements are required to update the water system and provide adequate fire flows to all presently developed residential/commercial areas.

The city will need to decide to what extent it, as opposed to the developers or new industry, will financially support the water system improvements.

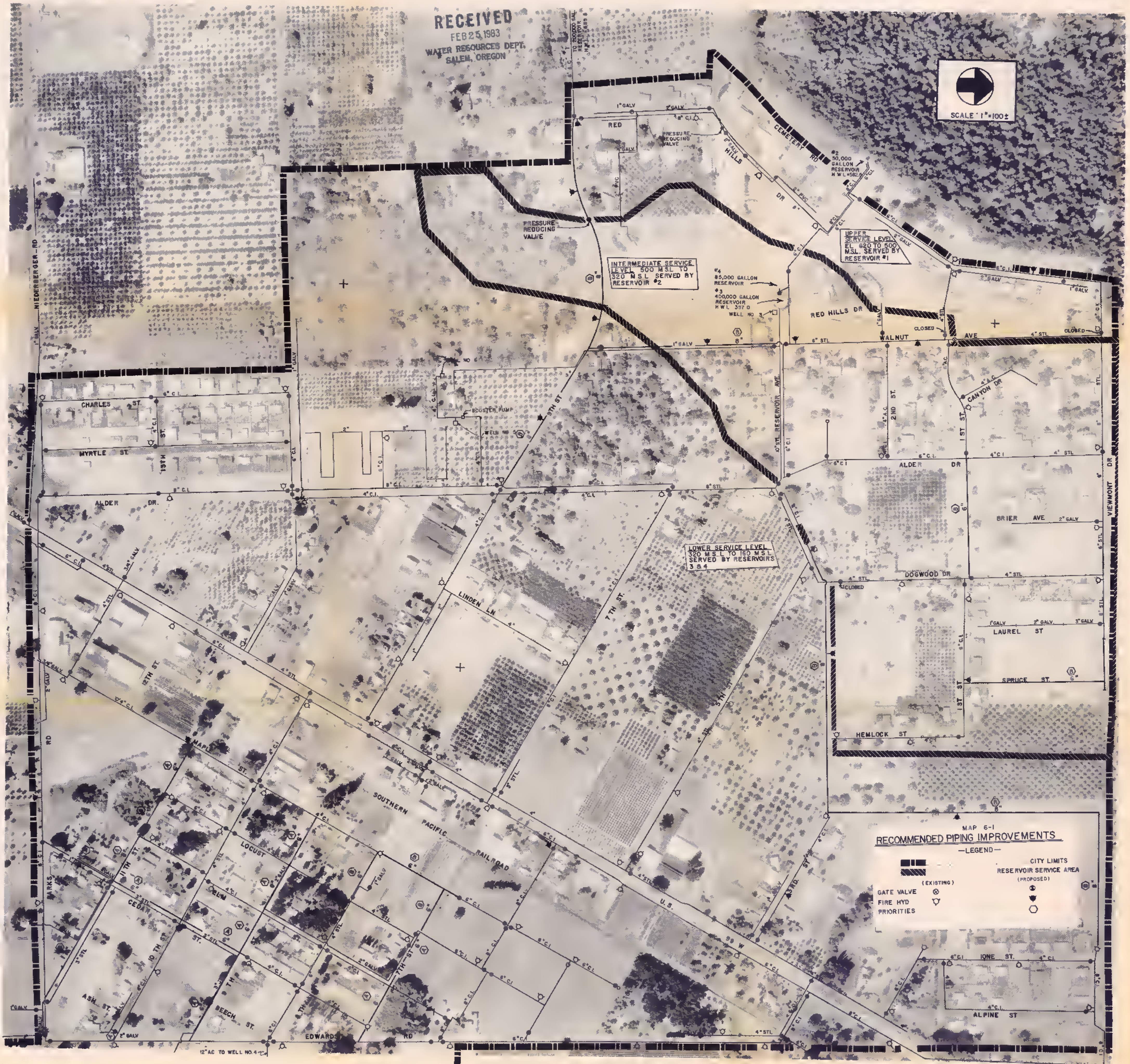
Estimated costs for construction of Priority A improvements are as follows:

Priority A pipe improvements	\$75,340
Engineering, legal, administrative cost and contingencies	<u>15,068</u>
Total estimated costs for Priority A improvements	\$90,408

Priority B improvements can be scheduled when development in these areas occurs.

Priority B pipe improvements	\$176,500
Construct 0.5 MG reservoir	190,000
Engineering, legal, administrative cost and contingencies	<u>93,625</u>
Total estimated costs for Priority B improvements	\$460,125

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MAP 6-1
RECOMMENDED PIPING IMPROVEMENTS

- LEGEND—
- CITY LIMITS
 - RESERVOIR SERVICE AREA (PROPOSED)
 - (EXISTING)
 - GATE VALVE
 - FIRE HYD
 - PRIORITIES

CHAPTER 7

FINANCING

A. SUMMARY

The cost of operating and maintaining the water system is expected to rise rapidly, regardless of whether system improvements are made or not.

The cost of making system improvements can be financed in several ways. The majority of Priority A improvements benefit the entire city and funding by general obligation bonding is suggested. A \$191,000 bond issue with 40 year maturities at an estimated five percent interest sold to Farmers Home Administration is suggested. Debt repayment would average about \$11,052 per year or, if paid by taxation, about \$.50 per \$1000 assessed valuation initially. An increase in water rates from \$4.00 minimum to \$5.00 would need to be implemented for future system operation.

B. FUNDS NEEDED

The suggested Priority A improvements listed in the preceding chapter will require the expenditure of an estimated \$190,650. Additional expenditures will be needed as development occurs. In addition to the expenditures for capital improvements, operation, maintenance, administration and similar expenses will continue to increase. Operation and maintenance costs have been projected for the years 1981 through 1985. Projections beyond five years probably are of little value.

Projected water system revenues and expenses are based on the following assumptions:

1. Personnel services will rise at a rate of 10 percent per year.
2. Materials and supplies will increase due to both inflation and the expanded service population at a rate of 12 percent per year.

C. CURRENT WATER REVENUE

Current Water Rates (See Appendix C)

Current monthly rates for water service in Dundee are as follows:

Residential

0-500 cubic feet	\$4.00 (minimum)
Next 3500 cubic feet	25¢/100 cu. ft.
Over 4000 cubic feet	50¢/100 cu. ft.

Outside ciity limits

0-500 cubic feet	\$5.50 (minimum)
Next 3500 cubic feet	40¢/100 cu. ft.
Over 4000 cubic feet	1¢ per cu. ft.

Commercial

0-500 cubic feet	\$5.50 (minimum)
Next 3500 cubic feet	30¢/100 cu. ft.
Over 4000 cubic feet	50¢/100 cu. ft.

<u>Connection charge</u>	\$300
--------------------------	-------

D. FUNDING SOURCES

1. Water Sales and Connection Fees

The primary sources of funds for water system operation and expansion in the past have been water sales and connection fees. Table 7-1 shows the recent history over the last five fiscal years.

TABLE 7-1
WATER FUND RESOURCES

	FY 74-75	FY 75-76	FY 76-77	FY 77-78	FY 78-79
Water sales and connection fees	\$37,657	\$36,817	\$36,557	\$27,244	\$28,956

2. Revenue Bonds

These bonds are purchased at higher interest rates than general obligation bonds because they obligate only the revenue from the sales of the utility. Because of the higher interest payments, revenue bonds are considered less desirable than GO bonds.

3. General Obligation Bonds

Part of the funding for water system development may be financed through the sale of general obligation bonds. The city has used this method in the past and has bonds presently outstanding as shown on Table 7-2. General obligation bonds with maturities of up to 20 years have recently been selling for 8-3/4 to 9 percent annual interest. The city could

possibly qualify for sale of bonds guaranteed by Farmers Home Administration for five percent annual interest and maturities scheduled over a 40-year period.

4. Development Fees/Shared Costs

A considerable amount of Priority B improvements listed in Chapter 6 extend through undeveloped properties. It is expected that some of these improvements will take place piecemeal over the next 20 years as the city develops. Development should pay a fair share of the improvement costs because of the increased burden on city services. A policy of requiring the developer to install waterlines, at his own cost, 8" or smaller in residential areas, 10" or smaller in commercial areas, is suggested. Improvements to the existing system, such as wells, updating the distribution system and reservoirs, which are a benefit to all system users should be financed at the expense of the city.

Following this reasoning, it is recommended that the city adopt a cost sharing formula for those large diameter "oversized" waterlines which are routed through new developments. For example, suppose the water system master plan indicates that a 10" line is needed in an area of the city to be developed as a residential subdivision. The city should require the developer put in the 10" line with the city paying the difference in cost of an 8" line. By this means, the master water plan will gradually be realized as the service area grows and the costs to all concerned may be shared in an equitable manner.

5. HUD Block Grants

This program is used to fund water and sewer systems. The application procedure is similar to FmHA, except that more data on community housing needs, income, etc., is needed. The selection criteria is based on low income, high unemployment, and community need.

6. Economic Development Administration (EDA) Local Public Works Capital Development and Investment Program

This is a program to watch. The U.S. Congress recently passed legislation preparing for distribution of grant funds if the national unemployment rate reaches a preset level. If money is appropriated, 100 percent grants will be distributed to various state, county, city, school district and other governmental units to finance public works construction. The City should be ready to apply if this program is funded.

E. FINANCING APPROACH

In deciding on a financing plan for the improvement of the water system, two principles should, be believe, be followed:

TABLE 7-2
OUTSTANDING BOND ISSUES
WATER IMPROVEMENT

	Water Reservoir Bonds Issued 4/1/62	Water Improvement Issued 1/30/73	Water Improvement Issued 8/9/73	Water Improvement Issued 10/1/78	Total Annual Payment
	Principal Interest	Principal Interest	Principal Interest	Principal Interest	
1979-1980	\$ 2,000	\$ 574	\$ 1,782	\$ -0-	\$ 17,711
1980-81	2,000	602	1,872	10,000	27,256
1981-82	2,000	634	1,966	10,000	26,456
1982-83	2,000	664	2,064	10,000	25,751
1983-84	2,000	698	2,166	10,000	25,106
1984-85	2,000	732	2,274	10,000	24,453
1985-86	1,000	770	2,388	10,000	13,086
1986-87		808	2,508		12,046
1987-88		848	2,634		
1988-89		890	2,766		
1989-90		936	2,904		
1990-91		982	3,048		
1991-92		1,032	3,202		
1992-93		1,082	3,362		
1993-94		1,136	3,530		
1994-95		1,194	3,706		
1995-96		1,254	3,892		
1996-97		1,316	4,086		
1997-98		1,382	4,290		
1998-99		1,450	4,504		
1999-2000		1,524	4,730		
2000-01		1,600	4,966		
2001-02		1,680	5,214		
2002-03		1,764	5,476		
2003-04		1,852	5,748		
2004-05		1,944	6,036		
2005-06		2,042	6,338		
2006-07		2,144	6,656		
2007-08		2,250	6,988		
2008-09		2,364	7,338		
2009-10		2,482	7,704		
2010-11		2,606	8,090		
2011-12		2,736	8,494		
2012-13		1,302	3,788		
	\$13,000	\$1,960	\$146,510	\$50,000	\$478,361
			\$158,032	\$10,537	

Note: Present assessed valuation of Dundee: \$23,375,534

1. Total revenues derived from the plan must equal total expenditures.
2. Within practical limits, the cost of a particular improvement should be apportioned fairly among those properties which benefit from that improvement.

Bearing these in mind, a financing approach can be formulated as suggested below:

<u>Type of Improvement</u>	<u>Properties Benefited</u>	<u>Financing</u>
Reservoirs	All	GO bonds
New wells	All	GO bonds
Main replacements (3" and smaller)	Abutting properties	Service charges or property assessments
Main replacements (larger than 3")	Abutting and other properties	GO bonds
Main extensions (not oversized)	Abutting properties	By developer or property assessments
Main extensions (oversized)	Abutting and other properties	Developer and city
New hydrants	Abutting and other properties	GO bonds

F. FINANCING PLAN

General obligation bonds are most often used by cities to finance substantial utility improvements benefiting a major portion of the city. Revenue bonds are sometimes sold, but they generally require higher interest payments.

General obligation bonds can usually be sold to private bond buyers for maturities up to 20 years at interest rates of 8 to 8-3/4 percent.

Farmers Home Administration also commonly helps small cities finance water system improvements. For financially strapped small cities, FmHA can buy bonds at five percent interest and 40 year maturities. Grant funds up to 75 percent of project costs are sometimes available if the cost of system improvements makes the cost to users "excessive." Usually funds through FmHA are available within one year after application if no grant funding is sought, but a several year wait is not uncommon if a grant is required.

Three plans for financing Priority A improvements are shown on Table 7-3.

TABLE 7-3
LONG-TERM FINANCING OPTIONS
\$191,000

	Plan 1	Plan 2	Plan 3
1. General obligation bonds			
a. Private, 8-3/4%--20 yr.	\$191,000		
b. FmHA, 5%--40 year		\$191,000	\$95,500
2. FmHA grant			95 500
TOTAL	\$191,000	\$191,000	\$191,000
3. Annual repayment, principal and interest	\$21,740	\$11,052	\$ 5,526

With the present rates of inflation, there are reasons for considering lengthy payback periods. As long as inflation rates exceed the interest rates on available financing, the true cost of borrowing is nil. Thus the city might be well advised to seek project funding through FmHA and apply for as much grant funding as FmHA determines is appropriate.

H. CASH FLOW

All of the considerations above may now be combined in a revenue/expenditure chart, year by year, to show how funds will be needed and how they may be generated from tax levy, service charges and connection fees. The object of the revenue/expenditure chart is to show how rate increases and system improvements may be timed to avoid either budget deficits or excessive budget surpluses.

The revenue/expenditure chart, Table 7-4, is shown on the following page. \$191,000 in general obligation bonds, 40 year maturity at 5% interest is assumed to be used to finance system improvements in 1981. Annual debt repayment would average \$11,052.

Note that the debt retirement is shown as being funded by tax revenues entirely. The revenue generated from increased user fees can help finance an increased city involvement in oversized lines and new storage facilities; much of which will probably be initiated by land development activities.

I. SUGGESTED IMPLEMENTATION

We suggest the city proceed as follows:

1. Apply to Farmers Home Administration for loan and grant funding for Priority A improvements together with any other improvements with substantial public support.

TABLE 7-4

PROJECTED WATER SYSTEM REVENUES AND EXPENDITURES

Fiscal Year	No. Services	Pop.	SYSTEM EXPENDITURES				SYSTEM REVENUES				
			O & M	Debt Serv. & Misc.	Constr. Fund Capital Outlay	Total Expenditures	Water Sales	Conne- ction fees	Misc. Revenues Beginning Balances	Tax Levy	Total Revenues
74-75	371	944	26,383		18,958	45,341	37,657	22,573		60,230	
75-76	377	985	28,817		21,215	50,032	26,817	43,881		70,698	
76-77	399	1,026	30,085		9,536	39,621	36,557	40,376		76,933	
77-78	406	1,067	30,461		27,678	58,139	27,244	44,363		71,607	
78-79	418	1,008	36,904		18,476	55,380	28,956	29,177		58,133	
79-80	460	1,150	42,700		31,500	74,200	68,573	12,300		80,873	
80-81	504	1,260	46,970	11,052 ¹	22,314	80,266	36,288	17,257	11,052 ¹	80,266	
81-82	548	1,370	51,667	11,052	22,786	85,505	39,456 ²	19,328	11,052	85,505	
82-83	592	1,480	56,833	11,052	25,720	93,605	45,624	21,260	11,052	93,605	
83-84	636	1,590	62,517	11,052	22,331	95,900	45,792	23,387	11,052	95,900	
84-85	680	1,700	68,768	11,052	21,586	101,406	48,960	25,725	11,052	101,406	

1. Assumes \$191,000 in 40 year maturity bonds, 5% interest sold to finance improvements. Repayment raised through taxes.

2. Raise water rate from \$4.00 minimum to \$5.00 minimum

2. Attempt to obtain early approval for five percent financing of Priority A improvements.
3. Take steps to obtain voter authorization to sell \$191,000 in general obligation bonds.

CHAPTER 8

SYSTEM OPERATION

A. SUMMARY

The city may start good system management by adopting standards for water system construction and preparing good system maps. The maps should be updated annually. Suggestions for further management improvements include:

1. Keeping better operations records.
2. Systematic meter testing and maintenance.
3. Adoption by ordinance of a main extension policy.

Particularly important are good well records. Critical well information should be analyzed annually by the city engineer so that declining well capacity can be detected early and water shortages averted.

B. RECORDS

The city does not have a detailed large scale map showing portions of the water system in detail other than the map prepared for this study. A sound investment for the city would be the compilation of a complete water system utility map. A scale of 1"=100' would be sufficient detail for most maintenance, operation and planning purposes.

They must, however, be kept up to date or the investment made in them will have gone for nothing in a very short time. It is recommended that these system maps be updated at least every year. Revisions can probably be most easily made by keeping at least one set of maps in the water superintendent's office on which all revisions are clearly marked as the system changes are made. Each winter, the reproducible map can be updated and the cycle begun again.

