City of Keizer

Water Management Plan
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WATER MANAGEMENT PLAN

Section I

Water Supply Background Information

The City of Keizer supplies water to a population of 34,050 over a 7.14 square mile area. The source of this water is the Trousdale Aquifer. The Trousdale Formation is the major water-bearing source in the City and is located about 250 feet below the surface throughout the area. The City accesses this water through 14 wells. Past experience evidences a yield of at least 1,000 gpm per properly developed well. Groundwater quality from the existing wells is good and satisfactory for potable use. This system represents the development of a water system from a collection of private wells which were combined in 1957 to form the Keizer Water District. This district was absorbed by the new City of Keizer in July, 1985 (Exhibit A). The list of municipal water rights is attached (Exhibit B).

The existing system serving the City of Keizer consists of two pressure zones operating in the range of 50-78 psi. The pressure variation is due to elevation difference and system friction losses throughout the City. Fourteen City wells are available to supply demands through a network of about 125 miles of pipelines ranging from 4 to 16 inches in diameter.

The primary transmission capacity of the distribution system is provided by a line varying from 10 inches to 16 inches in diameter running along River Road North and Cherry Avenue. The pipeline material of choice since mid 1980 has been ductile iron. Previously installed pipe contributing to a majority of the system's total length is steel.

Total useable storage capacity is 1.5 MG. This storage capacity meets peak hour and peak day requirements. Auxiliary engines (gas, diesel and propane) provide additional flows to augment storage when necessary. Future plans include a 750,000 gallon water tank added to a new 500 gpm well.

The attached schematic (Exhibit C) shows the source of the water, storage and treatment facilities, locations, and pump stations. The system has the capacity to deliver 3.5 MGD in an average water year and 18 MGD during peak season. Average day demand is 3.8 MGD. Peak season demand is 11 MGD and is related to weather and temperature data. Compared with water right permit amounts, average and peak day production runs about 50%. Current average annual water usage is 1,250,000,000 gallons (Exhibit D). The most limiting component of the delivery system is well and pump size. This is not to be confused with the capacity of the water source. It is anticipated that the aquifer will supply all of the City's future water needs.

The system is operated by telemetry. A computer program (with back up) monitors the wells, using Qwest telephone lines for communication and allows system adjustments either manually or automatically from the control center in the Keizer water shops. In the event of an emergency, data can be read manually at each well site. Two electrical suppliers serve the City of Keizer municipal water system. Four wells are powered by
Salem Electric and ten by Portland General Electric. Each well is an independent
component of the fourteen well system and is able to be controlled individually. This allows
the City to optimize water delivery under the current water permit.

Of the 9,782 water accounts: 9,507 (97%) are residential, 256 (3%) commercial and 19
governmental. The current City of Keizer water system, based on the master plan, is
designed to include a maximum growth of 37,617 residents. The average residence is a
1,600 sq. ft. building on a 6,000 sq. ft. lot. The average age of these structures is 26 years.
The City does not have any water intensive businesses (i.e. silicon wafer manufacturing,
industrial).

Water quality issues significantly impact both surface and groundwater sources. Strict
regulations and monitoring requirements are presently in effect and apply to both types of
sources.

The Safe Drinking Water Act (SDWA) was passed by Congress in 1974. This established
a uniform set of regulations and water quality standards applicable to all public water
systems, with guidance from the Environmental Protection Agency (EPA). The City of
Keizer is in compliance with all testing mandated by the federal government and the State
of Oregon.
Section II
Water Conservation Element

The City of Keizer Water Department is aggressive in its water conservation measures and encourages the community to participate by way of a variety of programs. The following conservation measures have been, or are currently being implemented:

- Many opportunities are in place to encourage the public’s involvement in conservation. These include school and local education programs on conservation, City sponsored open houses coinciding with National Drinking Water Week, and presentations on “Using Water Wisely” to local service organizations (Rotary, Chamber of Commerce).

- The school education program has been in effect for many years. The City of Keizer considers this program so valuable there is an Education Coordinator on staff. Although the program is given to all of the 5th and 6th graders in Keizer, it is diverse enough to be tailored to a variety of audiences ranging from kindergarten through high school and adult. The presentation covers the water cycle, properties of water and a special section focusing on the City of Keizer’s water system which uses well/ground water. The City of Keizer also participates in the Oregon Children’s Groundwater Festival where students from all over the state meet to learn about water and conservation (Exhibit E).

- Due to the City’s ongoing leak detection program, unaccounted water is less than 7%. This 7% includes Fire Department training exercises and the City’s flushing of lines.

- 90% of new construction has underground irrigation systems. Low water use landscaping and efficient irrigation systems are used as incentives for prospective home buyers.

- Retrofit and fixture replacement programs to replace existing inefficient water using fixtures through Salem Electric and Portland General Electric are encouraged by the City.

- In 1984 the Keizer City Council adopted a water district financial management plan prepared by Pacific Economica. The study recommended regular rate increases, however the City Council, in an effort to keep rates down for the citizens of Keizer, has chosen to increase rates only if necessary to service the bonded debt without levying a property tax. In 2002 the City completed and implemented a new rate study and charged the rates from a high / fixed low commodity to a low / fixed high commodity rate structure which encourages conservation.

- A water re-use opportunity exists for businesses such as local carwashes. The City provides incentives for this procedure by not allowing discounts for high volumes of water and by maintaining high sewer rates for waste water.
The requirements of the water management plan have already been implemented by the City of Keizer. These include:

- Annual water audit for residential and commercial water accounts.
- All service connections are metered.
- The meter testing and maintenance program involves routine replacement in conjunction with the City's computerized Itron meter reading system, soon to be replaced by a hired meter reading company.
- A regularly scheduled leak detection program for transmission and distribution systems has been in place for the last 14 years. Less than 7% of the City's water is unaccounted for.
- In addition to the public education programs described above, the State mandated consumer confidence report has been distributed in accordance with State guidelines since the year 1999.

The method of water measurement and reporting is through the State water use reporting program, of which the City is in compliance, OAR 690, Division 85.
Section III
Long-range Water Supply Element

The City of Keizer 2001 Water System Master Plan Update (Exhibit H) evaluates the City of Keizer Water Department's needs in the area of water supply, storage and distribution with respect to providing sufficient water for both existing and future development through the year 2020. The current water system is designed to meet UGB build-out. This would serve a projected population of 37,617.

Long range water demand in the next 10-20 years depends on whether the Urban Growth Boundary for the City of Keizer is expanded. Any discussions regarding changes in the UGB will include availability of services. There is the possibility that some single family residential units could be replaced by multi-family residences, increasing water usage within the UGB. The City is taking a proactive approach by looking at several future water projects in case the need arises such as interconnecting large trunk lines to maintain constant pressure and flow for more efficient use of the wells. The Keizer Station Plan is under construction and will include light industrial and commercial buildings. An additional well and storage facility near the site will also be constructed.

Future use of the Willamette River as a source could only be possible through the construction of a treatment facility using conventional treatment methods. The costs to develop this supply as an alternative to groundwater are not reasonable at this time due to the City's commitment to wells. The City would pursue purchasing water from the City of Salem before resorting to use of the Willamette River. As the current capacity of the aquifer is expected to be able to provide all of Keizer's future water needs, the City is concentrating on the accessibility of this source.
The City of Keizer has not had any supply deficiencies in the past 10 years. There are no current capacity limitations, including the City's ability to maintain delivery during a long-term water supply shortfall.

