

**Oregon Water Resources Department
Water Right Services Division**

Water Rights Application
Number S-59416

**Final Order
Extension of Time for Permit Number S-44926
Permit Holder: City of Sutherlin**

Permit Information

Application File S-59416/ Permit S-44926

Basin 16 – Umpqua Basin / Watermaster District 15

Date of Priority: October 15, 1979

Authorized Use of Water

Source of Water: The North Umpqua River, Tributary to the Umpqua River

Purpose or Use: Municipal Use

Maximum Rate: 3.0 Cubic Feet per Second (CFS)

This Extension of Time request is being processed in accordance with Oregon Revised Statute 537.230 and 539.010(5), and Oregon Administrative Rule Chapter 690, Division 315

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

Permit S-44926 was issued by the Department on July 14, 1980. The permit called for completion of construction by October 1, 1982, and complete application of water to beneficial use by October 1, 1983. The most recent extension authorized completion of construction and complete application of water to beneficial use by October 1, 2009. On September 29, 2009, City of Sutherlin submitted an application to the Department for an extension of time for

Permit S-44926. In accordance with OAR 690-315-0050(2), on September 23, 2014, the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2050, and the time to fully apply water to beneficial use to October 1, 2050. The protest period closed November 7, 2014, in accordance with OAR 690-315-0060(1). No protest was filed.

FINDINGS OF FACT

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated September 23, 2014.

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 up to 3.0 cfs from the North Umpqua River under Permit S-44926 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of diversion of water under the permit consistent with OAR 690-086-0130(7). The required WMCP shall be submitted to the Department within 3 years of this Final Order. The amount of water used under Permit S-44926 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, on file with the Department.

The deadline established in the Extension Final Order 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 the final order may also meet the WMCP submittal requirements of other Department orders.

2. **Conditions to Maintain the Persistence of Listed Fish**

A. **Fish Persistence Target Flows**

- a. Fish persistence target flows in the North Umpqua River as recommended by ODFW are in Table 1, below; flows are to be measured in the North Umpqua River at Winchester, Oregon (USGS Gage Number 14319500, or its equivalent).

Table 1

ODFW'S RECOMMENDED FISH PERSISTENCE TARGET FLOWS IN THE NORTH UMPQUA RIVER MEASURED AT USGS GAGE 14319500, NORTH UMPQUA RIVER AT WINCHESTER, OREGON	
Month	Cubic Feet per Second
January – June	1350
July	1290
August	996
September	982
October	1190
November – December	1350

b. Alternate Streamflow Measurement Point

The location of a target flow measurement point as established in these Conditions to Maintain the Persistence of Listed Fish may be revised if the City provides evidence in writing that ODFW has determined that persistence flows may be measured at an alternate streamflow measurement point and provides an adequate description of the location of the alternate streamflow measurement point, and the Water Resources Director concurs in writing.

B. Determining Water Use Reductions – Generally

The maximum amount of the undeveloped portion of Permit S-44926 that can be diverted as a result of this fish persistence condition is determined in proportion to the amount by which the flows shown in Table 1 are missed based on a seven day rolling average¹ of mean daily flows as determined or measured by the water user in the North Umpqua River at Winchester (USGS Gage Number 14319500, or its equivalent). The percent of missed target flows is defined as:

$$(1 - [(Q_A - E) / Q_T]) \times 100\%$$

where Q_A is the actual flow measured at the designated gage based on the seven day rolling average, E is the undeveloped portion of the permit, and Q_T is the target flow (from Table 1).

The percent by which the target flow is missed applied to the undeveloped portion of the permit provides the maximum amount of undeveloped portion of

¹ Alternatively, the water user may use a single daily measurement.

the permit that can be diverted as a result of this fish persistence condition, and is defined as:

$$E - (E \times \% \text{ missed target flows}),$$

where E is the undeveloped portion of the permit, being 3.0 cfs.

When $Q_A - E \geq Q_T$, the amount of the undeveloped portion of the permit that can be diverted would not need to be reduced as a result of this fish persistence condition.

C. Consumptive Use Percentages

a. Initial Consumptive Use Percentages

The City of Sutherlin has not identified any Consumptive Use Percentages based on the return of flows to the North Umpqua River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-49649 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 maximum amount of the undeveloped portion of Permit S-49649 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.C.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 maximum amount of the undeveloped portion of Permit S-49649 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.C.f., below) is contingent upon

the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.C.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 waste water treatment facility resulting in 25% or more reductions in average monthly return flows to the North Umpqua River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-49649 that can be diverted as a result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the North Umpqua 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.C.f., below.

If such changes to either wastewater technology or the practices at the City's waste water 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.C.c., above, and receiving the Water Resources Director's concurrence with the proposed 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 maximum amount of the undeveloped portion of Permit S-49649 that can be diverted as a 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.C.c., above, and receiving the Water Resources Director's concurrence with the proposed 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 amount of the undeveloped portion of Permit S-49649 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that ends 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.C.d., or 2.C.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.