In addition to the pipe locations, size, valves, etc. usually shown on these maps, it will also be helpful to add data on:

- date of installation
- location and type of major repairs
- location of any known leaks, freezing problems or low pressure complaints
- any gate or other valves which are normally closed.
- any unusual fittings or valves; for example, valves which turn clockwise to open
- the number of turns for valves from full closed to full open
- details of unusual connections such as connections to privately owned water or fire protection systems
- the location of any cross connection control devices

As was mentioned in Chapter 4, the basic data for system planning comes primarily from operating records. It is always desirable to know what past production of the system's sources has been, what the average day, maximum day, and peak day demands on the system were, and how they varied.

The following list is suggested as desirable with the items marked with an asterisk believed to be most important.

TABLE 8-1
WATER SYSTEM RECORDS

Record	Recording Method	Frequency
*Source(s) of supply	Meter	Daily
Test pumping wells	Meter and report	Every 3 months
Leaks/repairs	Leak report	As needed
Trouble calls	Service call report	As needed
Meter testing	Test report	Continuous program
*Bacteriological samples	Laboratory report	Monthly
*Chemical analysis	Laboratory report	Every 2 years

1. The number and frequency is determined by U. S. Environmental Protection Agency, Primary Drinking Water Standards.
2. See text, Section F.

C. METER TESTING AND MAINTENANCE

Presently the water service meters are read once every month. As the service meter is the cash register of the water utility, it is important that meters be tested, repaired and recalibrated on a regular basis. This assures both the city and its customers of accurate measurement of water use.

A program of regular maintenance of meters is recommended. The larger meters in the system, though fewer in number, represent significant revenue errors if they are inaccurate. Such meters should, therefore, be checked more frequently. The following schedule represents typical practice in the Willamette Valley.

TABLE 8-2
METER TESTING FREQUENCY

Meter Size	Test Method	Frequency
5/8"x3/4"	Shop test	5 to 10 years
1"	Shop test	5 to 10 years
1-1/2"	Shop test	5 to 10 years
2"	Field test	1 to 2 years
Larger than 2"	Field test	Annually

The city should set up a meter test bench so that about eight to ten meters per month can be tested for accuracy. See AWWA manual M-6 for further information. Some meters will require repair. Very likely, it will be less expensive for the city to have a meter repair company make repairs rather than have City staff try to repair meters.

D. STANDARDS

In order to insure orderly system growth, the city should adopt standards for public works construction. In general, these standards will require high quality, long lasting materials be used for water system construction.

Other standards and manuals of practice are available which may be useful to the City. The American Water Works Association (AWWA) has several manuals which may be of interest, including the following:

AWWA Manual M-5	Water Utility Management
AWWA Manual M-6	Water Meter Selection and Testing
AWWA Manual M-8	A Training Course in Water Distribution
AWWA Manual M-14	Cross Connection Control
AWWA Manual M-17	Fire Hydrants
AWWA Manual M-21	Groundwater
AWWA Manual M-22	Service Lines and meters

E. MAIN EXTENSION POLICIES

In Chapter 7, a policy was suggested for the extension of water mains. Major main lines should be installed in conformance with the adopted master plan. The city should adopt by ordinance a policy of requiring developers and others

to install mains per the master plan and committing the city to paying the cost for sizing over eight inches, except in industrial areas. If large lines are required within an industrial development, the developer should pay all pipe costs.

The essential elements of such a policy are listed below:

- The policy would require that any main extension proposed be consistent with the city's adopted water master plan.
- The policy would apply only to those mains which are required by the master plan to be larger than eight inches inside diameter. Smaller lines would be installed and paid for by the developer or other persons requesting or benefiting by the extension.
- The policy should provide a means for determining the difference in cost between the line actually installed and the cost of the same length of eight inch line. (Diameter Ratio formula)
- The Council should be allowed considerable latitude in the making of agreements with private parties as to the sharing of such costs.
- The policy should provide for both loans in aid of construction and grants in aid of construction with reasonable payback periods and administrative charges, all to be determined by the Council.

F. WELL RECORDS

The most critical portions of your system are the wells. If any of the primary wells went dry or decreased substantially in flow, the entire system could be in trouble. By keeping good consistent records on the wells, impending well problems may be learned before the problems become critical.

We suggest the following records be kept for wells:

1. Amount of water pumped each day.
2. Static water level in well. Measure after pump has been off for 30 minutes.
3. Amount of water pumped in gallons per minute after running pump one hour.
4. Water level in well after pump has been running one hour.

The records 2, 3, and 4 above should be taken every three months plus once per month during July, August and September. A log book kept in each pumphouse is suggested. The well record information should be given to the city engineer each October for analysis.

APPENDIX A

INSURANCE SERVICES OFFICE REPORT

The class is based on a total maximum of 5,000 points of deficiency as follows:

RELATIVE CLASS POINTS OF DEFICIENCY

First, 1 - 500
 Second, 501 - 1000
 Third, 1001 - 1500
 Fourth, 1501 - 2000
 Fifth, 2001 - 2500
 Sixth, 2501 - 3000
 Seventh, 3001 - 3500
 Eighth, 3501 - 4000

Ninth Class: 4001-4500 or receiving less than 4001 points but having no recognized water supply.
 Tenth Class: More than 4500 points or without a recognized water supply and having a fire department grading over 1755 or with a water supply and no fire department or with no fire protection.

RELATIVE VALUES

	Points
Water Supply	1,950
Fire Department	1,950
Fire Service Communications	450
Fire Safety Control	650
TOTAL	5,000

Additional points of deficiency are applied under Climatic Conditions where these are in excess of the normal for the United States, and under Divergence where the gradings of Water Supply and Fire Department are greatly different.

INSURANCE SERVICES OFFICE

O R E G O N STATE OFFICE

SUMMARY OF GRADING

GRADING SCHEDULE FOR MUNICIPAL FIRE PROTECTION (1974 Edition)

Date Graded: September 1975 City or District: City of Dundee
Total Deficiency: 2,419 Points. Graded by: A.Nisbet Engineering Representative
Protection Class 5

WATER SUPPLY

<u>Item</u>	<u>Assigned Points</u>
1. Adequacy of Supply Works	<u>0</u>
2. Reliability of Source Supply	<u>15</u>
3. Reliability of Pumping Capacity	<u>0</u>
4. Reliability of Power Supply	<u>6</u>
5. Condition, Arrangement, Operation, and Reliability of System Components	<u>25</u>
6. Adequacy of Mains	<u>28</u>
7. Reliability of Mains	<u>55</u>
8. Installation of Mains	<u>32</u>
9. Arrangement of Distribution System	<u>41</u>
10. Additional Factors and Conditions Relating to Supply and Distribution	<u>1</u>
11. Distribution of Hydrants	<u>249</u>
12. Hydrants - Size, Type and Installation	<u>19</u>
13. Hydrants - Inspection and Condition	<u>34</u>
14. Miscellaneous Factors and Conditions	<u>82</u>
Total	<u>587</u>

FIRE DEPARTMENT

1. Pumpers	<u>0</u>
2. Ladder Trucks	<u>3</u>
3. Distribution of Companies and Type of Apparatus	<u>0</u>
4. Pumper Capacity	<u>34</u>
5. Design, Maintenance, and Condition of Apparatus	<u>76</u>
6. Number of Officers	<u>46</u>
7. Department Manning	<u>148</u>
8. Engine and Ladder Company Unit Manning	<u>107</u>
9. Master and Special Stream Devices	<u>26</u>
10. Equipment for Pumpers and Ladder Trucks	<u>23</u>
11. Hose	<u>17</u>
12. Condition of Hose	<u>10</u>

<u>Item</u>	<u>Assigned Points</u>
13. Training	218
14. Response to Alarms	0
15. Fire Operation	218
16. Special Protection	0
17. Miscellaneous Factors and Conditions	56
Total	1002

FIRE SERVICE COMMUNICATIONS

1. Communication Center	15
2. Communication Center Equipment and Current Supply	118
3. Boxes	60
4. Alarm Circuits and Alarm Facilities Including Current Supply at Fire Stations	29
5. Material, Construction, Condition, and Protection of Circuits	13
6. Radio	2
7. Fire Department Telephone Service	28
8. Fire Alarm Operators	0
9. Conditions Adversely Affecting Use and Operation of Communication Facilities and the Handling of Alarms	3
10. Credit for Boxes Installed in Residential Districts	(-) 0
Total	271

FIRE SAFETY CONTROL

1. Flammable or Compressed Gases	15
2. Flammable or Combustible Liquids	96
3. Special Hazards	109
4. Miscellaneous Hazards	113
5. Supplemental Fire Prevention Activities	32
6. Building Laws	57
7. Electricity	32
8. Heating and Ventilating Installations	52
Total	506

ADDITIONAL DEFICIENCIES

1. Adverse Climatic Conditions	19
2. Other Adverse Conditions or Occurrences	30
3. Divergence Between Water Supply and Fire Department	4
Total	53

SUMMARY OF DEFICIENCY POINTS

WATER SUPPLY	587
FIRE DEPARTMENT	1002
FIRE SERVICE COMMUNICATIONS	271
FIRE SAFETY CONTROL	506
ADDITIONAL DEFICIENCIES	53
Total Deficiency	2419

RECOMMENDATIONS

The attached recommendations are offered to assist officials in planning improvements in the fire protection facilities. Since you have the final decision on any improvement program, we have listed several suggestions. We have not included every item for which a deficiency is charged but have attempted to cover the heaviest deficiency items.

We would like to emphasize that even a partial improvement in any of the items could provide a beneficial effect in the grading. It is possible to achieve a better protection class by partial improvement in many items or major improvement in a few important items.

If after reviewing these recommendations officials believe they can accomplish selected improvements, we can estimate the effect those improvements would have on the grading.

If work on these improvements is not started within one year, we reserve the right to review this information for conformity with standards in use at that time. These recommendations are made for fire insurance rating or grading considerations only and no representations or warranties of any kind are made or intended.

Public Protection Department
INSURANCE SERVICES OFFICE of Oregon

WATER SUPPLY:

1. That, in addition to the present records and plans, the following be added as part of the records system. All plans and vital records should be kept up to date, in duplicate and safely filed to avoid a total loss in event of a catastrophe. MAINS: size, location, depth of bury, type of construction, date installed and fittings, leaks, breaks and important repairs. SUPPLY WORKS: plans and details of each feature. GATE VALVE BOOK: detail of size, tied-in location, construction, inspection and condition including valves closed and direction of rotation. CONSUMPTION: production (master meters, etc.), sales and losses, number of services-metered and otherwise. HYDRANTS: size, type, construction, branch details, inspection and condition.

The American Water Works Association's Manual 8, A Training Course In Water Distribution, is a good guide to use for a records system.

2. That plans be made to build up to the supply and distribution system so that it will supply the recommended fire flow and five day's maximum consumption with the worst possible single break in the system.
3. That valves be checked for proper operation and carefully inspected at least annually; the more important valves should be inspected more frequently. Records of inspections and repairs should be maintained.
4. That the new arterial system be tied into the old system at every possible location.
5. That additional hydrants be installed in those areas not property protected as follows: (a) in high value districts, one hydrant for each 126,000 square feet; (b) in residential districts, one hydrant for each 160,000 square feet.
6. That all hydrants be kept in good mechanical condition. Hydrants should be thoroughly inspected at least twice annually, the necessary repairs made and records kept of the inspections.

FIRE DEPARTMENT:

1. That additional firefighters be enrolled in the fire department in order to obtain a greater response at all times.
2. That the total department pumper capacity be increased to 2,500 gpm. In

addition, sufficient reserve capacity is recommended to maintain this total in event that the department's largest pumper is out of service.

3. That the pumpers be tested annually from draft in accordance with the methods prescribed in the pamphlet, Fire Department Pumper Tests and Fire Stream Tables, published by the Insurance Services Office.
4. That powerful and special stream appliances, foam equipment and material, minor equipment, emergency equipment and salvage equipment be provided and carried on the apparatus in accordance with the current edition of the National Fire Protection Association's Standard No. 19, Automotive Fire Apparatus.
5. That there be 2,400 feet of 2½-inch hose on hand for each of two pumpers and 1,200 feet of 2½-inch loaded on a reserve pumper.
6. That regular drills be held twice a month under charge of the chief or an experienced drillmaster. These to include engine, hose, ladder and salvage work. Fire methods and plan of attack on various buildings should be discussed at monthly meetings or instead of drills in case of inclement weather.

That the department participate in the firemen training programs conducted by the various State organizations.

7. That complete records on all fire department operations and activities be kept.

Good reference material can be found in the American Insurance Association's Special Interest Bulletin No. 152, Fire Department Records, and the National Fire Protection Association's Pamphlet 4, Organization for Fire Services.

FIRE SAFETY CONTROL:

1. That the latest edition of the Fire Prevention Code or the Uniform Fire Code be adopted and provisions made for strict enforcement.

March 10, 1976

Public Protection Department
INSURANCE SERVICES OFFICE of Oregon

FIRE FLOW TESTS

✓D tests: System consumption rate during tests 0.14 MGD; Time of day 1:00 to 3:00 p.m.

*DISTRICTS.

C - Commercial
SC - Shopping Center
IND - Industrial
RES - Residential
INS - Institutional
** - Single Risk (use with one of above)

ISO-PRO 810 (1-73)

Material referenced in the recommendations may
be obtained from the following sources:

American Insurance Association

85 John Street
New York NY 10038

American Water Works Association

Publications Sales
6666 West Quincy Avenue
Denver CO 80235

Insurance Services Office

Municipal Survey Service
160 Water Street
New York NY 10038

National Fire Protection Association

Publications Service
470 Atlantic Avenue
Boston MA 02210

APPENDIX B
EXISTING WELL DATA

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

RECEIVED
OCT 21 1971

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

Do not write above this line)

State Well No. 313W-21

State Permit No. _____

(1) OWNER:

Name State of Oregon
Address Salem, Oregon 97310

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒
8" Diam. from _____ ft. to 62' 10" ft. Gage .250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Size of perforator used _____

Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Edwards
Yield: 180 gal./min. with 83 ft. drawdown after 4 hrs.
7-1 60 - 8' 6" PL 30 min
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 29' ft.
Diameter of well bore to bottom of seal 16-3/4" in.
Diameter of well bore below seal 8" in.
Number of sacks of cement used in well seal 18 sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____
Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Marshall Driller's well number 7113
Section 27 T. 35 R. 34 W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 20' ft.
Static level _____ ft. below land surface. Date _____
Artesian pressure 11# lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 103' 9" ft. Depth of completed well 103' 9" ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
topsoil	0	2	
loam	2	7	
loess	7	52	
soft loess	52	54	
gray loess	54	74	
black loess	74	82	
gray loess	82	93	
gray loess	93	97	
gray loess	97	103' 9"	
Static	0	7	26'
well water level	7	45	26'
5' to 10' of gravel	45	95	0'
gravel	95	103' 9"	5' 3" m

Work started 5-28 1971 Completed 7-18 1971

Date well drilling machine moved off of well 7-14 1971

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Edgar J. Mullin Date 9-5, 1971
(Drilling Machine Operator)

Drilling Machine Operator's License No. 581

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Milo Schneider Eng Co.
(Person, firm or corporation) (Type or print)

Address Star Rt. 1 Box 97 St. Paul, Ore.

[Signed] Milo Schneider
(Water Well Contractor)

Contractor's License No. 527 Date 10-1, 1971



STATE ENGINEER

WATER RESOURCES DEPARTMENT

1178 CHEMEKETA STREET N.E. • SALEM, OREGON • 97310 • Phone 378-3739

TOM McCALL
GOVERNOR

July 1, 1971

CHRIS L. WHEELER
State Engineer

File No.

Milo Schneider Equipment Co.
Star Route, Box 97
St. Paul, Oregon 97137

Dear Sir:

Reference is made to your letter of June 30, 1971 requesting special standards for the City of Dundee well located in Section 27, Township 3 South, Range 3 West, W.M., Yamhill County.

Your letter and attached preliminary well log indicates that the well was constructed with 12 inch casing extending to a depth of 21 feet 5 inches and 8 inch casing extending from two feet three inches above land surface to 24 feet 8 inches below land surface. The log indicates that top soil and boulders were penetrated to a depth of 7 feet and that basalt was encountered from 7 feet to a total depth of 103 feet 9 inches. The static water level was listed at 20 inches below land surface from 0 to 7 feet of penetration and remained at that static level until at which time the well began to flow a small amount.

⇒ YAHH
4561

Your letter of June 30, 1971 indicates that you will pull the 12 inch casing and grout between the 12 inch casing and 8 inch casing with cement grout. Your letter also indicates that if possible you will drive the 8 inch casing to a greater depth.

You are hereby granted permission to construct said well with a cement grout seal extending to at least 21 feet 5 inches. Well construction standards applying to additional standards for the construction of artesian wells are hereby waived. If surface or subsurface leakage should develop during the future, you may be required to return to the well site and case and seal the subject well to a depth of 93 feet and correct all well deficiencies. In the event the City of Dundee should wish to deepen the well

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OCT 21 1971

STATE ENGINEER
SALEM, OREGON

Milo Schneider

-2-

July 1, 1971

at some future date, it will be necessary to correct the wells deficiencies in order to comply with the artesian standards.