The City of Salem's 42 inch diameter pipeline traversing the Keizer District is no longer utilized, but is still connected at one metered location with closed valves for emergency use only. Both the City of Keizer and the City of Salem have signed an Emergency Water Agreement stating that, upon request, each City will supply the other surplus water under emergency conditions (Exhibit F).

In the event of contamination of the source aquifer, the City of Keizer would enact the Emergency Water Agreement with the City of Salem until the cause of the contamination is identified and dealt with. However, the aquifer is so large that it is unlikely contamination would affect the entire source due to the low transmissivity of the water. The geographic spread of the system’s wells covers a large enough area that a well drawing water from a pocket of contamination could be shut off, and water provided by the remaining wells in uncontaminated areas of the aquifer. The sheer volume of water in the source would dilute most contaminations to undetectable amounts.

In the event of a real or potential threat to the water supply, the City has prepared a response to a diminished water supply by prohibiting certain non-essential uses of City supplied water (Exhibit G). These include both voluntary and mandatory measures. The Keizer City Council has delegated authority for implementation of this response to the Public Works Director. The Director is authorized to use discretion as to when to implement the Water Curtailment Plan and at what stage of alert. This decision is based on a number of factors including maintaining a minimum pressure in the system (40 psi) and the projected water needs of the community.

The Keizer City Council adopted the following Water Curtailment Plan December 1, 1997:

Stage One Alert- (Alert for a potential water supply shortage.) The Stage One alert is activated when the Public Works Director determines that a potential for a water shortage exists. Notification may be provided to customers through notices on utility bills, news releases to the media and/or other methods. Under Stage One, the Director has the authority to activate some or all of the voluntary curtailment measures listed below:

A. Institute a voluntary restricted watering schedule based on odd/even address numbers for residential and business customers. The voluntary schedule shall apply to all residential and commercial lawn watering and other nonessential water uses with exception as specified by the Director. Customers will be asked to restrict watering to the early morning and evening hours to avoid loss to evaporation.
B. Disseminate informational brochures on conservation methods. These are in the process of being prepared.

C. Activate conservation hotline with information on the current supply situation, voluntary measures, and conservation tips. The City of Keizer has a dedicated voice mail line that can be accessed through the main City Hall phone number, 390-3700.

D. Develop a combination of media outreach through newspaper advertisements, public service announcements, and other methods. The City has media relationships with the Statesman Journal newspaper, KeizerTimes newspaper, and CCTV, a local television station with whom the City has contracted services.

E. Provide specific notification to major water users asking for voluntary reductions in use and/or deferring nonessential use to off-peak hours. For commercial and industrial users that have developed water shortage contingency plans, provide specific notification at each stage of curtailment and ask that they implement a corresponding action. As the City does not yet have high water use commercial industry, this will be implemented as those demographics change.

F. The City Parks Department shall operate their irrigation system to achieve maximum efficiency based upon data received from their on-site weather station.

G. City uses of water hydrant and water line flushing shall be limited to essential needs.

Stage Two Alert—(Water Supply Shortage) Stage Two is activated when the Public Works Director determines that a water shortage exists. Customers shall be notified through major media sources of the request to voluntarily curtail all nonessential water use. In the event a problem is local, the City will distribute information to affected customers. Updates on the water situation shall be provided to the media regularly until Stage Two is canceled. Under Stage Two, the Director has the authority to activate some or all the measures listed below until the Director determines that the capacity to deliver adequate supplies of water is restored:

A. All Stage One measures will be implemented as appropriate.

B. Customers will be asked to voluntarily restrict all lawn watering and other nonessential uses of water as specified below:

1. No watering or irrigating of lawns, grass or turf unless it is:
   i. New lawn, grass, or turf that has been seeded or sodded after March 1 of the calendar year.
   ii. Exempted athletic fields frequently used for organized play.
Exemptions for athletic fields must be received in writing from the Director.

ii. Golf course tees and greens.

iv. Park and recreation area of a particular significance and value to the community as approved by the City Manager.

2. No use of City supplied water to wash sidewalks, walkways, streets, driveways, parking lots, or other hard surfaced areas except where necessary for public health or safety.

3. No uses of City supplied water for washing vehicles, except for commercial car washes using a system to recirculate and reuse water.

C. For parks supplied by City water, the Parks Department shall limit nonessential water use and/or irrigate only during off-peak hours as specified by the Director.

D. Hydrant and water main flushing shall be done to ensure water quality and for other emergencies only.

E. All fire districts using City water shall be notified of the Stage Two alert and requested to refrain from any training activities using City water.

Stage Three Alert—(Critical Water Supply Shortage.) Stage Three is activated when the Public Works Director determines that there is a critical water supply shortage that threatens the ability of the City to deliver essential water supplies to its customers. In the event a problem is local, the City will distribute information directly to affected customers. The Director shall immediately notify the City Manager and the Council of the situation and submit a report at the next available meeting of the Council. All media shall be notified of the situation and updated regularly on the water supply status. Under Stage Three, the Director has the authority to activate the mandatory restrictions and other measures listed below:

A. All Stage One curtailment measures shall be implemented as appropriate according to the Director.

B. Upon declaration of a Stage Three critical water supply shortage by the Director, the following mandatory restrictions on use of City supplied water will be implemented:

1. No watering or irrigating of lawns, grass or turf shall occur.

2. No use of water shall be allowed to fill swimming pools or other pools with a capacity in excess of 100 gallons.

3. No use of water shall be allowed to wash sidewalks, walkways, streets, driveways, parking lots, or other hard surfaced areas except where approved by the Director as necessary for public health and safety.
4. No use of water shall be allowed to wash vehicles, including all commercial carwashes.

5. Hydrant and water main flushing shall be done to insure water quality and for other emergencies only.

6. No City supplied water shall be used for fire district training activities.

C. Water waste prohibitions set forth in this Section will be strictly enforced. Violators may be cited pursuant to the Civil Infraction Ordinance (Ordinance No. 86-063) and water service may be interrupted for repeat violations as set forth herein.

1. It is unlawful to use or allow the use of City water in contravention of the prohibitions set forth in Section 5(B) of this Ordinance. Violators may be cited pursuant to the Civil Infraction Ordinance (Ordinance No. 86-063).

2. It is unlawful to allow waste of City water by knowingly or negligently causing, authorizing or permitting such water to escape from its intended beneficial use into any river, creek, natural watercourse, depression, lake, reservoir, storm sewer, street, highway, road, or ditch. For the purpose of this Section, "waste" means the use of water in excess of the reasonable volume necessary to meet the beneficial use. Violators may be cited under the Civil Infraction Ordinance (Ordinance No. 86-063).

3. In the event that a citation is issued during the period of activated emergency measures for a violation of this Ordinance, and the Director determines that a second violation has occurred after the date of the citation and during the same emergency curtailment period, the Director may terminate water service.
Section V
Update Schedule

A review of the Water Management Plan is scheduled every two years to see if an update is necessary based on relevancy and new rules and regulations. An unscheduled review may take place in the event the percentage of user categories change (i.e. multi-family vs single-family, commercial vs. residential).