D. Examples

Example 1: Target flow met.

On September 15, the last seven mean daily flows were 975, 990, 1001, 1017, 1015, 1010 and 1008 cfs. The seven day rolling average (Q_A) is 1002 cfs. Given that the undeveloped portion of this permit (E) is 3.0 cfs, then the 7 day average of mean daily flows minus the undeveloped portion is greater than the 982 cfs target flow (Q_T) for September 15. In this example, $Q_A - E \geq Q_T$.

$$1002 - 3.0 \geq 982$$

The amount of the undeveloped portion of the permit that can be diverted would not be reduced because the target flow is considered met.

Example 2: Target flow missed.

Step 1: Given that the undeveloped portion of this permit (E) is 3.0 cfs, if on August 15, the average of the last seven mean daily flows (Q_A) was 800 cfs, and the target flow (Q_T) is 996 cfs, then the target flow would be missed by 20.0%.

$$(1 - [(800.0 - 3.0) / 996.0]) \times 100\% = 20.0\%$$

Step 2: Assuming the Consumptive Use Percentage is 62.2%² during the month of August and the utilization of this percentage is authorized, and the target flow is missed by 20.0% (from Step 1), then the amount of the undeveloped portion of the permit that could be diverted would be reduced by 12.4%.

$$(62.2\% \times 20.0\%) / 100 = 12.4\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, then the undeveloped portion of the permit would be reduced only by the % by which the target flow is missed – 20.0% in this example).

Step 3: Given that the undeveloped portion of this permit (E) is 3.0 cfs, and the undeveloped portion of the permit needs to be reduced by 12.4% (from Step 2), or 0.4 cfs, then the maximum amount of the undeveloped portion of Permit S-44926 that could be diverted as a result of this fish persistence condition is 2.6 cfs. (This maximum amount may be limited as illustrated in Step 4, below.)

$$(3.0 \times 12.4\%) / 100 = 0.4$$

$$3.0 - 0.4 = 2.6$$

Step 4: The calculated maximum amount of water that could be diverted due to the fish persistence condition may not exceed the amount of water to which the City is legally entitled to divert. In this example, if the amount of water legally authorized for diversion under this permit is 1.5 cfs (for example, authorization provided through a WMCP), then 1.5 cfs would be the maximum amount of diversion allowed under this permit, rather than 2.6 cfs from Step 3.

(Conversely, if the amount of water legally authorized for diversion under this permit is 3.0 cfs, then 2.6 cfs (from Step 3) would be the maximum amount of diversion allowed under this permit.)

3. Fish Screening Condition

The permittee shall install, maintain and operate fish screening and by-pass devised as required by the Oregon Department of Fish and Wildlife (ODFW) to prevent fish from entering the proposed diversion. The required screens and by-pass devices are to be in place, functional and approved by an ODFW representative prior to diversion of any water.

² Currently, the City of Sutherlin may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit S-49765 that can be diverted as a result of this fish persistence condition. The utilization of the Consumptive Use Percentage 62.2% is only for illustrative purposes in this example.

CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.230, 539.010(5) and OAR 690-315-0080(3).

ORDER

The extension of time for Application S-59416, Permit S-44926, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended from October 1, 2009 to October 1, 2050. The deadline for applying water to full beneficial use within the terms and conditions the permit is extended from October 1, 2009 to October 1, 2050.

DATED: November 14, 2014



Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler Director,
Oregon Water Resources Department

If you have any questions about statements contained in this document, please contact Ann L. Reece at (503) 986-0834.

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



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"Consumptive Use Percentages" Update Form

TO THE WATER RIGHTS ADMINISTRATOR OF THE OREGON WATER RESOURCES DEPARTMENT

Re: Fish Persistence Condition Applicable to:
Application S-59416 / Permit S-44926
Permit Holder: City of Sutherlin

"Consumptive Use Percentages" Updates

- For each month listed below, provide the consumptive use percentage for the purpose of calculating the maximum total amount of the undeveloped portion of Permit S-44926 that can be diverted as a result of the fish persistence condition on the extension Final Order Dated November 14, 2014.

Month	Consumptive Use Percentage	Month	Consumptive Use Percentage
January	%	July	%
February	%	August	%
March	%	September	%
April	%	October	%
May	%	November	%
June	%	December	%

- Provide a description and justification of the methods utilized to determine the percentages. Please attach additional pages as necessary.

- The use of these "Consumptive Use Percentages" for the purposes stated above may continue for a 10 year approval period unless further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates due to changes in wastewater technology and/or the wastewater treatment plant or due to relocation of the point(s) of diversion(s) and/or return flows.

Signature _____ Date _____

For OWRD use only

WRD Concur with these "Consumptive Use Percentages" Updates Yes No

Approved by: _____
 for the Water Resources Director

Date: _____