Very truly yours,

William B. McCall
William B. McCall
hydrogeologist

WBM:cjs

cc: Clayton J. Gardner
Watermaster District 1
Washington County Courthouse
Hillsboro, Oregon 97123

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SALEM, OREGON

STATE ENGINEER
Salem, Oregon

OBSERVATION WELL
Well Record

YAMH 4547 ucc
STATE WELL NO. 3/3W-26G1
COUNTY Yamhill
APPLICATION NO. G-1217

OWNER: City of Dundee / M. Miller Recorder MAILING ADDRESS:

LOCATION OF WELL: Owner's No. CITY AND STATE:

1/4 1/4 Sec. 21 T. 3 S. R. 3 W. W.M.

Bearing and distance from section or subdivision

corner

Altitude at well 40.7 (impossible) (400.7) 2

TYPE OF WELL: Drilled Date Constructed Nov. 56

Depth drilled 385 Depth cased 96



Section

CASING RECORD:

16" 0 to 90 feet. Drilled in solid rock 90 to 385'

FINISH:

AQUIFERS:

WATER LEVEL:

68'

PUMPING EQUIPMENT: Type H.P.
Capacity G.P.M.

WELL TESTS:

Drawdown ft. after hours G.P.M.

Drawdown ft. after hours G.P.M.

USE OF WATER Municipal Temp. °F. 19

SOURCE OF INFORMATION M. Miller, Recorder

DRILLER or DIGGER J. T. Miller Box 198 Aurora

ADDITIONAL DATA:

Log X Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

STATE ENGINEER
Salem, Oregon

State Well No. 3/3W-26G1
County Yamhill
Application No. G-1217

Well Log

Owner: City of Dundee / M. Miller recorder Owner's No. _____

Driller: J. T. Miller Box 196, Aurora Date Drilled Nov. 1956

CHARACTER OF MATERIAL	(Feet below 'and surface)		Thickness (feet)
	From	To	
Surface	0	3	3
Tough yellow clay	3	17	14
Red clay and some small rock	17	47	30
Large boulders and soft yellow clay	47	62	15
Volcanic wash	62	75	13
Some rock and dark clay	75	85	10
Yellow clay, soft rock water est. 80 gpm.	85	92	7
Hard black rock	92	108	16
Hard red clay	108	110	2
Red volcanic rock	110	120	10
Red hard rock	120	130	10
Black rock	130	154	24
Gray rock	154	174	20
Black rock with boulders	174	182	8
Real hard black rock	182	193	11
Soft black rock water 20 gpm.	193	196	3
Soft basalt shale	196	213	17
Shale with rock streaks	213	223	10
Black rock	223	225	2
Broken rock and shale	225	235	10
Gray hard rock	235	245	10
Broken rock and black, blue and green shale	245	250	5
Black hard rock	250	255	5
Broken rock, pretty hard	255	260	5

State Well No. 3/3W-26G1
County Yamhill
Application No. _____

Owner: City of Dundee / M. Miller recorder Owner's No.

Driller: J. T. Miller Box 196, Aurora Date Drilled

[illegible]

ORIGINAL
File Original and
Duplicate with the
STATE ENGINEER,
SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON

State Well No.

3/3W-2661

State Permit No.

6 1263

(1) OWNER:

Name City of Dundee STATE ENGINEER

Address Dundee Oregon

(2) LOCATION OF WELL:

County Yamhill Owner's number, if any—

2 W 1/4 NE 1/4 Section 26 T. 2 S. R. 2 W. W.M.

Bearing and distance from section or subdivision corner

TYPE OF WORK (check):

Well ☐ Deepening ☒ Reconditioning ☐ Abandon ☐
andonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒ Rotary ☐ Driven ☐
ation ☐ Test Well ☐ Other ☐ Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(5) TYPE OF WELL:

(6) CASING INSTALLED:

Threaded ☐ Welded ☐

" Diam. from _____ ft. to _____ ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

SIZE of perforations in. by in.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed ☐ Yes ☐ No

Manufacturer's Name _____

Model No. _____

Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Well gravel packed? ☐ Yes ☐ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

Was a surface seal provided? ☐ Yes ☐ No To what depth? _____ ft.

Material used in seal—

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ Depth of strata _____

Method of sealing strata off

(10) WATER LEVELS:

Static level _____ ft. below land surface Date _____

Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____

[Signed] _____ Date _____, 1960

(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Ballor test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:

Diameter of well _____ inches.

Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Open	0	380
Flint & sand	380	437
gravel	437	452
Flint	452	471

Reduced to 8 in. at
390 ft

Work started 2/22 1960 Completed 3/1 1960

(13) PUMP:

Manufacturer's Name _____

Type: _____ H.P. _____

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME George Zent

(Person, firm, or corporation) (Type or print)

Address 4200 NE 11th St

Driller's well number _____

[Signed] _____

(Well Driller)

License No. 120 Date 4-12 1960

NOTICE TO WATER WELL CONTRACTOR:
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

RECEIVED
NOV 27 1972
STATE OF OREGON
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
(Please type or print)
(Do not write above this line)

State Well No. 35/2 W-30
State Permit No. _____

(1) OWNER:

Name City of Dundee
Address Dundee, Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
12" Diam. from 0 ft. to 115 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Millknife

Size of perforations 1/2 in. by 3 in.
56 perforations from 62 ft. to 66 ft.
64 perforations from 98 ft. to 103 ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? driller

Yield: 110 gal./min. with 26 ft. drawdown after 24 hrs.

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement grout

Well sealed from land surface to 29 ft.

Diameter of well bore to bottom of seal 25 in.

Diameter of well bore below seal 25 in.

Number of sacks of cement used in well seal 5 yds. _____ sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons _____

of water _____ lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 3/4

Gravel placed from 29 ft. to 115 ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number _____
1/4 1/4 Section 30 T. 3S R. 3W W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 36 ft.

Static level 29 ft. below land surface. Date 10/30/72

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing _____

Depth drilled 115 ft. Depth of completed well 115 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Surface	0	4	
Brown sandy clay	4	36	
Brown gravel	36	45	25
Brown sand	45	54	
Blue clay	54	62	
Blue sandy shale	62	65	25
Blue clay	65	98	
Blue sandy clay	98	102	25
Brown clay	102	115	

Work started October 10 1972 Completed October 30 1972

Date well drilling machine moved off of well October 31 1972

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] John T. Miller Date Nov 27, 19 72
(Drilling Machine Operator)

Drilling Machine Operator's License No. 26

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name John Truman Miller
(Person, firm or corporation) (Type or print)

Address P O Box 341 Hubbard, Oregon 97032

[Signed] John T. Miller
(Water Well Contractor)

Contractor's License No. 277 Date November 27, 19 72

WATER WELL REPORT

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date
of well completion.

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. _____

State Permit No. _____

OWNER:

Mr. ARTHUR Pruitt

Address 910 S.W. Alder
Hundee, Ore. 97715

TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

abandonment, describe material and procedure in Item 12.

TYPE OF WELL:

Artesian ☒ Driven ☐
Bore ☐ Jetted ☐
Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

Diam. from 4 in. ft. to 77 ft. Gage 220

Diam. from _____ ft. to _____ ft. Gage _____

Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used _____

Number of perforations _____ in. by _____ in.

Perforations from _____ ft. to _____ ft.

Perforations from _____ ft. to _____ ft.

Perforations from _____ ft. to _____ ft.

SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____

Type _____ Model No. _____

Slot size _____ Set from _____ ft. to _____ ft.

Slot size _____ Set from _____ ft. to _____ ft.

WELL TESTS:

Drawdown is amount water level is lowered below static level

Is a pump test made? ☐ Yes ☒ No If yes, by whom?

Flow: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Flow: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Flow: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Flow: 100 gal./min. with 80 ft. drawdown after 2 hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

CONSTRUCTION:

Well seal—Material used CEMENT

Well sealed from land surface to 77 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 19 sacks

How was cement grout placed? (Grout pump)

Grout mixture 7 parts

Grout

Is a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.Do any strata contain unusable water? ☐ Yes ☒ No

Depth of water _____ depth of strata _____

Method of sealing strata off _____

Is well gravel packed? ☐ Yes ☒ No Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number _____

NE 1/4 Section 26 T.33 R.31W W.M.

Bearing and distance from section or subdivision corner

2000' N. 1/2 E. 190

(11) WATER LEVEL: Completed well.

Depth at which water was first found 109 ft.

Static level 39 ft. below land surface. Date 6/20

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 160 ft. Depth of completed well 160 ft.

Formation: Describe color, texture, grain size and structure of materials and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	EWL
Red Top Soil	0	7	
CLAY Red	7	60	39
SANDSTONE, Red Brown	60	72	
SANDSTONE, Brown	72	90	
SANDSTONE, Gray-Brown w/ Basalt Boulders			
Permeable fractured	90	120	
Basalt, Gray Hard	120	132	
SANDSTONE, Brown	132	152	
BASALT, Gray Hard	152	160	
Encountered water at 109'			

Work started 6/29 1979 Completed 7/5 1979

Date well drilling machine moved off of well 7/4 1979

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

(Signed) Thomas S. Bryant Date 7/5 1979
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1247

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name BRYANT Well Drilling
(Person, firm or corporation) (Type or print)

Address Rt. 2 Box 166 Newberg, Ore. 97132

(Signed) Thomas S. Bryant
(Water Well Contractor)

Well #5

Contractor's License No. 703 Date 7/5 1979

WATER WELL REPORT

WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date
of well completion.

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. _____

State Permit No. _____

OWNER:

me MR. ARTHUR PRUITT 2nd Well
dres 910 S.W. Alder St
Dundee, Ore 97115

TYPE OF WORK (check):

Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
abandonment, describe material and procedure in item 12.

TYPE OF WELL:

ary ☒ Driven ☐
ole ☐ Jetted ☐
E ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

78 * Diam. from 41 ft. to 58 ft. Gage 250
* Diam. from _____ ft. to _____ ft. Gage _____
* Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☒ No.

De of perforator used _____

De of perforations _____ in. by _____ in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____ Model No. _____
in. _____ Slot size _____ Set from _____ ft. to _____ ft.
in. _____ Slot size _____ Set from _____ ft. to _____ ft.

WELL TESTS:

Drawdown is amount water level is
lowered below static level

a pump test made? ☐ Yes ☒ No If yes, by whom?
d: _____ gal./min. with _____ ft. drawdown after _____ hrs.

R- 140 gal./min. with 80 ft. drawdown after 2 hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

CONSTRUCTION:

seal—Material used Cement
sealed from land surface to 58 ft.
meter of well bore to bottom of seal 10 in.
meter of well bore below seal 6 in.
ber of sacks of cement used in well seal _____
was cement grout placed? Grout pumped packs
Arthur of Annular space
flow grout pipe

a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.

any strata contain unusable water? ☐ Yes ☒ No

of water? _____ depth of strata _____

thod of sealing strata off _____

well gravel packed? ☐ Yes ☒ No Size of gravel: _____

ivel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number _____
NE 1/4 SE 1/4 Section 26 T. 35 R. 310 W.M.

Bearing and distance from section or subdivision corner

2100 W.N. of 1301 110

(11) WATER LEVEL: Completed well.

Depth at which water was first found 115 ft.

Static level 32 ft. below land surface. Date 7/10/77

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 140 ft. Depth of completed well 140 ft.

Formation: Describe color, texture, grain size and structure of materials
and show thickness and nature of each stratum and aquifer penetrated
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
TOPSOIL, BROWN	0	5	
CLAY, RED	5	55	
SANDSTONE, BROWN	55	61	
SANDSTONE, GRAY	61	80	
SANDSTONE, GRAY-BROWN			
W/ BASALT Boulders			
interbedded conglomerate	80	128	37
Encountered water			
at 115'			
SANDSTONE, BROWN SOFT			
W/ mineral deposit	128	132	
SANDSTONE, GRAY-BROWN			
fractured	132	140	

Work started 7/9 19 77 Completed 7/12 19 77

Date well drilling machine moved off of well 7/12 19 77

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] Thomas E. Bryant Date 7/12 19 77
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1247

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name DRYANT WELL Drilling

(Person, firm or corporation) (Type or print)
Address 112 204x 166 N. Main, Corvallis

[Signed] Thomas E. Bryant

(Water Well Contractor) Well # 6

Contractor's License No. 703 Date 7/12 19 77

WATERLAB

2609 12th S.E.
Salem, Oregon 97302
(503) 363-0473

November 9, 1979

TEST RESULTS

TO: Jim Majors Water System
P.O. Box 112
Amity, OR 97101

DATE COLLECTED: 10/3/79

COLLECTED BY: Customer

SOURCE: Well #1 Lab Report # P1887-79

Well #2 Lab Report # P1888-79

<u>Test Performed</u>	<u>Suggested Maximum*</u>	<u>P1887-79</u>	<u>P1888-79</u>
Alkalinity	N.A.	18	25
Calcium	N.A.	9.6	9.6
Chloride	250.0	4.9	5.9
Copper	1.0	less than 0.1	less than 0.1
Hardness as Calcium carbonate	N.A.	32	32
Iron, total	0.30	less than 0.01	0.20
Magnesium	N.A.	1.9	1.9
Manganese	0.050	less than 0.01	less than 0.01
Nitrite	N.A.	less than 0.01	less than 0.01
pH, pH units	N.A.	7.559	7.548
Silica	N.A.	37	39
Sodium	N.A.	11.9	0.08
Sulfate	250.0	less than 0.1	less than 0.1
Solids, Total	1000.0	169	133
Solids, Volatile	N.A.	53	20
Zinc	5.0	less than 0.1	less than 0.1

*Per OAR Ch. 333 State of Oregon Health Division

All amounts listed in milligrams per liter, except pH.

N.A. = Not applicable

UMPQL \ RESEARCH CO. IPANY

P. O. Box 791
Myrtle Creek, Oregon 97457

626 N.E. Division Street
Telephone (503) 863-5201

EPA INTERIM PRIMARY DRINKING WATER STANDARDS

NAME Waterlab DATE & TIME COLLECTED 10/3/79 2:00 p.m.
ADDRESS 2609-12th Street S.E., Salem, OR 97302 DATE RECEIVED 10/5/79
WATER SOURCE Jim Majors' W.S., Well #2 DATE REPORTED 10/29/79
COLLECTED BY: Jim Majors URC SAMPLE # 91005-3

TEST	TEST METHOD ¹	UNITS	LIMITS	TEST RESULTS	DATE OF ANALYSIS	ANALYST
ARSENIC	SM 404 C	MG/L	0.05	ND@ 0.01	10/8/79	MJS
BARIUM	SM 303 A	MG/L	1.	ND@ 0.1	10/8/79	MJS
CADMIUM	SM 305 A	MG/L	0.01	ND@ 0.005	10/24/79	MJS
CHROMIUM	SM 307 A	MG/L	0.05	ND@ 0.02	10/8/79	MJS
LEAD	SM 311 A	MG/L	0.05	ND@ 0.01	10/24/79	MJS
MERCURY	SM 315 A	MG/L	0.002	ND@ 0.001	10/8/79	MJS
NITRATE-NITROGEN	ASTM D992-71	MG/L	10.	0.1	10/23/79	MJS
SELENIUM	SM 318 C	MG/L	0.01	ND@ 0.002	10/8/79	MJS
SILVER	SM 319 A	MG/L	0.05	ND@ 0.01	10/8/79	MJS
FLUORIDE	SM 414A & C	MG/L	1.4 to 2.4	0.1	10/29/79	MJS
ENDRIN	SM 509 A	MG/L	0.0002	Not Tested		
LINDANE	SM 509 A	MG/L	0.004	" "		
METHOXYCHLOR	SM 509 A	MG/L	0.1	" "		
TOXAPHENE	SM 509 A	MG/L	0.005	" "		
2,4-D	SM 509 B	MG/L	0.1	" "		
2,4,5-TP SILVEX	SM 509 B	MG/L	0.01	" "		
pH	SM 424	pH Units		7.2	10/5/79	MJS
SPECIFIC CONDUCTANCE	SM 205	µMHO/CM		86	10/5/79	MJS

¹ EPA = Methods for the Chemical Analysis of Water & Wastes, 1974
SM = Standard Methods for the Examination of Water & Wastewater, 14th Edition
ASTM = ASTM Annual Standards, Part 31
N.D. = None Detectable

APPROVED BY: [Signature]

UMPQL & RESEARCH CO. IPANY

P. O. Box 791
Myrtle Creek, Oregon 97457

626 N.E. Division Street
Telephone (503) 863-5201

EPA INTERIM PRIMARY DRINKING WATER STANDARDS

NAME Waterlab DATE & TIME COLLECTED 10/3/79 2:00 p.m.
ADDRESS 2609-12th Street, S.E., Salem, OR 97302 DATE RECEIVED 10/5/79
WATER SOURCE Jim Majors' W.S., Well #1 DATE REPORTED 10/29/79
COLLECTED BY: Jim Majors URC SAMPLE # 91005-4

TEST	TEST METHOD ¹	UNITS	LIMITS	TEST RESULTS	DATE OF ANALYSIS	ANALYST
ARSENIC	SM 404 C	MG/L	0.05	NDE 0.01	10/8/79	MJS
BARIUM	SM 303 A	MG/L	1.	NDE 0.1	10/8/79	MJS
CADMIUM	SM 305 A	MG/L	0.01	NDE 0.005	10/24/79	MJS
CHROMIUM	SM 307 A	MG/L	0.05	NDE 0.02	10/8/79	MJS
LEAD	SM 311 A	MG/L	0.05	NDE 0.01	10/24/79	MJS
MERCURY	SM 315 A	MG/L	0.002	NDE 0.001	10/8/79	MJS
NITRATE-NITROGEN	ASTM D992-71	MG/L	10.	0.1	10/23/79	MJS
SELENIUM	SM 318 C	MG/L	0.01	NDE 0.002	10/8/79	MJS
SILVER	SM 319 A	MG/L	0.05	NDE 0.01	10/3/79	MJS
FLUORIDE	SM 414A & C	MG/L	1.4 to 2.4	0.2	10/29/79	MJS
ENDRIN	SM 509 A	MG/L	0.0002	Not Tested		
LINDANE	SM 509 A	MG/L	0.004	" "		
METHOXYCHLOR	SM 509 A	MG/L	0.1	" "		
TOXAPHENE	SM 509 A	MG/L	0.005	" "		
2,4-D	SM 509 B	MG/L	0.1	" "		
2,4,5-TP SILVEX	SM 509 B	MG/L	0.01	" "		
pH	SM 424	pH Units		7.2	10/5/79	MJS
SPECIFIC CONDUCTANCE	SM 205	µMHO/CM		74	10/5/79	MJS

¹ EPA = Methods for the Chemical Analysis of Water & Wastes, 1974
SM = Standard Methods for the Examination of Water & Wastewater, 14th Edition
ASTM = ASTM Annual Standards, Part 31
N.D. = None Detectable

APPROVED BY: *[Signature]*

City of Dundee Well Tests

38' static 5/24/78 @ 7:45am

375 gpm @ 91' PL after 6 hrs 10 min
5/11/78 5:10pm

5/11/78

5/2/78

Pumping Level (PL), (feet below ground level)

NOTE: Tests were run on two consecutive days in order to obtain more sustained yield & recovery data.