The 2001 Master Water Plan Update originally called for a review of the Master Plan every five years. However, it has been under continuous review due to growth since build-out was projected to occur earlier than the expected 2005 date. As of 2005, there has not been a UGB change and none is expected at this time.
CITY COUNCIL, CITY OF KEIZER, STATE OF OREGON

RESOLUTION R85-144

KEIZER WATER DEPARTMENT
RULES AND REGULATIONS

WHEREAS, the City of Keizer is assuming responsibility
for the operation of the water system July 1, 1985; and
WHEREAS, the City Council wants to have in place
rules and regulations governing the operations of the water
department, and
WHEREAS, the City Council finds it advisable to have.
some continuity during the period of transition of operations
for the water system; now, therefore,

BE IT RESOLVED by the City Council of the City of
Keizer that the rules and regulations of the Keizer Water
District in effect on June 30, 1985 are adopted and promulgated
as the rules and regulations of the City of Keizer Water Depart-
ment effective July 1, 1985.

PASSED this 26 day of June, 1985.
SIGNED this 28 day of June, 1985.

Mayor

City Recorder

RESOLUTION R85-____
KEIZER
water district
... delightful suburban living

Rules
and
Regulations

OFFICE
393-1608
EMERGENCY
588-2772

ADOPTED JUNE 1967
REVISED SEPT. 1978

641 CHEMAWA RD. NE 97303
Water is the greatest bargain we have.

This is your lawn or driveway, or your own skin. Water is the best chemical you can use on anything.

SECTION I—DEFINITIONS

(A) District. The term "district" shall mean Keizer Water District, a municipal corporation.

(B) User. The term "user" shall include any person, firm or corporation actually receiving water service from the district and shall also include the owners of legal title to premises to which water service is furnished.

(C) Service Connection. The term "service connection" shall include water meters, water meter boxes and the necessary pipes, valves, stops and fittings connected therewith through which water service shall be furnished by the district between its water main and the private service connection of the user.

SECTION II—JURISDICTION AND OPERATION

(A) Legal title to the entire system, including all mains, laterals, service connections, water meters, meter boxes, reservoirs, pumping stations, fire hydrants and all other property, is vested in the district and the district has and shall at all times have the exclusive jurisdiction, possession and control thereof.

(B) No person other than an employee of the district shall be permitted to install, move, change, tamper with or in any other way interfere with any water meter.
SECTION III—APPLICATION FOR SERVICE

A. Standard Service Connection. A service connection shall be made only on the public road, on property lines where at all possible, at least 10 feet from driveways and parking areas at each point as the district may determine. A service connection shall be made only to premises which have a public road as one of its boundaries. Where the applicant is a premises border or connect with two or more public roads, the district shall determine on which road the service connection is to be installed.

B. Location of Service Connections. Any change in the location of a service connection requested by a user or required by the construction of a lane, curbing, or other work shall be made by the district and the user shall pay to the district such charge therefor as the district may from time to time establish.

C. Maximum Charge. The district shall charge a maximum service connection fee of $50.00 for any service connection to a premises which has been permitted in violation of these regulations.

D. All service connections in existence shall be kept in repair and maintained by the district at the expense of the user. Each user is required to assume responsibility for any service connection in front of the premises, and shall be liable to pay for the repair of any such service connection which has been damaged or disabled in any way. The service connection shall be maintained in good working condition and shall be disconnected from the district's mains at the request of the district, if the user is in default in payment of any charge or in violation of these regulations.

E. Time for Service. A service connection shall consist of a 3/8 inch steel water main from the district main to the premises, including all necessary water service meters and fittings and connections determined by the district to be necessary. Service connections, including water meters, larger than standard will be permitted only upon special written application to the district which reserves the right to deny the same and to install such size service connection as in its opinion will be adequate for the reasonable needs of the applicant.

F. Special Service Connections. Each User. Water service to more than one building of one ownership, either residential commercial or industrial, may be furnished through one service connection only if all of the buildings are occupied solely by and are the exclusive jurisdiction and control of the user. Each separate building owned by a user shall be served through a separate connection, if any part or the whole of such separate building is leased to another. No user shall furnish water to premises not occupied by him. Upon special application to the district, it may permit a user to furnish water temporarily through one service connection to premises not occupied by him, for which each user shall be required to pay a minimum water charge for each premise so served. Such permit may be revoked by the district at any time.

G. Special Use Requirements. Water service to an apartment house, hotel, motel, trailer park, hostel or other multiple structure shall be furnished only through one service connection.

H. Designation of District Property. Each user not cleared by the rules shall rest in the discretion of the Board of Commissioners, and its decision shall be final.

SECTION IV—PRIVATE SERVICE LINES

The user, at his own expense, shall construct his private service line from the water main to the premises he is to serve. Such private service line shall be of only new 1/2 inch or larger galvanized pipe, copper tubing or 3/4 inch extra heavy plastic tubing in accordance with the plumbing code of the State of Oregon. At such private service lines must be constructed not less than thirty inches below the level of the ground and shall have installed therein a stop and waste for drainage. The district should be consulted before the installation of a private service connection and the approval of the location of such obtained.

SECTION V—BATES AND CHARGES

A. Bates. The district shall charge a minimum charge for water service, per month, irrespective of the fact that a user may be in default in payment of any charge or in violation of these regulations.

B. Meter Reading. The user shall be responsible for the meter readings, and bills for water service will be submitted to the user monthly in advance of the amount of water used during the billing period.

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E. Meter Reading. The user shall be responsible for the meter readings, and bills for water service will be submitted to the user monthly in advance of the amount of water used during the billing period.
(C) Payment of Bills and Delinquency. All bills for water service are due on the first day of the month following the month during which water service was rendered and if not paid by the 10th day of such month, such bills are delinquent. The district may turn off the water supply to the premises for which payment is delinquent and the water service shall not be restored until past-due bills are paid, together with such other charges as may be determined by the Board as a penalty. This requirement shall not be avoided by a change in ownership of the title to premises or by a change of tenant. All bills for water service may be paid to the district either by mail or in the office of the district or at such pay stations as the district may from time to time designate.

SECTION VII—TERMINATION AND RESTORATION

(A) Termination of Service at Request of User. A user occupying premises served with water may have water service to such premises temporarily or indefinitely terminated by giving the district thirty (30) days notice in advance of the effective termination date. Such user shall pay charges for services rendered to the date of such termination.

(B) Restoration of Service at Request of User. Water service to any premises shall be reconnected at the request of the user and the full charge paid, such service may be restored at the request of the user without any additional charge.

(C) Termination of Service by District. The district shall terminate water service to premises served by it upon the occurrence of any of the following:

1. Non-Payment of Charges. The district shall terminate water service upon the delinquency of charges for water service rendered.

2. Violation of Rules and Regulations. The district shall terminate water service to any premises where the demand for service is greatly in excess of past usage or seasonal use or where such excessive demand for such premises may be detrimental or injurious to the water service furnished to others or results in inadequate service to others.

3. Violation of Rules and Regulations. The district shall terminate water service to premises where such premises or the user are in violation of any portion of these rules and regulations.

(D) Penalty. The district shall charge each user for discontinuing water service and an additional charge for restoration in all cases except where such discontinuation is at the request of the user in accordance with Paragraph A of this section.

SECTION VIII—TURN-OFF FEE

Upon request for water service, all residential and commercial customers may be required to pay such sum of money as the district determines necessary for turn-off fee. This is a non-refundable fee and is payable at the time of making application for service or occupancy of the premises.
SECTION IX—EXTENSION OF MAINS AND LATERALS

The district may extend its mains and laterals at the request of a user of customer on its own motion in accordance with the following:

(A) Extensions on Motion of District. The district may extend its mains and laterals to any property or area desired by the owner whenever, in the opinion of the district, the public convenience and welfare is best served by such construction.