Recovery Time (minutes after pump shut off)

Gallons per Minute (gpm)

435 gpm @ 119' PL after 5 hrs
5/11/78 4:30pm

460 gpm @ 188' PL after
5/2/78 7:45pm

490 gpm @ 147' PL after 5 hrs
5/1/78 4:00pm (no air)

515 gpm @ 191' PL after 4 hrs 25 min (some air)
5/1/78 3:25pm

SCHNEIDER EQUIPMENT, INC.
21881 RIVER ROAD N. E.
ST. PAUL, OREGON 97137
(503) 633-2666

RECEIVED

AUG 7 1978

WATER RESOURCES DEPT.
SALEM, OREGON

Material	From	To
Clay, brown silty	0	27
Gravel, small pea size + coarse sand	27	35
Gravel, pea + coarse sand up to 3"	35	53
Gravel, pea size up to 2"	53	60
Clay, green w/ gravel	60	63
Clay, gray	63	77
Clay, gray & brown mixed	77	84
Clay, gray	84	88
Clay, gray & brown mixed	88	114
Clay, gray & powdery white	114	115
Clay, green & brown mixed	115	117
Clay, gray	117	119
Clay, gray & brown mixed	119	135
Clay, gray soft & gritty	135	136
Clay, gray	136	137
Clay, black	137	139
Clay, gray	139	156
Clay, gray & brown mixed	156	167
Clay, gray	167	188
Clay, gray & brown mixed somewhat gritty	188	196
Clay, brown silty somewhat silty	196	201
Clay, gray soft sticky	201	206
Clay, gray & brown mixed	206	217
Clay, blue & brown mixed soft, silty & somewhat gritty	217	220
Clay, black	220	226
Clay, gray	226	240
Clay, brown gritty	240	253
Clay, gray	253	266
Clay, brown silty w/ some fine sand	266	268
Gravel, fine & sand, fine, brown	268	271
Clay, brown soft	271	284
Clay, brown silty soft - somewhat gritty	284	288
Clay, brown	288	313

RECEIVED

AUG 8 1978

WATER RESOURCES DEPT.
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON

within 30 days from the date of well completion.

(Do not write above this line)

RECEIVED NC
OCT 11 1972 WATER WELL REPORT

YAMH
2666

State Well No.

35/2W-30

State Permit No.

(1) OWNER:

Name BEATWRIGHT ENGINEERING INC.
Address 2613 12th ST. S.E.
Salem, Ore. 97302

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 137 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Ball test 12 gal./min. with 53 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water 54 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite
Well sealed from land surface to 40 ft.
Diameter of well bore to bottom of seal 9+ in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Western Ore.
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel: ft.
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Yamhill Driller's well number III
1/4 1/4 Section 30 T. 35 R. 3W W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 70 ft.
Static level 15 ft. below land surface. Date 9/27/72
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"
Depth drilled 137 ft. Depth of completed well 137 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top Soil	0	3	
Brown Clay	3	30	
Greenish Clay	30	35	
Gray Clay	35	68	
Brown Sandy Clay	68	125	
Gray Clay	125	137	

Work started 9/27 1972 Completed 10/3 1972
Date well drilling machine moved off of well 10/3 1972

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] J. J. Terrell Date , 19
(Drilling Machine Operator)

Drilling Machine Operator's License No. 179

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Sw Beck Well Drilling
(Person, firm or corporation) (Type or print)

Address 119 Skyline Dr. Banks, Ore. 97003

[Signed] John W Beck
(Water Well Contractor)

Contractor's License No. 449 Date Oct 5 1972

(USE ADDITIONAL SHEETS IF NECESSARY)

FAILED WELL

SP-4056-119

APPENDIX C
WATER ORDINANCE

ORDINANCE NO. 207

AN ORDINANCE ESTABLISHING CONNECTION FEES AND USER RATES FOR WATER AND SEWER USERS, AMENDING ORDINANCE NOS. 53, 115 and 147 AND AMENDMENTS THERETO, REPEALING ALL OTHER ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH AND DECLARING AN EMERGENCY.

THE CITY OF DUNDEE, OREGON, DOES ORDAIN AS FOLLOWS:

Section 1. Section 3(a) of Ordinance No. 53, as amended, is hereby amended to read as follows:

Section 3. Cost of Water Connection.

(a) That every applicant for water service from the City of Dundee which shall require a new tap or connection with a water main or pipeline in the city water system, or a private line or main, shall, before such connection is made, pay the recorder of the City of Dundee a connection fee of \$800, in addition to the actual cost and expense of materials and labor for making such connection, according to the prevailing schedule as fixed and determined from time to time by the water committee of the council; and that in arriving at and in fixing said schedule for charges, the water committee shall take into consideration whether such tap is located beneath hard surface pavement, within or without the corporate limits of the City of Dundee, the size of the connection desired and such other matters as may properly affect the cost and expense of such installation.

Section 2. Section 9, Subsections (1), (2), (3), (4) and (5), as amended, are hereby amended to read as follows:

Section 9. Water Rates.

(1) Urban residential rates. That the following rates, known as urban residential rates, shall apply to all residential and non-commercial users of water where the place of use is within the corporate limits of the City of Dundee. That the costs of water from the municipal water system furnished each month to users under the urban residential rates aforesaid, within the corporate limits of the City of Dundee, and the amount which such users shall pay to the City of Dundee shall be as follows:

For the first 500 cubic feet or any part thereof in any month, the sum of \$4.00, being the minimum charge.

For the next 3,500 cubic feet, the sum of 25 cents for each 100 cubic feet or part thereof.

For all over 4,000 cubic feet, in any month, the sum of 50 cents per 100 cubic feet or any part thereof.

(2) Rural residential rates. That the following rates, known as rural residential rates, shall apply to all residential non-commercial users of water where the place of use is outside

the corporate limits of the City of Dundee. That the cost of water from the municipal water system furnished each month to residential users from the rural residential rates aforesaid, outside the corporate limits of the City of Dundee, and the amount which such users shall pay to the City of Dundee shall be as follows:

For the first 500 cubic feet or any part thereof, in any month, the sum of \$5.50, being the minimum charge.

For the next 3,500 cubic feet, the sum of 40 cents for each 100 cubic feet or part thereof.

For all over 4,000 cubic feet in any month, the sum of one cent per cubic foot for each cubic foot of water.

That where the measurement of water used is by a master meter situate at the city limits, or an individual meter so situate and serving only one user outside the city limits, said rural residential rates shall be as follows:

The sum of 70 cents per cubic foot for each cubic foot of water measured through said meter; provided, that there shall be paid to the City of Dundee a minimum amount each month in the sum of \$5.50 for each separate residential user served by water measured through said meter.

(3) Commercial rates. That the following rates, known as commercial rates, shall apply to all consumers within or without the corporate limits of the City of Dundee, deriving income, either directly or indirectly from any business where water is supplied from the municipal water system to the City of Dundee, including multiple-family residences, auto courts, apartment courts, apartment houses in which each apartment or family is not metered separately, restaurants, taverns, barbershops, service stations, stores, dryers and/or commercial consumer; and the cost of water to such commercial consumer and the cost of water to such commercial user within the corporate limits of the City of Dundee, and the amount which such users shall pay to the City of Dundee, shall be as follows:

For the first 500 cubic feet or any part thereof in any month, in the sum of \$5.50, being the minimum charge.

For the next 3,500 cubic feet, the sum of 30 cents for each 100 cubic feet or part thereof.

For all over 4,000 cubic feet in any month, the sum of 50 cents per 100 cubic feet or any part thereof.

(4) Special commercial rates. That the following commercial rates shall apply to such commercial accounts, as the term commercial accounts is herein defined, and which may be located within or without the corporate limits of the City of Dundee, as shall request to be placed under such rates by written request addressed to the recorder of the City of Dundee and approved by the water committee of the city council of the City of Dundee; provided, however, that the special commercial users shall not be entitled to the rates hereinafter specified unless they shall use such water continuously for

at least 12 months and shall guarantee to do so in the application for such commercial rates. If metered through a master meter, for the first 4,000 gallons or any part thereof, the charge shall be \$4.50 per month; and for each additional 1,000 gallons or part thereof the charge shall be 25 cents.

(5) Joint users. That the following rates, known as joint rates, shall apply to users of water within or without the corporate limits of the City of Dundee, where the water is being metered through one meter and is being used for both residential and commercial purposes. That the costs of water from the municipal water system furnished each month to joint users under the joint rates, whether within or without the corporate limits of the City of Dundee, and the amount which such joint users shall pay to the City of Dundee, shall be as follows:

For the first 1,000 cubic feet or any part thereof, in any month, the sum of \$8.00, being the minimum charge.

For the next 7,000 cubic feet, the sum of 25 cents for each 100 cubic feet or part thereof. ⁵⁰

For all over 8,000 cubic feet in any month, the sum of 50 cents per 100 cubic feet or any part thereof. ⁵⁰
~~\$1.00~~

Section 3. Section 3(3) of Ordinance No. 115, as amended, is hereby amended to read as follows:

Section 3. Connection Charges.

(3) After the date hereof, all persons desiring or required to connect to the city sewer system or extensions thereof shall, when applying for a sewer connection, pay a connection fee of \$800.

Section 4. Section 3 of Ordinance No. 147 is hereby amended to read as follows:

Section 3. Sewer Charge Rates. The just and equitable charges aforesaid are hereby established, determined and declared to be as follows:

Dundee, Oregon, Sewer User Charges

Type	Monthly Rate
Residential uses:	
A. Single residences	\$5.50
B. Duplexes, triplexes, apartments, motels, hotels and rooming houses and other multiple dwellings	5.50 per unit
Factories and industrial processing plants	5.50 per 9 persons employed
Schools	5.50 per 24 students
Other commercial users not specifically enumerated	5.50

February 15, 1995

CITY OF DUNDEE
PO BOX 201
DUNDEE OR 97115

REFERENCE: Files G-6331 & 58951

Your applications for extension of time to complete work under Permits Number G-6017 and 44462 along with your check in the amount of \$200 have been received. Our Receipts Number 107235 and 107243 are enclosed.

Your request is approved by Special Order Volume 49, Page 12. The time limit for completion of work is extended to October 1, 1997.

Certain water right holders that serve as water suppliers may be required to submit water management and conservation plans at some point in the future. You should be advised that the Water Resources Commission may adopt administrative rules that will require you to prepare and submit such plans in the future.

If you are interested in receiving periodic information concerning the conservation program or the development and adoption of management and conservation rules, please contact the Water Conservation staff at the Salem office of the Water Resources Department.

If you have questions concerning this extension or other water right matters, please call the Water Rights/Adjudication Division. All Divisions of the Department may be reached at the following telephone numbers:

(800) 624-1399 or (503) 378-3739

Sincerely,

A. REED MARBUT, Administrator
Water Rights/Adjudication Division

ARM:jh

Enclosure



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

Name City of Dundee
By PO Box 201
Address Dundee, OR 97115

Date filed October 26th, 1973
Priority April 23, 1974
Action suspended until 9-13 94 Tes

Return to applicant
Date of approval NOV 03 1975

CONSTRUCTION

Date for beginning NOV 03 1976
Date for completion OCT 01 1977
Extended to 10-1-82 10-1-87 - 10/1/92
Date for application of water OCT 01 1978
Extended to 10-1-82 10-1-87 - 10/1/92

PROSECUTION OF WORK

Form "A" filed started
Form "B" filed
Form "C" filed

FINAL PROOF

Work mailed
Proof received
Certificate issued

Application No. G G 6331
Permit No. G G 6017
Certificate No.

Stream Index, Page No. 2-134

FEES PAID

Date	Amount	Received
<u>10-26-73</u>	<u>30.00</u>	<u>371</u>
<u>EXTENSION 11-18-93</u>	<u>100.00</u>	<u>101</u>

\$1 Cert. Fee

FEES REFUNDED

Date	Amount	Check
------	--------	-------

ASSIGNMENTS

Date	To Whom	Address	Volume	Pi
------	---------	---------	--------	----

REMARKS

#2 3/2w-30 115' deep
#4 3/3w-36 201' deep
#1 3/3w-27 skidwell
#3 3/3w-27 172' deep
Card for BC OCT 14 1982
CARD FOR BC OCT 12 1987
FORM 100 JUN 6 1988
CARD FOR C OCT 22 1992

BC 10-1-97

690-10-116

File No. 6-6331

Application for Extension of Time

TO THE WATER RESOURCES DIRECTOR OF OREGON

RECEIVED

NOV 18 1993

WATER RESOURCES DEPT.
SALEM, OREGON

I, City of Dundee _____
Name

PO Box 220 _____
Mailing Address

Dundee OR 97115
City State Zip

record owner of water permit No. 6-6017, do hereby request that the time in which to:

☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1992, be extended to October 1, 1997; and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1992, be extended to October 1, 1997.

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

(1) within the past year _____

(2) prior to this past year Development of well facility, connected to municipal water system.

(3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) _____

(If additional space is required, attach separate sheet)

Derry M. H. CITY ENGINEER
(If signing for a corporation please identify your title)

Dated 11/13/93

MAIL COMPLETED APPLICATION AND STATUTORY FEE
 OF \$100.00 FOR EACH PERMIT TO:

Water Resources Department
 3850 Portland Road N.E.
 Salem, Oregon 97310

OK
 BC 10-1-97
 JES

VEC
 107235
 \$100

EXTENSION CHECKLIST

FILE DOCUMENT - FOR OFFICE USE ONLY

APPLICATION NO: 6.6331 PERMIT NO: 6-6017

DATE: 1-25-74

1. What service area or base was anticipated by the applicant at the time the permit was granted?
2. What water right development steps has the permittee completed to date?
3. Is the permittee currently meeting all conditions of the permit?
4. What is the current use of water under the permit?
5. What percent of the total allowable use under the permit does the current use represent?
6. Have there been any unforeseen events (over which the permittee has no control) which could reasonably have delayed development under the permit?
7. Has there been any change in the market for either water or power since the permit was granted which could have affected the development program under the permit?
8. Has there been any change in demand for water or power since the permit was granted?
9. If the extension request is denied, is the current level of water use under the permit economically feasible?
10. Is there an alternate source of water available at this time?
11. Has use of water under the permit caused an adverse impact on the surface/ground water resource in the area?
12. Have there been claims of injury to other water right holders or water users in the area?

REMARKS:

4TH REQUEST

BC 92-97

OTHER NOTES

C-8781 0.5 CFS 2 SPAS

C-14654 3 GPM SP.

C-8817 0.05 CFS
CHETALAN
CR

C-17145 0.25 CFS STREAM

C-29157 0.10 CFS WELL

C-61757 0.6 CFS WELL
5 & 6

PCL 9-11085 0.3 CFS
~~PER~~
~~1050~~ WELL 7

1. 4 WELLS ICFS MUNI

2. 4 WELLS DRILLED

#1	15 HP	60 GPM
#2	15 HP	110 GPM
#3	10 HP	60 GPM
#4	NONE	Ø

3. YES

4. 250 GPM

5. 50%

6. #4 SAND PROBLEMS

#2 HEALTH DIV. SAND WATER UNSAFE

7. No

8. No

9. No NEW STORAGE SYSTEMS CONSIDERED

10 YES

11/12 NO INFO

BL 10-1-97

1/25 Am

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WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

JUL - 5 1994

WATER RESOURCES DEPT.
SALEM, OREGON

June 30, 1994

Mr. Thomas E. Shook
Water Resources Department
3850 Portland Rd NE
Salem, OR 97310

RE: Dundee Municipal Water Rights
File Reference G-6331 and 58951
JO 441.100.0

Dear Mr. Shook:

This letter is in response to your letters dated January 26 and June 28, 1994 regarding the City's request to extend the time limits of Permits G-6017 and 44462.