At its sole discretion and where it appears equitable that the cost of such construction be apportioned, the district may apportion all or any part of the cost of the construction of such mains or laterals among such persons as may at any subsequent time apply for a service connection from said main or laterals or apply for the construction of a service connection from a lateral line from such water main extension. The charge shall be at such rate as the district may from time to time establish. No service connection shall be made by the district from the extended main nor shall a requested lateral be connected until the applicant has paid in advance to the district both the charge to him for the construction of the extended main or lateral and the standard service connection charge.

(B) Extension Request of Others. The district may extend its mains and laterals along a public road upon the written request of the owner of the property adjacent to such road. It may also extend mains and laterals through property intended to be subdivided and sold into lots for residential or commercial purposes. It shall be the policy of the Reiter Water District to require subdivision or allotting property owners to pay the full cost of all original main extensions where the line is 8" in diameter. In those cases where the size of the line is 8" or less, the district shall relay the party constructing and extending the extended water main the additional cost of providing a water main in excess of the specified 8" diameter. The cost of the 8" line will be pro-rated and allocated on a front foot basis to all allotting properties.

For unconnected properties, the per foot charge will be assessed against the property to be paid by the party extending the 8" line. If the allotting property is not paid for in full at the end of 3 years, it will be subject to assessment as delinquent, with interest.

The district shall maintain an accounting system to record the construction costs paid and amounts due. When allotting owners default, they will be remitted to the constructing party.

On all main extensions, a fire hydrant shall be installed at the locations designated by the district so as to afford the maximum fire protection coverage.

(C) Size, Location and Construction of Mains and Laterals. All extensions of mains and laterals shall be of such size, capacity and kind as the district or by a reputable water-works contractor approved by the district. The code of the state and other materials for the construction of such extensions shall be of the size, quality and shall be located as the district alone specifies or approves.

SECTION X—INSTALLATION AND USE OF FIRE HYDRANTS

Fire hydrants may be installed at locations specified by the district upon application therefor and upon payment of the cost thereof in advance to the district. The size, location, type and other factors involved with hydrants and its installation shall be governed generally by the regulations set forth in Section IX above.

(A) Use and Damage to Fire Hydrants. No person, without the express consent of the District, other than an agent of the Water or Fire District, shall open any fire hydrant or attempt to draw water from it or in any manner tamper with it.

(B) Moving a Hydrant. If a person desires to change the name, type or location of an existing fire hydrant, he shall pay all costs of such change if the district approves the change to be made.

SECTION XI—STANDBY FIRE SERVICE CONNECTIONS

The district may provide water for an automatic stand-by fire service connection upon written application therefor and upon payment in advance of estimated cost of installing such service connection. Such installation will be made only if adequate provision is made to prevent the use of water from such services for purposes other than fire extinguishing.

(A) Charges. No charge will be made for water used to extinguish accidental fires; however, a water take through a fire protection line for purposes other than fire protection shall be charged for at the rate established by the water district. Water is installed regardless of the amount of water used. Each user shall pay to the district a monthly standby charge for such fire main in the amount established by the district.

(B) Ownership of Connection. The service connection and all equipment appurtenant thereto, including the meter, shall be the sole property of the district.

(C) Pressure and Supply. It is understood and agreed that the district is without authority to furnish fire protection service and that it undertakes to furnish only water service. The district has no responsibility for loss or damage claimed to have been due to lack of adequate water supply of water pressure and that it is not to own or guarantee such pressures or facilities available in the general distribution system.

SECTION XII—PRIVATE POOLS AND TANKS

When water is desired for the filling of a swimming pool or a tank or for use in other abnormally large accumulations of water, such accumulations must be made with the district prior to the taking of such water. Permission must be obtained in writing and the water take in such large quantities will be given only if the water can be supplied through the district's facilities and if an adequate supply can at the same time be delivered to other customers.
SECTION XIII—SUBJECT TO CONTROL AT SOURCE

The supply of water available in the district originates from district-owned wells and from the facilities of the City of Salem, Oregon, which has promulgated certain rules and regulations governing the use of water and the facilities for the supply thereof. To the extent that they are not covered by the provisions of subsection 1 of this section and the definitions of the City of Salem, Oregon, shall be binding upon the users of the water district.

SECTION XIV—RESPONSIBILITY FOR EQUIPMENT

The district shall not be responsible for any damage such as the burning of equipment or appliances, the breaking of any pipe or fixture, stoppage or interruption of water supply or any other damage resulting from the shutting off of water. This includes damage to property caused by faucets, valves and other equipment that are open when the water is turned on or when turned on after a temporary shut-down.

SECTION XV—DAMAGE TO UTILITIES PROPERTY

The user shall be liable for any damage to a meter or other equipment or property owned by the district which is caused by the act of the user or his tenants, agents, employees, contractors, licensees, or permittees, including the breaking or destruction of locks by the user or others on or near a meter and any damage to a meter that may result from hot water or steam from a boiler or heater on the customer’s premises. The utility shall be reimbursed by the user for any such damage promptly on presentation of a bill.

SECTION XVI—CROSS CONNECTIONS OR PHYSICAL CONNECTIONS WITH OTHER WATER SUPPLIES OR SYSTEMS

(a) Neither cross connections nor physical connections of any kind shall be made with this water supply, whether private or public. Included in this category are all pipeline appurtenances and facilities of this district’s system and all pipes, appurtenances, pumps, tanks, storage reservoirs, facilities, equipment, appliances, etc., of other systems, whether located within or on private or public property or the premises of a water user.

(b) All plumbing within the building served by the district shall be so installed and plumbed fixtures so constructed as to prevent pollution of water supply by back-siphonage or cross-connection. Water service to any premises known or found to have such defects and hazards shall be disconnected and not restored until such defects and hazards have been eliminated.

SECTION XVII—LEAKAGE AND WASTE OF WATER

Water hurled by the district shall not be permitted to run waste and water shall not be allowed to run to prevent freezing of pipes. Leaks in private lines shall be repaired as soon as possible. The user shall be responsible for all water lost through improper use, waste of water, and other causes. The district shall not allow any reduction in the price of water on account thereof.

SECTION XVIII—INTERUPTION OF SERVICE, CHANGE OF PRESSURE

The water district may shut off the water supply at any time for any reason as necessary for repairs of the system. The district shall give the user at least 24 hours notice whenever it is known that service is to be interrupted for any appreciable length of time, if such notice can be given.

Although the water district shall endeavor to maintain a standard and uniform pressure, variation in water pressure may from time to time occur. The district shall not be liable for any loss or damage caused by or arising out of any interruption of water service or change in water pressure.

SECTION XIX—PENALTIES

(a) Non-Payment of Bills. Where service has been discon- tinued for non-payment of bills, the district may charge an amount as necessary from time to time by the board of commis- sioners for reconnection of service during regular working hours. An additional charge may be made for other than regular working hours.

(b) All Other Violations. When any other violation of these rules and regulations occurs, the district may shut off the water supply to the premises. The water service to such premises shall not be restored until a reconnect charge equal to payment of all other charges incurred, whatever that sum may be, is to be paid in ad- vance to the district before service may be restored.