Regarding your request for information regarding Permit G-6017, we offer the following, numbered to correspond with the points raised in your letter.

1. Yes, four wells have been drilled at approximately the dates listed below:
 - ▶ Well No. 1 (designated City Well No. 1) - 1971. *YAMH 4521*
 - ▶ Well No. 2 (designated City Well No. 4) - 1973. *YAMH 2460*
 - ▶ Well No. 3 (designated City Well No. 2) - 1973. *YAMH 4551*
 - ▶ Well No. 4 (designated River Well) - 1973. *973*
2. The sizes of the pumps currently installed in the wells are as follows:
 - ▶ Well No. 1 (designated City Well No. 1) - 15 hp.
 - ▶ Well No. 2 (designated City Well No. 4) - 15 hp.
 - ▶ Well No. 3 (designated City Well No. 2) - 10 hp.
 - ▶ Well No. 4 (designated River Well) - None at present.
3. The length and diameter of mainline currently in place in the City of Dundee is listed in the 1993 Water Study submitted to WRD as supplemental information for water right permit under application number G-12568.

RECEIVED

JUL - 5 1994

WATER RESOURCES DEPT.
SALEM, OREGON

June 30, 1994
Mr. Thomas E. Shook
Water Resources Department
Page 2

4. It is estimated that the amount of water diverted from the four wells during peak usage was as follows:

- Permit 4 well #1*
- ▶ Well No. 1 (designated City Well No. 1) - 60 gpm.
 - ▶ Well No. 2 (designated City Well No. 4) - 110 gpm.
 - ▶ Well No. 3 (designated City Well No. 2) - 60 gpm.
 - ▶ Well No. 4 (designated River Well) - None at present.

There have been a number of unforeseen events which have delayed the full development of the wells included in this water right permit. Well No. 4 developed problems with sand entering the well casing and being pumped into the system. The well was taken out of service pending the development of a solution to this problem. However, a more critical problem relates to the new Surface Water Treatment Rules which affect the use of water from aquifers which are potentially under the influence of surface waters. Well No. 2 and 4 are located in the alluvial aquifer adjacent to the Willamette River and have been identified by the Oregon Health Division as being potentially impacted by surface water. In order to use the water from these wells, the City will be required to undertake an extensive and long term testing program to evaluate whether these wells are in fact influenced by surface water. Until this evaluation program is completed, the City cannot use water from these sources without issuing public notices that the water does not conform to the Safe Drinking Water Act requirements. The City is understandably hesitant to use the water under these circumstances due the potential for generating adverse public opinion, and the wells are currently not in use. The City is currently evaluating the appropriate course of action to take regarding these wells. It is not anticipated that this issue will be resolved for several years, and any plans for further development of these wells has been put on hold pending resolution of this matter. The City would like to retain the option of using these wells in the future.

The City is in a similar quandary regarding the development of the surface water source from the Willamette River (permit no. 44462). The Surface Water Treatment Rules have undergone major revisions over the last 5 years, and additional significant changes are pending. The City does not at the present time have the funding available to construct a surface water treatment facility to meet the requirements of these rules. The City is currently pursuing an aggressive program to upgrade their water transmission, distribution and storage systems. It is anticipated that over the next 2-4 years the City will construct new pump stations, reservoirs and transmission mains. Following the completion of these projects, the City will again evaluate the feasibility of developing the surface water source on the Willamette River. As such, the City would like to extend the time allowed for the

June 30, 1994
Mr. Thomas E. Shook
Water Resources Department
Page 3

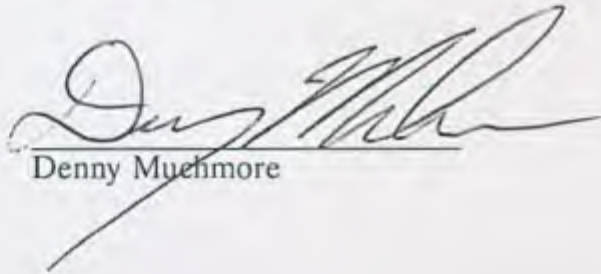
RECEIVED
JUL 15 1994
WATER RESOURCES DEPT.
SALEM, OREGON

development of this water source.

We hope this information along with the information contained in the water study currently on file at WRD under File No. G-12568 will allow you to process the requests for extension.

Sincerely,

WESTECH ENGINEERING, INC.



Denny Muchmore

drm

Enclosure

cc: Mr. Chuck Lund, Dundee Public Works Director
► Ms. Audrey Beaudry, Dundee City Recorder

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CITY OF DUNDEE
ATTN: EVE FOOTE, CITY
ADMINISTRATOR
PO BOX 220
DUNDEE, OR 97115

G 6331

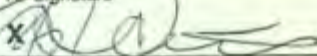
2. Article Number

(Transfer from service label)

7003 3110 0003 1378 3822

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

8/10/04

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☒ No

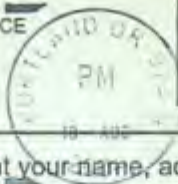
3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

UNITED STATES POSTAL SERVICE



First Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

RECEIVED

AUG 13 2004

WATER RESOURCES DEPT
SALEM, OREGON

WATER RESOURCES DEPARTMENT
725 SUMMER STREET NE SUITE A
SALEM OR 97301-1271

07





Oregon

Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

CERTIFIED MAIL
Return Receipt Requested

August 9, 2004

CITY OF DUNDEE
ATTN: EVE FOOTE, CITY ADMINISTRATOR
PO BOX 220
DUNDEE, OR 97115

REFERENCE: Water Right Application #G-6331 (Permit #G-6017)

Dear Municipal Water Use Permit Extension Applicant:

The Department is currently in the process of evaluating your request for an extension of time on the above referenced municipal water use permit. The Department has determined additional information is necessary in order to evaluate your extension of time request. The information and/or materials listed below must be provided:

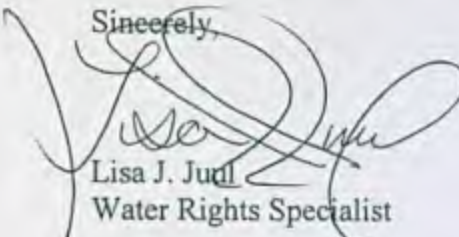
1. **Please fill out and return the enclosed new "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits."** In November 2002, the Department adopted new administrative rules under Chapter 690, Division 315 that govern the processing of Municipal and Quasi-Municipal permit extension requests. Shortly thereafter, the Department assessed your pending permit extension application and determined it did not contain sufficient information to meet the requirements of the new Division 315 standards. On December 18, 2002, the Department sent a letter requiring you to complete the new "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits." On February 24, 2003, the Department received a request from the permit holder to extend the due date to submit the extension application for Permit #G-6331 to September 1, 2003. The Department has not yet received the required extension application. A blank "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" form is enclosed for your use.

Please submit this information to the Department by **November 9, 2004**. If you cannot provide the requested information by this deadline, you must notify the Department in writing, explaining the reason(s) why, and indicate a date certain by which you anticipate the requested information can be supplied.

If, by **November 9, 2004**, the Department has not received the requested information and has not received written notification explaining why the deadline for submittal cannot be met, the Department **will** return your "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" as incomplete and refund all fees paid toward the extension of time request.

If you should have any questions concerning your extension request or the required materials listed above, you may contact me at (503) 986-0808.

Sincerely,



Lisa J. Judd
Water Rights Specialist

Enclosures

cc: Appl #G-6331 (Permit #6017)
Bill Ferber, Watermaster District #16

S:\groups\wr\extensions\Municipal\muni_ext_add'l info\city of Dundee_app. g6331.wpd



February 21, 2003

Fik #G-6331

RECEIVED

FEB 24 2003

WATER RESOURCES DEPT.
SALEM, OREGON

Ms. Lisa J. Juul
Water Rights Specialist
Water Rights Section
Oregon Water Resources Department
158 - 12th Street NE
Salem, Oregon 97301-4172

Re: Water Right Permit Extensions

Dear Ms. Juul:

The City of Dundee is in receipt of several requests from Oregon Water Resources Department (OWRD) for submittal of new applications for extension of time for municipal water use permits, based on the recently adopted administrative rules that govern this process. The requests that have been received to date include the following:

<u>Permit #</u>	<u>Application #</u>	<u>Due Date</u>
S44462 S58951	April 2, 2003	
G6017	G6331	March 18, 2003
G12736G14066	April 6, 2003	

In addition to these, the City has three other water rights that are in the permit stage which we are currently evaluating.

We have just retained Murray, Smith & Associates, Inc. (MSA) to prepare a Water System Master Plan, including the water management and conservation elements to meet OWRD requirements. This planning process will develop the information used to estimate the time that will be needed to fully develop our existing water rights and to prepare the extension applications. The anticipated completion date of this planning effort is June 30, 2003.

We understand from your discussion with Jim Helton of MSA that the due dates for submitting the extension applications can be extended to allow us to complete our planning process. We respectfully request that the due dates for all our water right permit extension applications be extended until September 1, 2003. Please call me at (503) 538-3922 if you have any questions in this regard.

Sincerely,

CITY OF DUNDEE

Eve Foote
City Administrator

cc: Jim Helton, Murray, Smith & Associates, Inc.



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

December 18, 2002

CITY OF DUNDEE
PO BOX 201 - CITY ADMINISTRATOR
DUNDEE OR 97115

REFERENCE: Permit #G6017 (Application File #G6331) and the Adoption of New Administrative Rules for Municipal and Quasi-Municipal Water Use Permit Extensions

Dear Municipal and/or Quasi-Municipal Water Use Permit Extension Applicant:

The Water Resources Commission has adopted new administrative rules that govern the processing of Municipal and Quasi-Municipal permit extension requests. The new rules are contained in Oregon Administrative Rules Chapter 690, Division 315 (OAR 690-315-0070 through 690-315-0100). If you wish to view a copy of the new Chapter 690, Division 315 Extension Rules, you may access the document from the Department's web page at:

http://www.wrd.state.or.us/cgi-bin/notices.pl?new_oars

The Department is preparing to implement the new Division 315 extension rules. As part of this process, we assessed pending permit extension applications and determined there is not sufficient information to meet the requirements of the new Division 315 standards. The Department, therefore, must receive the following:

1. **Please complete and return the enclosed new "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits." *Note that the Department has also enclosed a copy of your previously submitted Extension of Time application and related attachments for your use.***

You may also access the "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" on the Department's website at:

<http://www.wrd.state.or.us/publication/forms/index.shtml>

Please submit this information by **March 18, 2003**.

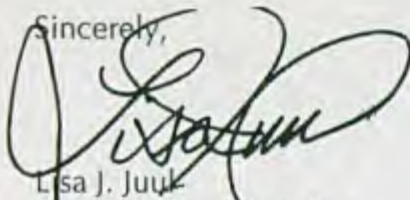


December 18, 2002
Page two of two

If you have an urgent need for the Department to process your extension request, please describe in a cover letter the circumstances that necessitate prompt review.

You may contact me by telephone at 503-378-8455, extension 272 if you have any questions concerning the new rules or our request for additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa J. Juul", written over the word "Sincerely,".

Lisa J. Juul
Water Rights Specialist
Water Rights Section

enclosures

cc: Application File #G6331 (Permit #G6017)

RECEIVED

MAR 20 1998

File No. G-6331

WATER RESOURCES DEPT.
SALEM, OREGON

APPLICATION FOR EXTENSION OF TIME

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Dundee

name

PO Box 220

Dundee

OR

97115

(503) 538-3922

address

city

state

zip

phone

record owner of permit No. G-6017, do hereby request that the time in which to:

☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1997, be extended to October 1, 2002, and/or the time in which to

☒ accomplish beneficial use of water to the full extent under the terms of the permit, which time, now expires on October 1, 1997, be extended to October 1, 2002.

I have accomplished the following described works and/or purchase and installation of equipment necessary to use of water under said permit.

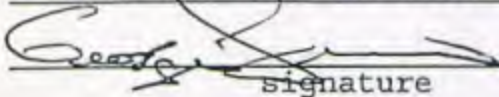
(1) within past year - none - financing not currently available. City
currently revising rate and SDC structure to raise necessary funds.

(2) prior to this past year installed new pumps, flow meters and depth
measuring devices in two of the four wells - completed March, 1996. Pump
tests submitted to Water Resources March 7, 1996.

(3) and have accomplished beneficial use of water to the extent of
(if for irrigation, state how many acres have been irrigated)

± 120 gpm from two wells.

(4) unable to complete construction and/or application of water within the permit time limits because funding limitations partly due to
February 1996 flood and surface water influence studies required by OHD.


signature

3/16/98
date

MAIL APPLICATION AND STATUTORY FEE OF \$100 FOR EACH PERMIT TO:
WATER RESOURCES DEPARTMENT
158 12TH ST NE
SALEM, OREGON 97310

George Lewis
→

12/23/99

Sent City Admin. George Lewis
New EXT. Form, He wasn't aware
of one sent before. Will apply
instead of wait for 2001.

DSM



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

March 27, 1998

CITY OF DUNDEE
DENNY MUCHMORE, P.E.
PO BOX 220
DUNDEE, OR 97115

Reference: File G 6331, 58951 Permits G 6017, 44462

Dear Extension Applicant:

We have received your request for extension of time limits under your permit.

Because of action taken by the Oregon Attorney Generals Office the Water Resources Department is working on new administrative rules affecting the extension process. Anticipating this change in the rules, we will hold your application until the new rules are in effect. We estimate that the rules will be adopted by the summer of 1998.

If it is necessary that you have an extension of time before that, it may be possible if you can make the statement that water can be fully used within five years.

Your patience is appreciated and we will process your request as soon as possible. Enclosed are receipts 19830, 19896 for the \$200 recording fee submitted.

If you have questions please contact me at the address below or phone 1-800-624-3199 ext. 272.

Sincerely,

Dallas Miller
Natural Resource Specialist 2

cc: Watermaster Dist 16



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

November 10, 1998

FILE# G-0331

CITY OF DUNDEE
DENNY MUCHMORE, P.E.
PO BOX 220
DUNDEE, OR 97115

Dear Municipal Water Use Permit Extension Applicant:

The Water Resources Commission has adopted new administrative rules that govern the processing of permit extension requests. The new rules are contained in OAR Chapter 690, Division 320. New rules were necessary to make the permit extension process consistent with advice received from the Attorney General's office in June 1997. Many permit holders elected to hold their extension requests until the new rules were in place. The new rules provide an opportunity for the holders of permits for municipal use to delay action on permit extensions through June 30, 2001. The temporary exemption of municipal use permit holders included in the new permit extension rules was included to provide time for the Department to convene a work group to review issues relating to community water supply, and recommend changes, if appropriate, to current laws and rules. A first meeting with a group of stakeholders to scope out the charge of the community water supply group was held on October 26, 1998. Barring any changes emanating from the work group, municipal use permit holders will be subject to the provisions of OAR Chapter 690, Division 315 as of July 1, 2001.

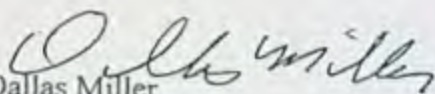
Notwithstanding the temporary exemption in the new rules, should a municipal use permit holder voluntarily wish to apply for a permit extension between now and June 30, 2001, it may be done in accordance with Division 320. Because of the Attorney General's advice, extensions will no longer be limited to five years for municipal use permit holders. Applicants should request to extend permits for the amount of time necessary to fully complete the projects and put the water to beneficial use. By allowing a reasonable period of time for perfection of water rights, it is the Department's hope that future permit extensions will not be necessary. For permit extensions exceeding five years in length, a system of "checkpoints" will apply. This system will require the submission of progress reports at periodic intervals, not exceeding five years, that the Department will review to evaluate permit holders' continuing diligence in fully developing and perfecting water rights.

For municipal use permit holders who wish to proceed with a permit extension under Division 320, please fill out the enclosed form. The new rules require that the Department consider this information when determining whether or not to approve extension requests. It is important for you to complete a response to all items on the form. If additional space is needed for your responses, please use a separate sheet of paper. Please send the completed form at your earliest convenience to my attention at the following address:

Water Right Permit Extensions
Water Resources Department
158 12th Street NE,
Salem, Oregon 97310.

I would be happy to send you a copy of the new permit extension rules, upon request. If you have any questions, please contact me at 1-800-624-3199 extension 272. If I am not available, you may contact either Patrick Lee (ext. 276) or Dwight French (ext 268). If you have an interest in the community water supply group, please contact Patrick Lee.

Sincerely,


Dallas Miller
Water Rights Specialist



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

October 29, 1998

FILE#: G 6331
CITY OF DUNDEE DUNDEE, OR 97115

Dear Water Right Permit Extension Applicant:

The Water Resources Commission has adopted new administrative rules that govern the processing of permit extension requests. New rules were necessary to make the permit extension process consistent with advice received from the Attorney General's office last summer. Many permit holders held their extension requests until the new rules are in place. Because of the Attorney General's advice, extensions will no longer be limited to one year in length for most permits and five years for municipalities and irrigation districts. You should request to extend your permit for the amount of time necessary to fully complete your project and put the water to beneficial use. Should the permit extension be approved, it is the Department's expectation that it will be the last extension granted.