(c) The provisions in this section are in addition to the rights and remedies which the district may have at law or in equity for the protection of its property and in the discharge of its public duties.

(d) All payments and penalties must be made in full before water service is restored.
MEET YOUR METER

Your water meter is the best detective in the house. It can tell whether you have sizable leaks, as well as how much water various appliances are using. All you have to do is learn its language.

All Keter meters record cubic feet just as your car’s odometer records mileage. You can multiply the figure shown by 7.5 the approximate number of gallons in one cubic foot.

The cubic foot meter on this page shows 41.872 cubic feet of water delivered to the home—or about 314.047 gallons (multiplying 41.872 by 7.5).

1. Wait for a member of the family to step into the shower and follow the same lighting routine. Check the volume consumed in one minute and multiply by the number of minutes a normal shower is to take. (You can’t move, congratulations! You have a relatively water-tight home. But if it is not, start checking hose connections, fixtures, the toilet with food coloring, remember?)

2. Sometimes a meter located outside of the house at curbside will indicate a leak when everything inside seems tight. The leak may be hidden underground in the pipe. Call a plumber for advice.

A GOOD WAY OF LIFE

Water conservation is a good way of life. Remember where water comes from and where it goes. A toilet flush uses up to seven gallons, water taps run at about five gallons a minute while waiting for hot or cold, showers use five to ten gallons a minute, and leaks can make up hundreds or even thousands of gallons a day.

It isn’t hard to conserve water, it doesn’t change our lives drastically. It’s mostly a matter of using good common sense. Think about water—and when you do, think about conserving it.

Note that these meters are never reset. To find how much you’ve used in any given period, just subtract the number on your last bill from the current meter reading.

Now, go do some checking.

1. If it’s summer, turn on the sprinkler and watch the meter dial move for precisely one minute. Multiply the number of gallons times 60 for the quantity used per hour. Then estimate how long you usually leave the sprinkler running. You may be shocked at the hundreds of gallons going onto the lawn and garden every week.
OREGON WATER RESOURCES DEPARTMENT
SUMMARY OF WATER RIGHTS FOR DETAILED WATER-USE REPORT

Reporting Entity
CITY OF KEIZER
Attn: WALLY MILL, PUBLIC WORKS DIR
PO BOX 21030
KEIZER, OR 97307-1030

USER-ID: 1140

<table>
<thead>
<tr>
<th>POD-ID</th>
<th>FACILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit: G 9771 Permitted Rate: 3.330 CFS</td>
<td></td>
</tr>
<tr>
<td>Source: DELTA WELL Permitted Use: MUNICIPAL</td>
<td></td>
</tr>
<tr>
<td>Tributary to: WILLAMETTE R Prim/Alt/Supp: PRIMARY</td>
<td></td>
</tr>
<tr>
<td>POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 26 NRSW</td>
<td></td>
</tr>
<tr>
<td>1890 FEET NORTH &amp; 2570 FEET EAST FROM SW CORNER, SECTION 26</td>
<td></td>
</tr>
</tbody>
</table>

| Permit: G 9771 Permitted Rate: 3.220 CFS |
| Source: MCNARY WELL Permitted Use: MUNICIPAL |
| Tributary to: WILLAMETTE R Prim/Alt/Supp: PRIMARY |
| POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 34 NESE |
| 1700 FEET NORTH & 960 FEET WEST FROM SE CORNER, SECTION 34 |

| Permit: G 9771 Permitted Rate: 3.020 CFS |
| Source: WEISSNER WELL Permitted Use: MUNICIPAL |
| Tributary to: WILLAMETTE R Prim/Alt/Supp: PRIMARY |
| POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 1 SWNW |
| 2500 FEET SOUTH & 960 FEET EAST FROM NW CORNER, SECTION 1 |

| Permit: G 9771 Permitted Rate: 4.090 CFS |
| Source: CHEMAMA WELL Permitted Use: MUNICIPAL |
| Tributary to: WILLAMETTE R Prim/Alt/Supp: PRIMARY |
| POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 2 NESEW |
| 470 FEET SOUTH & 1400 FEET EAST FROM NW CORNER, SECTION 2 |
### SUMMARY OF WATER RIGHTS

(Detailed Water-use Report)

<table>
<thead>
<tr>
<th>POD-ID</th>
<th>FACILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>11626</td>
<td></td>
</tr>
</tbody>
</table>

**Certificate:** 56362  
**Priority:** 7/13/1981  
**Permit:** 9771  
**Permitted Rate:** 2.430 CFS  
**Source:** CARLHAVEN EAST WELL  
**Permitted Use:** MUNICIPAL  
**TrIBUTARY to:** WILLAMETTE R  
**Prim/Alt/Supp:** PRIMARY  
**POD Location:** TOWNSHIP 7 S RANGE 3 W SECTION 2 NWSE

2700 FEET SOUTH & 2150 FEET WEST FROM NE CORNER, SECTION 2

### POD-ID 11627

**Certificate:** 56362  
**Priority:** 7/13/1981  
**Permit:** 9771  
**Permitted Rate:** 2.430 CFS  
**Source:** CARLHAVEN WEST WELL  
**Permitted Use:** MUNICIPAL  
**TrIBUTARY to:** WILLAMETTE R  
**Prim/Alt/Supp:** PRIMARY  
**POD Location:** TOWNSHIP 7 S RANGE 3 W SECTION 2 NWSE

2700 FEET SOUTH & 2150 FEET WEST FROM NE CORNER, SECTION 2

### POD-ID 11628

**Certificate:** 56362  
**Priority:** 7/13/1981  
**Permit:** 9771  
**Permitted Rate:** 0.710 CFS  
**Source:** WILLAMETTE MANOR WE  
**Permitted Use:** MUNICIPAL  
**TrIBUTARY to:** WILLAMETTE R  
**Prim/Alt/Supp:** PRIMARY  
**POD Location:** TOWNSHIP 7 S RANGE 3 W SECTION 10 NENE

760 FEET SOUTH & 270 FEET WEST FROM NE CORNER, SECTION 10

### POD-ID 11629

**Certificate:** 31411  
**Priority:** 1/30/1956  
**Permit:** 139  
**Permitted Rate:** 0.560 CFS  
**Source:** O.H. DUNCAN WELL  
**Permitted Use:** MUNICIPAL  
**TrIBUTARY to:** WILLAMETTE R  
**Prim/Alt/Supp:** PRIMARY  
**POD Location:** TOWNSHIP 7 S RANGE 3 W SECTION 10 NENE

2592.6 FT S & 1269.6 FT WM NE COR, DLC 38
SUMMARY OF WATER RIGHTS
(Detailed Water-use Report)

FACILITY:

[ ] POD-ID: 11629
Certificate: 56262
Priority: 7/13/1981
Permit: G 9771
Permitted Rate: 1,330 CFS
Source: CHERRY AVENUE WELL
Permitted Use: MUNICIPAL

[ ] POD-ID: 11630
Certificate: 50519
Priority: 6/27/1973
Permit: G 8393
Permitted Rate: 2,000 CFS
Source: WELL 1
Permitted Use: QUASI-MUNI

[ ] POD-ID: 12755
Certificate: 0
Priority: 12/31/1943
Permit: GR 2872
Permitted Rate: 450,000 GPM
Source: WELL 5
Permitted Use: MUNICIPAL