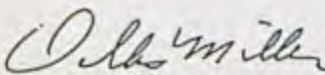
In order to help staff to complete the processing of your extension application, we will need you to fill out the enclosed form. The new rules require that the Department consider this information when determining whether or not to approve an extension request. It is important for you to complete a response to all items on the form. If additional space is needed for your responses, please use a separate sheet of paper.

Please send the completed form at your earliest convenience to the following address:

Dallas Miller
Water Right Permit Extensions
Water Resources Department
158 12th Street NE
Salem, Oregon 97310

I would be happy to send you a copy of the new permit extension rules, upon request. If you have any questions, please contact me at 1-800-624-3199 extension 272. If I am not available, you may contact either Pat Lee (ext. 276) or Dwight French (ext 268).

Sincerely,


Dallas Miller
Water Rights Specialist

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
 2. ☐ Restricted Delivery

Consult postmaster for fee.

CITY OF DUNDEE
 PO BOX 201
 DUNDEE OR 97115

4a. Article Number

P-56335

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

2/19/98

5. Received By: (Print Name)

☒ B. Davis

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

WATER RESOURCES DEPT
158 12TH ST NE
SALEM OR 97310

FEB 19 1998

PM
USPS





Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

February 12, 1998

CITY OF DUNDEE
PO BOX 201
DUNDEE OR 97115

REFERENCE: File G-6331& 58951

According to the terms of your Permit G-6017 and 44462 complete application of water was to have been made by October 1, 1997.

Complete application of water means use of the water for the beneficial purpose described in the permit to the full extent intended. (In the case of irrigation, it means beneficial irrigation of the lands the permittee intends to cover.) This may be a smaller amount than the permit allowed. If the water has been used, you should promptly submit notice describing the extent of completion as set forth in the letter accompanying your permit.

ORS 537.260 provides that: "Whenever the time within which any appropriation under a permit should have been perfected has expired and the owner of the permit fails or refuses within three months thereafter to submit to the Water Resources Director proof of completion of the appropriation as required by ORS 537.230 and 537.250, the Water Resources Director may, after 60 days notice by registered mail, order the cancellation of the permit."

You are hereby notified that, unless proof of beneficial use is received by **April 15, 1998** (within 60 days from the date of this letter) the permit may be canceled without further notice.

If you are no longer interested in the project described by the permit, we would appreciate being advised. If the property involved has been sold and any part of the project was completed, you should assign the permit to the new owner. An assignment form will be furnished upon request.

If additional information is needed, please contact me at extension 272 at 378-3739 or toll-free 1-800-624-3199.

Sincerely,

Dallas Miller
Natural Resource Specialist 2

DM:jh

cc: Bill Ferber, Watermaster
Westech Engineering, Inc.

CERTIFIED - RETURN RECEIPT REQUESTED

July 22, 1996

Oregon

WATER
RESOURCES
DEPARTMENT

CITY OF DUNDEE
PO BOX 220
DUNDEE OR 97115

With regard to the pump test requirements for the following well(s) and associated water right(s):

PERMIT: G-6017	POD-ID: 30158	City Well 1
App # G-6331	POD-ID: 30159	
	POD-ID: 30160	City Well 2
	POD-ID: 30161	

The Water Resource Department has reviewed and accepted the pump test results you submitted (PERMIT: G-6017, POD-ID'S: 30158 and 30160). The Department requires no further testing of this well at this time. However, you will be required to submit a static water level measurement of the well on the ten-year anniversary of the test you conducted.

The Department has also reviewed your request for an extension of time to conduct the pump test. Your new due date is February 14, 1996.

Our review indicates that you may be eligible in exempting the other two wells from the Pump Test requirements because they appear to fall in the Multiple Well guidelines. The other two wells may be exempted from the pump test if the wells to be tested and the previously tested wells:

- * are within a five-mile radius,
- * appear to be completed in the same water-bearing zone,
- * if all wells are owned by the same landowner, and
- * if we have received a written request for the multiple well exemption.

We appreciate your cooperation in this program. If you have any questions, please contact Marilyn Baker at 378-8455, ext 289 or myself at the address or phone number listed below.

Sincerely,

Marilyn Baker for
FRED LISSNER, Manager
Groundwater/Hydrology Section

cc: Water Rights Section



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
†(Extra charge)† †(Extra charge)†

3. Article Addressed to:

City of Dundee
Mrs. Joanne Overgood,
City Recorder
PO Box 201
Dundee, OR 97115

4. Article Number

56853

Type of Service:

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee

X *Joanne Overgood*

6. Signature - Agent

X *City Hall - Dundee*

7. Date of Delivery

6/7/88 (MC)

8. Addressee's Address (ONLY if requested and fee paid)

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.



RETURN
TO



Print Sender's name, address, and ZIP Code in the space below.

WATER RESOURCES DEPT.
3850 PORTLAND ROAD N.E.
SALEM, OREGON 97310



Water Resources Department

3850 PORTLAND ROAD NE, SALEM, OREGON 97310

PHONE 378-3739

June 6, 1988

Mrs. Jeanne Livengood, City Recorder
City of Dundee
PO Box 201
Dundee OR 97115

REFERENCE: Files G-6331 and 58951

According to the terms of your Permits G-6017 and 44462, complete application of water was to have been made by October 1, 1987.

Complete application of water means the application of water to a beneficial use under the permit to the full extent intended. In the case of irrigation, it means beneficial irrigation of all the lands the permittee intends to cover under the terms of the permit. If the water has been used, you should promptly submit notice describing the extent of completion as set forth in the letter accompanying your permit and also in our postal card of October 12 and October 13, 1987.

ORS 537.260 provides that: "Whenever the time within which any appropriation under a permit should have been perfected has expired and the owner of the permit fails or refuses within three months thereafter to submit to the Water Resources Director proof of completion of the appropriation as required by ORS 537.230 and 537.250, the Water Resources Director may, after 60 days notice by registered mail, order the cancellation of the permit."

In accordance with the provisions of ORS 537.260, you are hereby notified that unless proof of beneficial use is received within 60 days from the date of this letter, the permit may be canceled without further notice.

If you are no longer interested in the project described by the permit, we would appreciate being advised. If the property involved has been sold and any part of the project was completed, you should assign the permit to the new owner. An assignment form will be furnished upon request.

If additional information is needed, please contact Ves Garner, Manager, Survey/Certificate Section.

CERTIFIED - RETURN RECEIPT REQUESTED

June 10, 1983

Jeanne Livengood, City Recorder
City of Dundee
PO Box 201
Dundee, OR 97115

Dear Jeannet:

REFERENCE: File G-6331

Thank you for the information you sent me involving the water systems summary performed by your engineering firm and the several deeds and copies of the permits. With this information it would appear that the location of the wells as listed on Figure 5-1 in the 1980 plan for Dundee, are a little bit in error as to the location of the wells. The location identified on the map submitted is exactly the same for those four wells as the application map for Permit G-6017. Therefore, it would appear that you have another well which can be drilled in the NW 1/4 NW 1/4 of Section 31, Township 3 South, Range 2 West. I have highlighted the location of the four wells allowed under Permit G-6017 in red on your copy of the map. As long as the wells are developed at those locations or in close proximity then the permit will remain in good status under the extension of time.

My other concern of the letter of May 3, 1983, was regarding your Pruitt Wells. It seems you have a filing G-10904 which deals with those two wells and I have been informed that it is in proper status and a permit will be issued. You had made the filing for that prior to my letter of May 3, 1983, however, there was no reference to it in our card index file, so I was not aware of it at that time. This will be corrected today. It appears from the information that I have dealt with now that your rights are in proper order and should not create any problems to you for the next several years.

Thank you very much for your quick response with the information so that we could make sure your filings are in order. It's a pleasure working with people like you.

Sincerely,

BRUCE A. ESTES, Supervisor
Survey/Certificate Section

BAE:wpc
6875B

June 28, 1994

CITY OF DUNDEE
PO BOX 220
DUNDEE, OR 97115

REFERENCE FILES: G-6331 AND 59851

We have been holding action on your requests to extend the time limits of your permits G-6017 and 44462 pending a reply to my letter dated January 26, 1994. A copy is enclosed.

Will you bring us up to date regarding when we could expect to receive the requested information?

Sincerely,

Thomas E. Shook
Water Right Specialist

cc: WESTECH ENGINEERING, INC



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

January 26, 1994

WESTECH ENGINEERING, INC.
3421 25TH ST SE
SALEM, OR 97302-1191

REFERENCE FILES: G-6331 AND 59851/CITY OF DUNDEE

ATTN: DENNY MUCHMORE

We have received your check in the amount of \$200 and two requests for extension of time limits for the City of Dundee's permits G-6017 and 44462.

As you are aware, the City has several rights of record from several sources. Most of the rights have been completed and are evidenced by certificates of water right. In order to evaluate these requests for more time, the earlier rights must be considered.

More information is needed for permit G-6017.

1. Have the four wells been drilled? If not, how many have been drilled?
2. What size pumps have been installed?
3. What is the length and diameter of mainline placed during the period October 1987 through October 1992?
4. What was the maximum amount of water diverted, in gallons per minute or cubic feet per second, from the four? wells during peak usage.



We were advised in 1982 that the water study plan for permit 44462 had been completed. During the period '87 - '92 was there another study completed. Has there been any development of the water system for this permit?

If there were any unforeseen events that delayed progress of either permit, that information would be helpful.

Further action will be withheld on these files for a reasonable length of time pending your reply.

Sincerely,

Thomas E. Shook
Water Right Specialist



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

NOV 18 1993

**WATER RESOURCES DEPT.
SALEM, OREGON**

November 13, 1993

Water Resources Department
3850 Portland Road NE
Salem, Oregon 97310

RE: City Water Rights
JO 441.100.0

Dear Sirs:

Enclosed please find copies of Request for Extension of Time for both the Willamette River water right (Permit 44462) and Well No. 4 (Permit G-6017) for the City of Dundee. Also enclosed please find a check for \$200.00.

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.

Denny Muchmore
City of Dundee Engineering

drm

Enclosure

cc: Mr. Chuck Lund, City of Dundee

Remarks: Limitations:

Permit No. G- **G 6017**

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon

I, **City of Dundee**
of **Dundee, Oregon**, county of **Yamhill**
state of **Oregon**, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, **SUBJECT TO EXISTING RIGHTS**:

If the applicant is a corporation, give date and place of incorporation

1895 an Oregon corporation

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated **No. 2 and 4 - Willamette River; No. 3 - unnamed creek**

tributary of **Willamette River**

2. The amount of water which the applicant intends to apply to beneficial use is **cubic feet per second or 100 gallons per minute. No. 2 - 115 GPM; No. 3 - 100 GPM; No. 4 - 120 GPM**

3. The use to which the water is to be applied is **municipal water system for City of Dundee**

4. The well or other source is located **XXXX ft. NORTH and XXXX ft. WEST** from the corner of **See Attached Sheet (for 2, 3 & 4) = 1 WELL IS LOCATED**
With 42° 27' 22" West 2066.80' From 1/4 Corner Section 27, Township 2N, Range 2E, W.M., in the county of Yamhill
(If there is more than one well, each must be described. Use absolute direct if necessary)
being within the **1/4 North East quarter** of Sec. **27**, Twp. **2** South, R. **2** West, W. M., in the county of **Yamhill**

5. The **(Canal or pipe line)** to be **_____** miles in length, terminating in the **(Smallest legal subdivision)** of Sec. **_____**, Twp. **_____**, R. **_____**, W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is **City Municipal system**

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Valved #1 or direct flow into Spring intake when pumping.

8. The development will consist of **three additional wells 7. #1** has a diameter of **No. 2 - 12" No. 4 12" & 16"** (Give number of wells, diameters, etc.) **No. 2 - 115 No. 4 - 200 No. 2 115'** feet of the well will require **steel** casing. Depth to water table is estimated **No. 2 - 29 No. 3 - 01 No. 4 - 30** **#1 - 10 GPM ARTESIAN**

CANAL SYSTEM OR PIPE LINE— SEE MAP OF CITY SYSTEM

9 (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake in.; in size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use, ft. Is grade uniform? Estimated capacity, sec. ft.

10. If pumps are to be used, give size and type. No. 2 - 115 GPM deep well turbine; No. 3 - 100 GPM submersible; No. 4 - 120 GPM submersible

Give horsepower and type of motor or engine to be used. No. 2 - 20 HP 440 3 phase electric; No. 3 - 10 HP 220 volt 3 phase electric; No. 4 - 20 HP 440 volt 3 phase electric

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

No. 2 - 400 feet from Millemotte River 30 feet above; No. 3 is 35 feet from unnamed creek 3 feet above; No. 4 is 100 feet from Millemotte River 35 feet above

12. Location of area to be irrigated, or place of use, Dundas, Oregon and adjacent lands

Township N. or S.	Range E. or W. of Willemotte Meridian	Section	Parties Trust	Number Acres To Be Irrigated
3 South	3 West	26	All	640
3 South	3 West	25	All	640
3 South	3 West	27	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	27	NE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	27	SE $\frac{1}{4}$ of the SE $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	35	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	35	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6

(If more space required, attach separate sheet)

(See Attached Sheet)

Character of soil

Kind of crops raised quail, municipal

MUNICIPAL SUPPLY—

13 To supply the city of Dundee, Oregon
 14 Yamhill county, having a present population of 620
 and an estimated population of 1,500 in 1965

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

14. Estimated cost of proposed works, \$ 410,000.00
 15. Construction work will begin on or before August 1, 1973
 16. Construction work will be completed on or before August 1, 1974
 17. The water will be completely applied to the proposed use on or before August 1, 1975
 18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. G-1253, P-17357, P-5932, P-8979, P-13900

W. B. Bonting City Engineer
 (Signature of applicant)

Remarks:

STATE OF OREGON, }
 County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction and completion

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before April 12, 1974

WITNESS my hand this 12th day of February, 19 74

RECEIVED
 STATE ENGINEER
 SALEM, OREGON

GIRTS L. WHEELER
 STATE ENGINEER
 BY *Thomas M. Brock*
 THOMAS M. BROCK
 ASSISTANT

APPLICATION FOR A PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON Permit No. G _____

(4.) Well No. 2 is located N 71° 00' 32" E. 4377.26 feet

from the Southwest corner of Levi Hagay Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Southwest quarter of the Southwest quarter of Section 30, Township 3 South, Range 2 West.

Well No. 3 is located N 41° 45' 18" W. 2126.22 feet

from the quarter corner on the East line of Section 27, Township 3 South, Range 3 West, being within the Northwest quarter of the Northeast quarter of Section 27, Township 3 South, Range 3 West.

Well No. 4 is located N 70° 42' 56" E. 3816.42 feet

from the Southwest corner of Levi Hagay Donation Land Claim in Section 36, Township 3 South, Range 3 West, being within the Northeast quarter of the Northeast quarter of Section 36, Township 3 South, Range 3 West.

Application No. (5) 6331
Permit No. G 6017

Letter dated May 3, 1974

1. Location of area to be irrigated, or place of use Dundee, Oregon and adjacent lands.

TOWNSHIP N. or S.	RANGE E. or W. of WILLAMETTE MERIDIAN	SECTION	FORTY-ACRE TRACT	NUMBER ACRES TO BE IRRIGATED
3 South	3 West	35	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	35	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	34	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	34	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NW $\frac{1}{4}$	40
3 South	3 West	36	NW $\frac{1}{4}$ of the NE $\frac{1}{4}$	40
3 South	3 West	36	NE $\frac{1}{4}$ of the NE $\frac{1}{4}$	35.2
3 South	3 West	36	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NW $\frac{1}{4}$	24.6
3 South	3 West	36	SW $\frac{1}{4}$ of the NE $\frac{1}{4}$	24.6
3 South	3 West	36	SE $\frac{1}{4}$ of the NE $\frac{1}{4}$	8.8
3 South	2 West	31	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	5.8
3 South	2 West	30	NW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the NW $\frac{1}{4}$	23.5
3 South	2 West	30	NW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5
3 South	2 West	30	SW $\frac{1}{4}$ of the SW $\frac{1}{4}$	23.5

Application No. C-6331
Permit No. G 6017

STATE OF OREGON, }
County of Marion, }

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.97 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from four wells, being 0.22 c.f.s. from #1, 0.26 c.f.s. from #2, 0.22 c.f.s. from #3, & 0.27 c.f.s. from #4.

The use to which this water is to be applied is for municipal purposes.

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed acre feet per acre for each acre irrigated during the irrigation season of each year;

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is April 22, 1974

Actual construction work shall begin on or before November 3, 1976 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1977.

Complete application of the water to the proposed use shall be made on or before October 1, 1978.

WITNESS my hand this 3rd day of November, 1975.

James R. Seaman
Water Resources Director

Application No. G- 631
Permit No. G- 6017

PERMIT

TO APPROPRIATE THE GROUND
WATERS OF THE STATE
OF OREGON

This instrument was first received in the
office of the State Engineer at Salem, Oregon,
on the 26 day of October,
1973, at 3:30 o'clock P. M.