[ ] POD-ID: 12756
Certificate: 0
Priority: 12/31/1954
Permit: GR 1160
Permitted Rate: 150,000 GPM
Source: A WELL
Permitted Use: MUNICIPAL

[ ] POD-ID: 12757
Certificate: 0
Priority: 4/30/1953
Permit: GR 20
Permitted Rate: 385,000 GPM
Source: WELL 2
Permitted Use: MUNICIPAL

TRIBUTARY:

[ ] POD-ID: 11629
TrIBUTARY: WILLAMETTE R
Prim/Alt/Supp: PRIMARY

[ ] POD-ID: 11630
TrIBUTARY: CLAGETT CR
Prim/Alt/Supp: PRIMARY

[ ] POD-ID: 12755
TrIBUTARY: WILLAMETTE R
Prim/Alt/Supp: PRIMARY

[ ] POD-ID: 12756
TrIBUTARY: CLAGETT CR
Prim/Alt/Supp: PRIMARY

[ ] POD-ID: 12757
TrIBUTARY: WILLAMETTE R
Prim/Alt/Supp: PRIMARY

POD LOCATION:

[ ] POD-ID: 11629
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 11 NEM
90 FEET SOUTH & 1560 FEET EAST FROM NW CORNER, SECTION 11

[ ] POD-ID: 11630
POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 35 NWNE
925 FT S & 1540 FT W FM NE COR, S35

[ ] POD-ID: 12755
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 2 SWSW

[ ] POD-ID: 12756
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 2 SWEW
890 FEET NORTH & 100 FEET EAST FROM SW CORNER, SECTION 2

[ ] POD-ID: 12757
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 3 SWSE
Summary of Water Rights
(Detailed Water-Use Report)

[ ] POD-ID 12757 (Continuing)
Certificate: 0
Permit: GR 2868
Source: WELL 1
TrIBUTARY TO: WILLAMETTE R
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 3 SWSW

[ ] POD-ID 12759
Certificate: 0
Permit: GR 2869
Source: WELL 2
TrIBUTARY TO: CLAGETT CR
POD Location: TOWNSHIP 7 S RANGE 3 W SECTION 11 NESW

[ ] POD-ID 20924
Certificate: 50519
Permit: G 6838
Source: WELL 2
TrIBUTARY TO: CLAGETT CR
POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 35 NENE
620 FT S & 10 FT W FM NE COR. S35

[ ] POD-ID 20925
Certificate: 50519
Permit: G 6838
Source: WELL 3
TrIBUTARY TO: CLAGETT CR
POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 36 NENW
1280 FT S & 1800 FT E FM NE COR, S35

[ ] POD-ID 32045
Certificate: 0
Permit: G 11899
Source: MUNICIPAL
TrIBUTARY TO: CLAGETT CR
POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 26 SENE
800 FEET NORTH & 1500 FEET EAST FROM C1/4 CORNER, SECTION 26

[ ] POD-ID 1146
Certificate: 0
Permit: A WELL Meadow's
Source: MUNICIPAL
TrIBUTARY TO: CLAGETT CR
POD Location: TOWNSHIP 6 S RANGE 3 W SECTION 26 SENE
800 FEET NORTH & 1500 FEET EAST FROM C1/4 CORNER, SECTION 26

Facility:
Priority: 12/31/1943
Permitted Rate: 700.000 GPM
Permitted Use: MUNICIPAL

Facility:
Priority: 12/31/1948
Permitted Rate: 200.000 GPM
Permitted Use: MUNICIPAL

Facility:
Priority: 6/27/1973
Permitted Rate: 2.000 CFS
Permitted Use: QUASI-MUNI

Facility:
Priority: 6/27/1973
Permitted Rate: 2.000 CFS
Permitted Use: QUASI-MUNI

Facility:
Priority: 2/28/1992
Permitted Rate: 1.120 CFS
Permitted Use: MUNICIPAL

Facility:
Priority: 2/28/1992
Permitted Rate: 1.120 CFS
Permitted Use: MUNICIPAL

Facility:
Priority: 2/28/1992
Permitted Rate: 1.120 CFS
Permitted Use: MUNICIPAL
STATE OF OREGON
COUNTY OF MARION

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF KEIZER
931 CHIRIKNA RD NE
KEIZER, OREGON 97307-1600
(503) 382-3704

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: C-15729

SOURCE OF WATER: A WELL IN CLEAR LAKE BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 7.23 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITIZATION: MARCH 27, 2012

WELL LOCATION: SW 4 th SE 1, SECTION 23, T26S, R0W, M.N.: 980 FEET NORTH & 2320 FEET WEST FROM SE CORNER, SECTION 21

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WITHIN THE SERVICE BOUNDARY AREA OF THE CITY OF KEIZER

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter capable of reliably measuring the water use as approved by the Director. The permittee shall maintain the meter in good working order. The permittee shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

Application G-15729 Water Resources Department PERMIT G-15369
Lessons make kids water wise

By Travis Moore

Nearly 3,000 local students are "water wise" thanks to the efforts of Roland Herrara and the city public works water education program. Herrara, who moved to Keizer in 1979, took over the fledgling program five years ago when he was hired by the Public Works Department. Since then he has been teaching a new generation about the city water system, conservation and pollution.

"It was kind of a no-brainer that I step into this position," Herrara said. "I know a lot of the kids from coaching football, basketball and baseball here in Keizer. I take a lot of the same meth labs as when I was coaching. I try to keep things fun for the kids because I know they won't learn as much if it is boring." Herrara teaches one or two classes a month.

"I told them the other day that we have done about 90 classes over the five years," he said. "If you figure 30 students per class, that is a lot of kids we have taught. I have done as many as four classes in one day, but there isn't anything I can do to do more. We take part of the critical things first, but I have a fun time when I get a chance to go out to the schools." Herrara explained that he was well-received at school because he was involved in mad from working on a pipe an hour before a session last Wednesday in a sixth-grade class at Whilakor Middle School.

"The program was originally designed to teach fifth graders how to be water-wise and why it is important," Herrara said. "It has been expanded to other grades now. The neat thing is that we get the information to these kids, then they go home and tell their parents what they learned." Herrara has several information packets he sends home with the students. Most feature games which teach kids about water issues and provide conservation tips. Posters show kids in underground water systems similar to Keizer.

"It is amazing how surprised some of the kids are when I tell them some things," he said. "Tell them this they use 10 gallons of water a day. They always say, 'I didn't think that much.' That I show them all the other ways they use water on a daily basis." Herrara shows students pictures of some of Keizer's 14 wells as he teaches on the water cycle and he begins an informational video. Most of the classes give the only show about an hour, so I have changed some things to shorten the presentation," he said. "I usually bring in a water meter and show the kids how to read it and how to shut the water off.

"One class even combined a math project with the water education. They took water readings and figured out how many cubic feet of water they were using per day, per week and per month." Herrara gives a lot of the materials for the program. Herrara said.

"My goal is for kids to have an understanding of the water cycle and how it is important. They need to know that there is so much water as new water. We just keep reusing the same water. We are drinking the same water the dinosaurs did. "That is important. With Keizer growing so fast it is very important."
CHEESE WATER CHOSEN BY THE CITIZENS OF
THE BEST TASTING GROUND WATER IN OREGON FOR 1978.
Amazing Water Facts...
BE WATER WISE

USE WHAT YOU NEED AND SAVE THE REST!

55 Facts, Figures & Follies of Water Conservation
WATER SAVING IDEAS

FAUCETS

- Repair leaks
- Check all faucets, including outside hose connections for leaks
- Replace worn washers, O-rings, packing and faulty fixtures
- A periodic "leak check" (at least twice a year) should be conducted on all faucets

LEGEND

- Large Amount
- Medium Amount
- Small Amount
- Trace or negligible amount

- Don't leave water running
- Use low-flow shower heads

- Used water can often be recycled to water thirsty plants.
- Plants & shrubs: 5-gals
- Lawns: 10-gals
- Vegetable gardens: 10-gals
- Ponds and fountains: 15-gals

- Share your conservation story with us

WARNING

- Leaks in the house should not go undetected.

OTHER WATER SAVING TECHNIQUES

- Why save water?
- Water shortages, supply or price increases water and sewer taxes.
- Use less water, your utility bill goes down as well.
- Even if you’re on well water, using water reduces electric costs if pump, booster pump or water booster.
- Don’t underestimate amount of waste going to septic tank.

WATER SAVED

- Large Amount
- Medium Amount
- Small Amount
- Trace or negligible amount

- Water can be conserved by using low-flow shower heads.
- Large water savings can be made by using low-flow shower heads.
- Low-flow shower heads can save up to 6 gallons per minute.

OTHER WATER CONSERVATION MEASURES

- Appliance: Check all faucets and keep for leaks. Turn off con-
necting faucets when not in use to preserve equipment and avoid leaks.
- Water pipes: Inspect regularly for pinhole leaks or leaks in connections.
- A pinhole leak can waste up to 170 gal. water a day.

Make Every Drop Count!
Federal Way Water & Sewer
31627 First Avenue South
Federal Way, WA 98003
After-Hours Emergency: 941-2121

Seattle
941-1516
Tacoma
927-2922
By the dawn’s early light

Water Conservation at Home...
THE STORY OF DRINKING WATER
WATER CONSERVATION

A COLORING ACTIVITIES BOOK

This book belongs to...
Groundwater.

Pollute or Preserve?

It's Your Water. It's Your Choice.
This Agreement made and entered into this [6th] day of [February], 1987, by and between the City of Salem, Oregon, an Oregon municipal corporation, herein called the City of Salem, and the City of Keizer, Oregon, an Oregon municipal corporation, herein called the City of Keizer.

WITNESSED:

Whereas the City of Salem's primary water sources is located at Geren Island;

Whereas the City of Keizer's primary water source is from underground wells located in the Keizer area;

Whereas both Cities have ample water supply to serve their respective communities under normal conditions and most emergency situations;

Whereas both Cities have a desire to further develop their backup water supply capability to handle severe emergency conditions.

Now, Therefore, it is hereby mutually understood and agreed that each City will supply the other, upon request, surplus water under emergency conditions. The entire water sale agreement between the City of Salem and the City of Keizer is contained in the following sections:
SECTION I:
Each City will provide to the other surplus water only during periods of emergency, including system repair, temporary loss of supply because of power loss, contamination, or other systems breakdown. Water sold to either party will be at the existing commodity charges of the user - i.e. If Keizer uses water, the rate charged by Salem would be the Keizer commodity rate. If Salem uses water, the rate charged by Keizer would be the Salem commodity rate.

SECTION II:
An active backflow prevention program is being maintained in each system and must be continued for the life of this Agreement in accordance with Oregon Statutes.

SECTION III:
A water meter, capable of measuring flows in either direction will be installed in the existing vault on Cherry Avenue where the City of Salem's and the City of Keizer's water system join. The cost of installation and normal maintenance, operation and yearly testing will be shared equally by the City of Salem and City of Keizer.

SECTION IV:
When water is required on an emergency basis by either City, they will first notify the other City to insure that surplus water is available. The Director of Public Works is authorized to make this determination for the City of Salem and the Water Manager, is authorized to make this determination for the City of

121
Feeder. Once they receive that assurance, representatives of both cities shall operate the appropriate valves and take the appropriate meter readings.

SECTION VI:
The results of chemical analysis and bacteria counts will be supplied by the City selling emergency supply water to the City purchasing the emergency supply water.

SECTION VII:
This Agreement can be terminated without cause by either City, giving thirty (30) days written notice of such termination.

SECTION VIII:
To the extent it lawfully may under the constitution and laws of Oregon, each City agrees to indemnify, defend and save harmless the other from any actions arising from their acts, errors of the City, its officers, agents or employees.

CITY OF SALEM, OREGON
BY: [Signature]
Major
ATTEST: [Signature]
Recorder
APPROVED AS TO FORM: [Signature]
City Attorney

CITY OF KEIZER, OREGON
BY: [Signature]
Major
BY: [Signature]
Recorder
APPROVED AS TO FORM: [Signature]
City Attorney
Amendment to Emergency Water Agreement

This Amendatory Agreement is made and entered into by and between the City of Salem, Oregon, an Oregon municipal corporation ("City of Salem"), and the City of Keizer, Oregon, an Oregon municipal corporation ("City of Keizer").

WHEREAS, the parties previously entered into an "Emergency Water Agreement," dated February 6, 1987;

WHEREAS, the current "Emergency Water Agreement" states in SECTION I on Page 2 that "If Salem uses water, the rate charged by Keizer would be the Salem commodity rate";

WHEREAS, City Council of Salem, at the June 25, 2001, City Council Meeting, adopted a new Cost of Service Analysis (COSA) and rate design study prepared by CH2M-Hill and Salem City staff;

WHEREAS, the adopted Salem COSA established new commodity rates for all customers, including wholesale customers that are located outside the city limits of Salem;

WHEREAS, the City of Keizer should be considered a wholesale customer similar to the Suburban East Salem Water District and therefore the commodity rate that Salem should pay for water should be the same commodity rate charged the Suburban East Salem Water District.

NOW, THEREFORE, the parties agree as follows:

1. "Emergency Water Agreement" is amended as follows: The last sentence of SECTION I, on Page 2, which reads "If Salem uses water, the rate charged by Keizer would be the Salem commodity rate," shall be deleted and replaced by "If Salem uses water from Keizer, the rate charged by Keizer will be the same commodity rate charged the Suburban East Salem Water District."

2. Except as modified by this Agreement, the terms and conditions of the Emergency Water Agreement which this modifies remain in full force and effect.

IN WITNESS WHEREOF the parties have caused this Agreement to be signed in their respective names by their duly authorized representatives as of the dates set forth below:

City of Salem, Oregon

City of Keizer, Oregon

By: [Signature] Assistant City Manager

By: [Signature] City Manager
December 17, 2001

Tracy L. Davis, Recorder
City of Keizer
PO Box 21000
Keizer OR 97307-1000

SUBJECT: AMENDMENT TO KEIZER/SALEM EMERGENCY WATER AGREEMENT

Dear Ms. Davis:

Thanks to your City Council for approving the Amendment to the Emergency Water Agreement and, special thanks to Chris Eppley and Rob Kistler for working with Salem staff in support of this document. We believe this Agreement will be of great benefit to both cities and continues a close working relationship with the two public works departments.

Enclosed is a signed, completed Agreement for your records.