Returned to applicant:

Approved:

Recorded in book No. of
Ground Water Permits on page G 6017

STATE ENGINEER

Drainage Basin No. 2 page 134

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CITY OF DUNDEE
PO BOX 201
DUNDEE OR 97115
G6331 & 58951

4a. Article Number

P 56231

4b. Service Type

- | | |
|---|---|
| ☐ Registered | ☐ Insured |
| ☒ Certified | ☐ COD |
| ☐ Express Mail | ☐ Return Receipt for Merchandise |

7. Date of Delivery

11/8/93

5. Signature (Addressee)

A. Bandy

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE

Official Business



PENALTY FOR PRIVATE
USE TO AVOID PAYMENT
OF POSTAGE, \$300



Print your name, address and ZIP Code here

• WATER RESOURCES DEPT.
3850 PORTLAND ROAD N.E.
SALEM, OREGON 97310 •



November 3, 1993

CITY OF DUNDEE
PO BOX 201
DUNDEE OR 97115

REFERENCE: File G-6331

According to the terms of your Permit G-6017 complete application of water was to have been made by October 1, 1992.

Complete application of water means use of the water for the beneficial purpose described in the permit to the full extent intended. (In the case of irrigation, it means beneficial irrigation of the lands the permittee intends to cover.) This may be a smaller amount than the permit allowed. If the water has been used, you should promptly submit notice describing the extent of completion as set forth in the letter accompanying your permit and also in our postal card of October 22, 1992.

ORS 537.260 provides that: "Whenever the time within which any appropriation under a permit should have been perfected has expired and the owner of the permit fails or refuses within three months thereafter to submit to the Water Resources Director proof of completion of the appropriation as required by ORS 537.230 and 537.250, the Water Resources Director may, after 60 days notice by registered mail, order the cancellation of the permit."

You are hereby notified that, unless proof of beneficial use is received within 60 days from the date of this letter, the permit may be canceled without further notice.

If you are no longer interested in the project described by the permit, we would appreciate being advised. If the property involved has been sold and any part of the project was completed, you should assign the permit to the new owner. An assignment form will be furnished upon request.

If additional information is needed, please contact the Water Rights Section.

TES:jh

CERTIFIED - RETURN RECEIPT REQUESTED



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
FAX (503) 378-8130



Water Resources Department

3850 PORTLAND ROAD NE, SALEM, OREGON 97310

PHONE 378-3739

January 23, 1989

City of Dundee
P.O. Box 201
Dundee, Oregon 97115

Reference File: G-6331

Your application for extension of the time limits to complete construction and make complete application of water under the terms of your Permit G-6017 was received. We also have your check for \$100.00.

The application indicates reasonable diligence toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are extended to October 1, 1992.

Sincerely,

Steven P. Applegate, Manager
Survey/Mapping Section

receipt enclosed

John Irwin - Westech
City of Dundee
G-6331
58251

7/25/88 - Measure about ext. reform C on Permit G-6017 - he
will talk to City people.

Williamette R source - no activity or start yet.
John will look out if ext. is appropriate or
if they wish to cancel -

APR

Application for Extension of Time**RECEIVED**

AUG - 3 1988

TO THE WATER RESOURCES DIRECTOR OF OREGON

WATER RESOURCES DEPT.
SALEM, OREGON

I, City of Dundee Name
P.O. Box 201 Mailing Address
Dundee Oregon 97115
City State Zip

record owner of water permit No. G - 6017, do hereby request that the time in which to:

- ☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 19__, be extended to October 1, 19__;
 and/or the time in which to
- ☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1987, be extended to October 1, 1992.

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

- (1) within the past year _____

All wells are currently producing but not at permit rates or covering the entire
permit area.

- (2) prior to this past year _____

- (3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) _____

(If additional space is required, attach separate sheet)

Ing Strand, Recorder
(If signing for a corporation please identify your title)

Dated

August 1, 1988

MAIL COMPLETED APPLICATION AND STATUTORY FEE
 OF \$100.00 FOR EACH PERMIT TO:

Water Resources Department
 3850 Portland Road N.E.
 Salem, Oregon 97310

8-3-88

\$100.00

55804

OK B&C to
 10-1-92
 JH

CITY OF DUNDEE

675 HIGHWAY 99W

DUNDEE, OREGON 97115

P.O.BOX 201

PHONE: 538-3922

May 27, 1983

RECEIVED

MAY 31 1983

**WATER RESOURCES DEPT.
SALEM, OREGON**

Water Resources Department
Mill Creek Office Park
555 13th Street NE
Salem, Oregon 97310

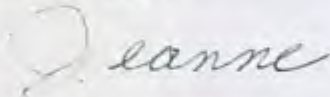
Dear Bruce:

Please find enclosed a map and application copy received from Boatwright Engineering. Also, copies of deeds and agreements we found in our file. Hopefully, this will clear up our file G6017.

Please let me know if I need to do any more researching.

Thank you for all your help.

Very truly,



Jeanne Livengood,
City Recorder

JL/mj

157 PAGE 374

KNOW ALL MEN BY THESE PRESENTS, That I, CHASE L. CONOVER, a single man, widower of Grace M. Conover, deceased, - - - - - in consideration of Ten and no/100ths - - - - - Dollars, to me paid by the CITY OF DUNDEE, a municipal corporation of Yamhill County, Oregon, - - - - - do hereby grant, bargain, sell and convey unto said CITY OF DUNDEE, - - - - -

- - - - - its successors ~~heirs~~ and assigns, all the following real property, with the tenements, hereditaments and appurtenances situated in the County of Yamhill and State of Oregon, bounded and described as follows, to-wit:

PARCEL 1: The Northwest quarter of the Northeast quarter of Section Twenty-seven, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, and State of Oregon; SAVE and EXCEPT therefrom, a strip of land 15 feet in width off of and from the East side thereof, now used, and to be hereafter used by the Public for road purposes, said roadway to be and remain as now located and used; ALSO, reserving for the benefit of the HUDSON INVESTMENT COMPANY, a corporation, and MEDORA G. NICHOLS, and their respective assigns, the right and privilege of operating, maintaining, and repairing when necessary that certain water pipe line now lying diagonally across the North 20 acres of said premises, subject to easements for water and electric lines in favor of Town of Dundee.

PARCEL 2: The West half of the West half of the Southwest quarter of the Southeast quarter, and the West half of the West half of the Northwest quarter of the Southeast quarter of Section 22, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, and State of Oregon.

Said above described two parcels of land, containing 60 acres, more or less.

ALSO:

The East Half of the West Half of the Southwest Quarter of the Southeast Quarter, and the East Half of the West Half of the Northwest Quarter of the Southeast Quarter and the West Half of the East Half of the Northwest Quarter of the Southeast Quarter of Section 22, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, Oregon, and containing 30 acres, said above described Tracts of land being designated as Tracts 7, 10 and 11 "OTTERBROOK ORCHARDS"; SAVE and EXCEPT therefrom a right-of-way for a roadway over and across a strip of land 10 feet in width along the North line of Tract 7, and a strip of land 10 feet in width along the South line of Tracts 10 and 11.

To Have and to Hold, the above described and granted premises unto the said CITY OF

DUNDEE, - - - - - its successors ~~heirs~~ and assigns forever.

And CHASE L. CONOVER, - - - - - the grantor above named do es covenant to and with the above named grantee, its successors ^{or} ~~heirs~~ and assigns that he is lawfully seized in fee simple of the above granted premises, that the above granted premises are free from all encumbrances, - - - - -

and that he will and his heirs, executors and administrators, shall warrant and forever defend the above granted premises, and every part and parcel thereof, against the lawful claims and demands of all persons whomsoever, - - - - -

Witness my hand and seal this 11th day of May, 1950
Executed in the Presence of

Margie B. Morrison

Chase L. Conover (SEAL)



CALIFORNIA
STATE OF ~~OREGON~~

County of Los Angeles

ss.

BE IT REMEMBERED, That on this 11th day of May A. D. 19 50
before me, the undersigned, a Notary Public - - - - -
in and for said County and State, personally appeared the within named CHASE L. CONOVER, a
single man, widower of Grace M. Conover, deceased, who is known
to me to be the identical individual described in and who executed the within instrument and acknowl-
edged to me that he executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and
official seal the day and year last above written.

Margaret B. Merritt
Notary Public for ~~California~~

My Commission expires : My Commission Expires Jan. 18, 1952

24596 *

WARRANTY DEED

(FORM No. 703)

CHASE L. CONOVER

TO

CITY OF DUNDEE

STATE OF OREGON,

County of *Deschutes* ss.

I certify that the within instrument
was received for record on the 22
day of *May*, at *11* o'clock
A. D. 19 *50*, and recorded in book *157*
on page *374*, Record of
Deeds of said County.

WITNESS my hand and seal of
County affixed.

Herbert Swift
County Clerk
Recorder of Conveyances.

Deputy.

From the Office of:
HERBERT SWIFT
Attorney at Law
Newberg, Oregon

Chase Conover

WARRANTY DEED

THIS INDENTURE WITNESSETH, that we, ANNA L. CHRISTOPHER, an unmarried woman, and
ROSAMOND I. YOUNG, an unmarried woman, _____ for the consideration of the sum of
TEN & 10/100 _____ DOLLARS,
to — us — paid, have bargained and sold, and by these presents do bargain, sell and convey unto
_____ CHASE L. CONOVER and GRACE M. CONOVER, husband and wife, _____ the following
described premises, to-wit:

PARCEL 1. The Northwest quarter of the Northeast quarter of Section Twenty-Seven, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, and State of Oregon; SAVE and EXCEPT therefrom, a strip of land 15 feet in width off of and from the East side thereof, now used, and to be hereafter used by the Public for road purposes, said roadway to be and remain as now located and used; ALSO, reserving for the benefit of the HUDSON INVESTMENT COMPANY, a corporation, and MEDORA C. NICHOLS, and their respective assigns, the right and privilege of operating, maintaining, and repairing when necessary that certain water pipe line now lying diagonally across the North 20 acres of said premises.

PARCEL 2. The West half of the West half of the Southwest quarter of the Southeast quarter, and the West half of the West half of the Northwest quarter of the Southeast quarter of Section 22, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, and State of Oregon.

Said above described two parcels of land, containing 60 acres, more or less.



*Parcel 2
given to Conovers*

TO HAVE AND TO HOLD the said premises, with their appurtenances, unto the said
_____ CHASE L. CONOVER and GRACE M. CONOVER, their _____ heirs and assigns forever.
And the said — ANNA L. CHRISTOPHER and ROSAMOND I. YOUNG, _____ do —
hereby covenant to and with the said — CHASE L. CONOVER and GRACE M. CONOVER, their —
_____ heirs and assigns that — they —
— are the owners — in fee simple of said premises; that they are free from all incumbrances, —
and that — they — will warrant and defend the same from all lawful claims whatsoever.

IN WITNESS WHEREOF, we have hereunto set — our — hands ~~and seal~~ this — 16th. —
day of — April, — A. D. 1937.

Anna L. Christopher
Rosamond I. Young

ACKNOWLEDGMENT

STATE OF OREGON, }
County of Yamhill } ss

On this-16th. day of — April,— A. D., 19 37 , personally came before me, a Notary Public in and for said County and State, the within named — ANNA L. CHRISTOPHER, an unmarried — woman, and ROSAMOND I. YOUNG, an unmarried woman, — to me personally known to be the identical persons described in and who executed the within instrument, and acknowledged to me that — they — executed the same freely for the uses and purposes therein named.

WITNESS my hand and Notarial Seal this —16th.—day of — April, — 19 37.

(SEAL)

R. P. Zell
Notary Public for Oregon

My commission expires: *10/7/38*

COMPARED

87757

INDEXED

WARRANTY DEED

From

ANNA L. CHRISTOPHER and
ROSAMOND I. YOUNG, unmarried
women, To

CHASE L. CONOVER, ET UX. —

State of Oregon

County of *Yamhill* } ss

I certify that the within instrument was received and duly recorded by me in Yamhill County Records, Book of Deeds, Vol. *112* Page *437* on the *20* day of *April* 19 *37*.

E. F. Perkins

E. F. Perkins County Clerk
E. F. Perkins Deputy

Filed *19* 19 *37*

at *8:25* o'clock *A. M.*

E. F. Perkins
County Clerk

E. F. Perkins
Deputy

From the Law Office of
R. H. C. BENNETT
Newberg, Oregon

1501

THIS INDENTURE WITNESSETH, that I, CORNELIA J. SPENCER, an unmarried woman,

for the consideration of the sum of

TEN & NO/100

DOLLARS.

to me paid, have bargained and sold, and by these presents do bargain, sell and convey unto CHASE L. CONOVER and GRACE M. CONOVER, husband and wife, as tenants by the entirety, and NOT as community property, the following

described premises, to-wit:

The East Half of the West Half of the Southwest Quarter of the Southeast Quarter, and the East Half of the West Half of the Northwest Quarter of the Southeast Quarter and the West Half of the East Half of the Northwest Quarter of the Southeast Quarter of Section 22, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, Oregon, and containing 30 acres, said above described Tracts of land being designated as Tracts 7, 10 and 11 "OTTERBROOK ORCHARDS"; SAVE and EXCEPT therefrom a right-of-way for a roadway over and across a strip of land 10 feet in width along the North line of Tract 7, and a strip of land 10 feet in width along the South line of Tracts 10 and 11.

TO HAVE AND TO HOLD the said premises, with their appurtenances, unto the said CHASE L. CONOVER and GRACE M. CONOVER, their heirs and assigns forever.

And the said CORNELIA J. SPENCER does hereby covenant to and with the said CHASE L. CONOVER and GRACE M. CONOVER, their heirs and assigns that she is the owner in fee simple of said premises: that they are free from all incumbrances, and that she will warrant and defend the same from all lawful claims whatsoever.

IN WITNESS WHEREOF, I have hereunto set my hand this 5th day of January A. D. 1948

Cornelia J. Spencer

ACKNOWLEDGEMENT

OF
STATE OF OREGON } ss
County of Clackamas

On this 5 day of January A. D., 1948, personally came before me, a Notary Public in and for said County and State, the within named

CORNELIA J. SPENCER, an unmarried woman,

to me personally known to be the identical person described in and who executed the within instrument, and acknowledged to me that she executed the same freely for the uses and purposes therein named.

WITNESS my hand and Notarial Seal this 5 day of January 19 49

(SEAL)

Bertha A. Coul
Notary Public for Oregon

My commission expires April 1 - 1949



15024

WARRANTY DEED

From

CORNELIA J. SPENCER, unmarried,

To

CHASE L. CONOVER, et ux.

State of Oregon

County of Yasobud ss

I certify that the within instrument was received and duly recorded by me in Yasobud County Records, Book of Deeds, Vol. 146 Page 202 on the 17 day of Jan 1948

G. B. McLaughlin
County Clerk

Filed Jan 17 1948

at 1:30 o'clock P.M.

G. B. McLaughlin
County Clerk

L. O. Bennett
Deputy

From the Law Office of
R. H. C. BENNETT
Newberg, Oregon

Mr. Chase L. Conover
151-111



1/1
RECEIVED

MAY 3 1 1983

WATER RESOURCES DEPT.
SALEM, OREGON

FILM 103 PAGE 835

RECEIVER'S BARGAIN AND SALE DEED

WILLIAM E. TASSOCK, as Receiver for Standard Investment Company, Inc., an Oregon corporation, grantor, conveys to the CITY OF DUNDEE, grantee, the following described real property:

Beginning at an iron rod which is 1559.13 feet North 01° 09' 30" East and 4141.84 feet South 88° 56' East and 851.44 feet South 30° 20' West and 25.00 feet North 59° 40' West from the Southwest corner of the Levi Hagey Donation Land Claim in Township 3 South, Range 3 West of the Willamette Meridian, Yamhill County, Oregon; and running thence South 30° 20' West 50.00 feet to an iron rod; thence south 59° 40' East 50.00 feet to an iron rod; thence North 30° 20' East 50.00 feet to an iron rod; thence North 59° 40' East 50.00 feet to the point of beginning.

ALSO: An exclusive permanent easement for roadway and utility purposes through, upon and across a strip of land 20 feet in width, being 10 feet on each side of the following described centerline:

Beginning at a point which is 25.00 feet South 59° 40' East from the most northerly corner of the above described tract; and running thence North 30° 20' East 851.44 feet to a point. Said easement to be 30 feet in width, being 15 feet on each side of said centerline, during the period of construction of well facilities on the above described tract.

ALSO: A permanent easement in those premises within 75 feet of the above described tract restricting the use thereof from the installation of any septic tanks, drain fields, or other sources of contamination or other conditions conflicting with the requirements of the Oregon Department of Human Resources for municipal water supplies.

The true and actual consideration for this conveyance is Ten and no/100 (\$10.00) Dollars.

Until change is requested, all tax statements shall be sent to the following address:

City of Dundee
P.O. Box 201
Dundee, Oregon

~~This deed is intended as a correction deed to correct the description in that deed previously recorded in Film 102, Page 1273, Yamhill County Deed Records.~~

IN WITNESS WHEREOF, WILLIAM E. TASSOCK has executed this deed,

1. DEED



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508
1-800-452-7813
(message line)

May 3, 1983

City of Dundee
PO Box 201
Dundee, OR 97115

REFERENCE: File Number G-6331

Attention: Mrs. Livingood, City Recorder

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your Permit Number G-6017 was received. We also have your check in the amount of \$20.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1987.