Sincerely,

[Signature]

Frank Mauldin
Public Works Director

Enclosure: Amendment to Emergency Water Agreement
cc: Tim Gerling, P.E., Assistant Public Works Director
    Paul Eckley, P.E., Operations Services Manager

ADA Accommodations Will Be Provided Upon Request
A BILL

ORDINANCE NO. 97-377

FOR

AN ORDINANCE

ADOPTING THE WATER CURTAILMENT PLAN;

PROHIBITING UNLAWFUL WATER WASTE

WHEREAS, it is critical that the City’s water supply be preserved in times of real

or potential threats to such water supply;

WHEREAS, it is appropriate to adopt this Water Curtailment Plan to provide for

the City’s response to a diminished water supply and to prohibit certain non-essential

uses of City-supplied water;

NOW, THEREFORE, the City of Keizer ordains as follows:

Section 1. SHORT TITLE. This Ordinance may be referred to as the “City of

Keizer Water Curtailment Ordinance” or the “Water Curtailment Plan”.

Section 2. DELEGATION OF AUTHORITY. The City Council of the City

of Keizer delegates authority for implementation of this Ordinance and declaration of

the various stages of alerts to the Public Works Director, hereinafter referred to as the

“Director”. This Water Curtailment Plan is self-executing without further action by the

City Council.

Section 3. STAGE ONE ALERT - Alert for a Potential Water Supply

Shortage. The Stage One alert is activated when a determination is made by the Director

that a potential for a water shortage exists. Notification may be provided to customers

Lien & Johnson
Attorneys at Law
403 E. 5th Street
Keizer, Oregon 97303
(503) 390-1635
through notices on utility bills, new releases to the media and/or other methods. Under
Stage One, the Director has the authority to activate some or all of the voluntary
curtailment measures listed below:

A. Institute a voluntary restricted watering schedule based on odd/even
address numbers for residential and business customers. The voluntary
schedule shall apply to all residential and commercial lawn watering and
other nonessential water uses with exception as specified by the Director.
Customers will be asked to restrict watering to the early morning and
evening hours to avoid loss to evaporation.

B. Disseminate informational brochures on conservation methods.

C. Activate conservation hotline with information on the current supply
situation, voluntary measures, and conservation tips.

D. Develop a combination of media outreach through newspaper
advertisements, public service announcements, and other methods.

E. Provide specific notification to major water users asking for voluntary
reductions in use and/or deferring nonessential use to off-peak hours. For
commercial and industrial users that have developed water shortage
contingency plans, provide specific notification at each stage of
curtailment and ask that they implement a corresponding action.

F. The City Parks Department shall operate their irrigation system to achieve
maximum efficiency based upon data received from their on-site weather
station.

G. City uses of water for hydrant and water line flushing shall be limited to
essential needs.

Section 4. **STAGE TWO - Water Supply Shortage.** Stage Two is activated
when a determination is made by the Director that a water shortage exists. Customers
shall be notified through major media sources of the request to voluntarily curtail all
non-essential water use. In the event a problem is local, the City will distribute
information to effected customers. Updates on the water situation shall be provided to
the media regularly until Stage Two is canceled. Under Stage Two, the Director has the
authority to activate some or all the measures listed below until the Director determines
that the capacity to deliver adequate supplies of water is restored:

A. All Stage One measures will be implemented as appropriate.

B. Customers will be asked to voluntarily restrict all lawn watering and other
non-essential uses of water as specified below:

1. No watering or irrigating of lawns, grass or turf unless it is:

   i. New lawn, grass, or turf that has been seeded or sodded
      after March 1 of the calendar year;

   ii. Exempted athletic fields frequently used for organized play.
      Exemptions for athletic fields must be received in writing
      from the Director;

   iii. Golf course tees and greens; and,

   iv. Park and recreation area of a particular significance and
       value to the community as approved by the City Manager

2. No use of City supplied water to wash sidewalks, walkways,
   streets, driveways, parking lots, or other hard surfaced areas except
   where necessary for public health or safety.

3. No use of City supplied water for washing vehicles, except for
   commercial carwashes using a system to recirculate and reuse
   water.
C. For parks supplied by City water, the Parks Department shall limit non-

essential water use and/or irrigate only during off-peak hours as specified

by the Director.

D. Hydrant and water main flushing shall be done to insure water quality and

for other emergencies only.

E. All fire districts using City water shall be notified of the Stage Two alert

and requested to refrain from any training activities using City water.

Section 5. STAGE THREE - Critical Water Supply Shortage. Stage Three is

activated when a determination is made by the Director that there is a critical water

supply shortage that threatens the ability of the City to deliver essential water supplies

to its customers. In the event a problem is local, the City will distribute information

directly to affected customers. The Director shall immediately notify the City Manager

and the Council of the situation and submit a report at the next available meeting of the

Council. All media shall be notified of the situation and updated regularly on the water

supply status. Under Stage Three, the Director has the authority to activate the

mandatory restrictions and other measures listed below:

A. All Stage One curtailment measures shall be implemented as appropriate

according to the Director.

B. Upon declaration of a Stage Three critical water supply shortage by the

Director, the following mandatory restrictions on use of City supplied

water will be implemented:

1. No watering or irrigating of lawns, grass or turf shall occur.

2. No use of water shall be allowed to fill swimming pools or other

pools with a capacity in excess of 100 gallons.
3. No use of water shall be allowed to wash sidewalks, walkways, streets, driveways, parking lots, or other hard surfaced areas except where approval by the Director as necessary for public health or safety.

4. No use of water shall be allowed to wash vehicles, including all commercial carwashes.

5. Hydrant and water main flushing shall be done to insure water quality and for other emergencies only.

6. No City supplied water shall be used for fire district training activities.

C. Water waste prohibitions set forth in this Section will be strictly enforced. Violators may be cited pursuant to the Civil Infraction Ordinance (Ordinance No. 86-063) and water service may be interrupted for repeat violations as set forth herein.

1. It is unlawful to use or allow the use of City water in contravention of the prohibitions set forth in Section 5(B) of this Ordinance. Violators may be cited pursuant to the Civil Infraction Ordinance (Ordinance No. 86-063).

2. It is unlawful to allow waste of City water by knowingly or negligently causing, authorizing or permitting such water to escape from its intended beneficial use into any river, creek, natural watercourse, depression, lake, reservoir, storm sewer, street, highway, road, or ditch. For the purpose of this Section, "waste" means the use of water in excess of the reasonable volume necessary to meet the beneficial use. Violators may be cited under the Civil Infraction Ordinance (Ordinance No. 86-063).

3. In the event that a citation is issued during the period of activated emergency measures for a violation of this Ordinance, and the Director determines that a second violation has occurred after the date of the citation and during the same emergency curtailment period, the Director may terminate water service.
Section 6. **SAVINGS CLAUSE.** Should any section or portion of this Ordinance be held unlawful or unenforceable by any court of competent jurisdiction, such decision shall apply only to the specific section, or portion thereof, directly specified in the decision. All other sections and portions of this Ordinance shall remain in full force and effect.

Section 7. **EFFECTIVE DATE.** This ordinance shall become effective thirty (30) days after its passage.

PASSED ON FIRST READING

PASSED this 1st day of December 1997.

SIGNED this 1st day of December 1997.

Mayor

City Recorder

4706COK.001
CITY OF KEIZER
KEIZER, OREGON

1982

WATER SYSTEM MASTER PLAN
UPDATE

Prepared By:
Stettler Company
Salem, Oregon
January, 2001