The wells listed in your 1980 master plan do not all coincide with your permit. Well #3 on figure 5-1 is apparently in the correct location for the right identified under Certificate 29157 and has no problem. It appears that Wells #1 and #2 on 5-1 are in proximity to Wells #1 and #3 on Permit Number G-6017. Well #4 on 5-1 appears to be about 1/8 of a mile north of Well #4 on Permit No. G-6017. Wells #5 and #6, known as the Pruitt Wells, apparently have no rights of record for municipal use by the City. These two require a new permit to allow their use.

Please send any survey data on Wells #1, #2, and #4 from the master plan so our groundwater division can determine if the constructed location can be allowed within the terms of Permit Number G-6017. Also, the projected well to be drilled should be compared to the authorized location for Well #2 on Permit No. G-6017. We will be glad to work with you to get your well rights in order. Please feel free to contact me if you have any questions.

Sincerely,

Bruce A. Estes, Supervisor
Survey/Certificate Section

BAE/jw

Enclosure

Application for Extension of Time

RECEIVED

FEB 25 1983

WATER RESOURCES DEPT.
SALEM, OREGON

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Dundee

Name

P. O. Box 201

Mailing Address

DundeeOregon97115

City

State

Zip

record owner of water right permit No. G-6017, do hereby request that the time in which to:

☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 19....., be extended to October 1, 19.....; and/or the time in which to

☐ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 19....., be extended to October 1, 19.....⁸⁷

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

within the past year We have 488 users: Enclosed water study evaluation with location of wells ect.

prior to this past year

and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED)

(If additional space is required, attach separate sheet)

Jeanne Livengood

Recorder/Treasurer

(If signing for a corporation, please identify your title)

Dated February 22, 1983MAIL COMPLETED APPLICATION AND STATUTORY FEE OF \$~~2000~~ FOR EACH PERMIT TO:

\$2000

Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

2-28-83
\$2000
34980

Attn: Mrs. Livengood, City Recorder
plus:
B-C
10-1-87
502

378-8508 or
1-800-452-7813

February 17, 1983

File No. G-6331

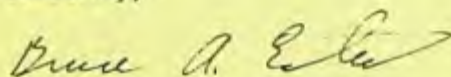
City of Dundee
Mrs. Livingood, City Recorder
PO Box 201
Dundee, OR 97115

I am enclosing a form for use in making application for an extension of time limits under Permit G-6017

The Water Resources Director is permitted by law to extend the time for completion of a project only upon a showing of reasonable diligence by the permittee. Therefore, you should fill out this application carefully and completely describing what has been accomplished.

The application must be submitted to this office with the statutory filing fee in the amount of \$20 for each permit.

Sincerely,



BRUCE A. ESTES, Supervisor
Survey/Certificate Section

BAE:wpc

690-10-115
6164A



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508

File G-6331

Mr. Livingston, City of Dundee
February 23, 1978

City of Dundee
Dundee, OR 97115

Gentlemen,

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your permit number G-6017 has been received. We also have your check in the amount of \$10.00.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1982.

Sincerely,

Bruce A. Estes, Supervisor
Survey-Certificate Section

BAE:jt
Encl. Receipt 64522

RECEIVED

OCT 1 1977

WATER RESOURCES DEPT
SALEM, OREGON

Application No. G-6331

Application for Extension of Time

To the State Engineer of Oregon:

I, City of Dundee, of Dundee (by
state of Oregon, am the owner and holder of Permit No. G-6017, to
appropriate the public waters of the state of Oregon.

Under the terms and conditions of said permit, construction work is required to be completed on or
before October 1, 1977, and complete application of water is required to be
made on or before October 1, 1978.

I have heretofore done the following work described under said permit during the past year:

Engaged Frank L. Hall, P.E., as supervising engineer for Well No. 2. He has prepared
plans and specifications for construction of Well No. 2 and has awarded a contract
for construction to Schneider Equipment Co. The well has been drilled and cased,
and is now being developed.

and did the following work prior to last year:

Well No. 3 completed and in service.

(Well No. 2)

costing \$17,000

24,000 - Well
7,000 - Pump/Motor
3,000 - Piping
1,000 - Wiring

\$35,000

, and I estimate the cost of completion to be \$35,000.

I have heretofore used water under said permit to the following extent:

Well No. 3 is in service.

I am unable to (both) (complete construction work } within the required time, for the following
(make complete application of water }
(Strike out phrase not applicable)

reasons, to wit: Formation of the aquifer encountered contains silty clay requiring
continuous development work since July 29, 1977. The volume and quality of water
is improving but still requires more development work which is still in progress.

(If additional space is required, attach separate sheet)

(A fee of ¹⁰ \$10.00 for each permit involved must accompany this application.)

(OVER)

Rec 64522
\$10.00

Well #2 as
described
here
corresponds
to YAMH 2672
K.W.
Must be well #
as #2 already
noted at the
app. filed.

B-C
10-1-82
BQE

WHEREFORE, I ask that the State Engineer extend the time for the

Both) { completion of construction work } under said permit to October 1, 1982..
{ complete application of water }
(Strike out phrase not applicable)

AFFIDAVIT OF APPLICANT

STATE OF Oregon }
County of Yamhill } ss.

I, Kenneth W Hough, being first duly sworn, depose and say that I have read the above and foregoing application for extension of time; that I know the contents thereof, and the facts stated therein are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 13 day of October

19 77.

Kenneth W Hough

Subscribed and sworn to before me this 13 day of October, 1977

[Notarial Seal]

Wm. Carson

Notary Public for Oregon

My commission expires My Commission Expires May 16, 1981



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508

File G-6331

October 7, 1977

RECEIVED

OCT 13 1977

WATER RESOURCES DEPT
SALEM, OREGON

Mrs. Livingood, Recorder
City of Dundee
P. O. Box 201
Dundee, OR 97115

Dear Mrs. Livingood,

Frank Hall came in today to discuss your well situation and it was our feeling that the existing permit covers the new well along with the others.

I am sending an application for an extension of time to Frank to fill in several items. He will then forward it to you for approval and signature. If it appears satisfactory to you, please have it notarized and return it to me with the statutory fee of \$10.00.

Sincerely,

Bruce A. Estes, Supervisor
Certificate-Survey Section

BAE:jt
cc: Frank Hall

MRS. LIVINGOOD:

If you have the approximate cost of Well No. 3 that is in service, please enter it on the form in the space above the costs that I have shown for the well Schneider Equipment Co. is working on now. If you do not have this data, submit the form without it--I do not believe that it is essential.

If you need any more assistance on this permit application, please call me.

FRANK L. HALL, P.E.



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508

File G-6331

October 7, 1977

Mrs. Livingood, Recorder
City of Dundee
P. O. Box 201
Dundee, OR 97115

Dear Mrs. Livingood,

Frank Hall came in today to discuss your well situation and it was our feeling that the existing permit covers the new well along with the others.

I am sending an application for an extension of time to Frank to fill in several items. He will then forward it to you for approval and signature. If it appears satisfactory to you, please have it notarized and return it to me with the statutory fee of \$10.00.

Sincerely,

Bruce A. Estes, Supervisor
Certificate-Survey Section

BAE:jt
cc: Frank Hall

*Frank informed me Steve Scheider of
Scheider Bros. Drilling - (St. Paul 633-2666) had info
on well. Mrs. Livingood told me ^{2nd} well was started Aug. 77
and still under construction due to drilling problems
399-1151*

City of Dundee
Dundee, OR 97115

November 25, 1975

G-6331

G-6017 with map

May 15, 1974

G-6331

M.G. Boatwright & Associates
2613 Twelfth Street S.E.
Salem, OR 97302

RE: City of Dundee

Gentlemen:

Thank you for your letter authorizing the City's application to be modified to agree with the map. This has been done.

The application numbered G-6331 is now in satisfactory form for approval by the issuance of a permit.

Very truly yours,

THOMAS E. SHOOK
Assistant

TES: cdp
cc: City of Dundee

M. G. BOATWRIGHT & ASSOCIATES

2613 Twelfth Street S. E.

SALEM, OREGON 97302

May 3, 1974

Area Code (503) 363-9225

RECEIVED

MAY 6 1974

**STATE ENGINEER
SALEM, OREGON**

State Engineer's Office
1178 Chemeketa Street, N. E.
Salem, Oregon 97310

Attention: Mr. Tom Shook

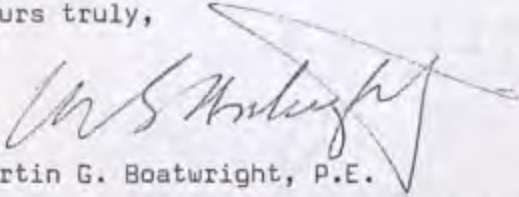
Re: Dundee Ground Water
Water Rights Filing

Dear Mr. Shook:

This letter is to authorize you to modify the location of the four wells making up the water right filings currently before you for the City of Dundee, Oregon. Please correct the filing application to conform with the map showing the ties by bearing and distance to the individual wells in question.

Thank you.

Yours truly,


Martin G. Boatwright, P.E.

MGB:ls

Application No. *G-6331*
Permit No.

G-6331

April 18, 1974

City of Dundee
Dundee, OR 97115

Gentlemen:

Your application numbered G-6331, which was returned to you for correction and completion, endorsed so that in order to retain its date of priority should have been received in this office on or before April 12, 1974, has not been received.

It has, therefore, lost its priority, but may be reinstated and given a new priority date as of the day it is again received.

Very truly yours,

THOMAS E. SHOOK
Assistant

TES:mm

February 12, 1974

G-6331

City of Dundee
Dundee, OR

Gentlemen:

This will acknowledge your application for a permit to appropriate 335 gallons of water per minute from three wells for municipal purposes being 115 gallons of water per minute from Well No. 2, 100 gallons of water per minute from Well No. 3, and 120 gallons of water per minute from Well No. 4. We have also received a reproducible map and the fees of \$30.00 for which our receipt numbered 37197 was handed to Billie Zumwalt. Your application has been filed and numbered G-6331.

The information given in item 2 of your application will have to be amended since you have listed the total amount of water which you intend to appropriate as being 100 gallons of water per minute and you further list 115 gallons of water per minute from Well No. 2, 100 gallons of water per minute from Well No. 3 and 120 gallons of water per minute from Well No. 4.

Our records do not show any water rights of record for the use of water from Well No. 1 as shown on your map, and if it is your intent to include this well on your application, items numbered 2, 4, 8, and 10 will have to be amended accordingly.

For clarification, the information given in item 4 and shown on your map should be changed to show one bearing and distance from the government survey corner to your well.

Your permit, when issued, shall limit the appropriation of water from Wells numbered 2 and 4 only to the extent that they do not impair or substantially interfere with existing surface water rights of others.

February 12, 1974

-2-

G-6331

I am returning your reproducible map and the application for correction and completion. The application is endorsed so that in order to retain its priority date, it must be received in this office on or before April 12, 1974.

Very truly yours,

THOMAS E. SHOOK
Assistant

TES: cdp
Enclosures

1/10/99 DM

10,26/74

Application No. **G 6331**
Permit No. **G 6017**

Name **CITY OF DUNDEE**

Address **Dundee, OR**

Assigned

Address

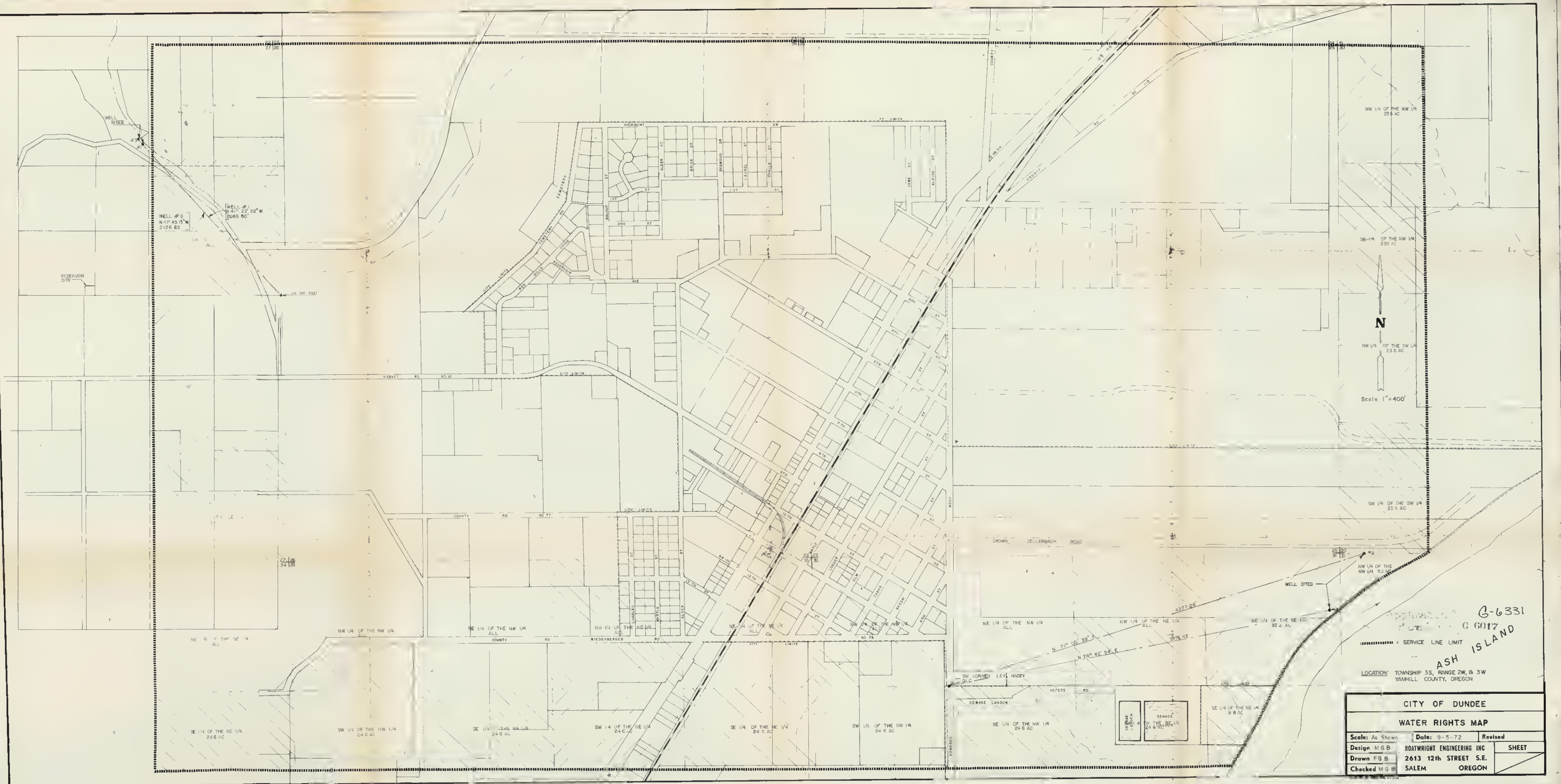
Beginning construction **NOV 03 1976**

Completion of construction **OCT 01 1977**

Extended to **12-1-82 10-1-87 - 10/1/92, 10-1-97**

Complete application of water **OCT 01 1978**

Extended to **10-1-82 10-1-87 - 10/1/92, 10-1-97**



N
Scale 1"=400'

ASH ISLAND
LOCATION: TOWNSHIP 35, RANGE 2W, B 3W
YAMHILL COUNTY, OREGON

CITY OF DUNDEE		
WATER RIGHTS MAP		
Scale: As Shown	Date: 9-5-72	Revised
Design: MGB	BOATWRIGHT ENGINEERING INC	SHEET
Drawn: FGB	2613 12th STREET S.E.	
Checked: MGB	SALEM OREGON	

RECEIVED
STATIONER
SALEM, ORE.



NW 1/4 OF THE NW 1/4
23.5 AC

SW 1/4 OF THE NW 1/4
23.5 AC

NW 1/4 OF THE SW 1/4
23.5 AC

SW 1/4 OF THE SW 1/4
23.5 AC

NW 1/4 OF THE NW 1/4
23.5 AC

NE 1/4 OF THE NE 1/4
35.2 AC

SE 1/4 OF THE NE 1/4
24.6 AC

SW 1/4 OF THE NW 1/4
24.6 AC

SE 1/4 OF THE NE 1/4
24.6 AC

SW 1/4 OF THE NW 1/4
24.6 AC

SE 1/4 OF THE NE 1/4
24.6 AC

SW 1/4 OF THE NW 1/4
24.6 AC

Application No. G-6331
Permit No. G 6017

ASH ISLAND
LOCATION TOWNSHIP 3S, RANGE 2W, & 3W
YAMHILL COUNTY, OREGON

CITY OF DUNDEE		
WATER RIGHTS MAP		
Scale: As Shown	Date: 9-5-72	Revised
Design MGB	BOATWRIGHT ENGINEERING INC	SHEET
Drawn FGB	2613 12th STREET S.E.	
Checked MGB	SALEM	OREGON