



**Final Order  
Limited License Request 948**

***Appeal Rights***

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 either 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.

***Requested Water Use***

On February 28, 2006, the Water Resources Department received completed LL request **948** from Northern Star Natural Gas LLC for the use of 133.7 cubic feet per second from the Columbia River, located in the SE ¼ SW ¼ and the SW ¼ SE ¼, Section 4 and the NE ¼ NW ¼, NW ¼ NE ¼, and the SW ¼ NE ¼, Section 9, all in Township 8 North, Range 6 West, W.M., for the purpose of suction dredging of Columbia River sediments for construction of ship berth and turning basin, for the period of January 1, 2007 through December 31, 2011.

***Authorities***

The Department may approve a limited license pursuant to its authority under ORS 537.143, 537.144 and OAR 690-340-0030.

ORS 537.143(2) authorizes the Director to revoke the right to use water under a limited license if it causes injury to any other water right or a minimum perennial streamflow.

***Findings of Fact***

1. The forms, fees and map have been submitted, as required by OAR 690-340-0030(1).
2. The Department provided public notice of the application, on March 14, 2006, as required by OAR 690-340-0030(2).
3. This limited license request is limited to an area within a single drainage basin as required by OAR 690-340-0030(3).
4. The Department has determined that there is water available for the requested use.
5. The Department has determined that there is no statutory prohibition, such as a statutory withdrawal under ORS Chapter 538, that would cause the Department to deny or further condition the proposed limited license.
6. Because this use is from surface water and has the potential to impact fish, the Department finds that fish screening is required to protect the public interest.
7. Because the use requested is longer than 120 days and because the use is in an area that has sensitive, threatened or endangered fish species, the use is subject to the Department's rules under OAR 690-33. These rules aid the Department in determining whether a proposed use will impair or be detrimental to the public interest with regard to sensitive, threatened, or endangered fish species. Jill Zarnowitz of the Oregon Department of Fish and Wildlife commented on March 27, 2006. Oregon Department of Fish and Wildlife agrees that fish screens are required.

8. The Department has received comments related to the issuance of the limited license as identified above. The comments did not cause the Department to add additional conditions or limitations.
9. Pursuant to OAR 690-340-0030(4)(5), conditions have been added with regard to notice and water-use measurement.

### ***Conclusions of Law***

The proposed water use will not impair or be detrimental to the public interest pursuant to OAR 690-340-0030(2), as limited in the order below.

### ***Order***

Therefore, pursuant to ORS 537.143, ORS 537.144, and OAR 690-340-0030, application for Limited License **948** is approved as conditioned below.

1. The period and rate of use for Limited License **948** shall be from January 1, 2007, through December 31, 2011, for the use of 133.7 cubic feet per second, for the purpose of suction dredging of Columbia River sediments for construction of ship berth and turning basin.
2. The licensee shall give notice to the Watermaster in the district where use is to occur not less than 15 days or more than 60 days in advance of using the water under the limited license. The notice shall include the location of the diversion, the quantity of water to be diverted and the intended use and place of use.
3. The licensee shall meter all water use and maintain a record of use, including the total number of hours of pumping, the total quantity pumped, and the categories of beneficial use to which the water is applied. During the period of the limited license, the record of use shall be available for review by the Department upon request, and shall be submitted to the Watermaster upon request.
4. The Director may revoke the right to use water for any reason described in ORS 537.143(2), and OAR 690-340-0030(6). Such revocation may be prompted by field regulatory activities or by any other reason.
5. Use of water under a limited license shall not have priority over any water right exercised according to a permit or certificate and shall be subordinate to all other authorized uses that rely upon the same source.
6. The licensee shall install, maintain and operate fish screening and by-pass devices as required by the Oregon Department of Fish and Wildlife to prevent fish from entering the proposed diversion. See copy of enclosed fish screening criteria for information.

Issued April           , 2006

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E. Timothy Wallin, Water Rights Program Manager, *for*  
Phillip C. Ward, Director  
Water Resources Department

Enclosures - limited license, fish screen criteria

cc: Greg Beaman, Watermaster, District 1  
Jill Zarnowitz, ODFW  
Andy Schaedel, DEQ  
Catherine Van Horn ODOE  
David E. Filippi – Stoel Rives  
File

If you need further assistance, please contact the Water Rights Section at the address, phone number, or fax number below. When contacting the Department, be sure to reference your limited license number for better service.

Remember, the use of water under the terms of this limited license is not a secure source of water. Water use can be revoked at any time. Such revocation may be prompted by field regulatory activities or many other reasons.

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## FISH SCREENING CRITERIA FOR WATER DIVERSIONS

This summary describes ODFW fish screening criteria for all fish species.

**Screen material openings for ditch (gravity) and pump screens** must provide a minimum of 27% open area:

**Perforated plate:** Openings shall not exceed 3/32 or 0.0938 inches (2.38 mm).

**Mesh/Woven wire screen:** Square openings shall not exceed 3/32 or 0.0938 inches (2.38 mm) in the narrow direction, e.g., 3/32 inch x 3/32 inch open mesh.

**Profile bar screen/Wedge wire:** Openings shall not exceed 0.0689 inches (1.75 mm) in the narrow direction.

**Screen area** must be large enough to prevent fish impact. Wetted screen area depends on the water flow rate and the approach velocity.

**Approach velocity:** The water velocity perpendicular to and approximately three inches in front of the screen face.

**Sweeping velocity:** The water velocity parallel to the screen face.

**Bypass system:** Any pipe, flume, open channel or other means of conveyance that transports fish back to the body of water from which the fish were diverted.

**Active pump screen:** Self cleaning screen that has a proven cleaning system.

**Passive pump screen:** Screen that has no cleaning system other than periodic manual cleaning.

**Screen approach velocity for ditch and active pump screens** shall not exceed 0.4 fps (feet per second) or 0.12 mps (meters per second). The wetted screen area in square feet is calculated by dividing the maximum water flow rate in cubic feet per second (1 cfs = 449 gpm) by 0.4 fps.

**Screen sweeping velocity for ditch screens** shall exceed the approach velocity. Screens greater than 4 feet in length must be angled at 45 degrees or less relative to flow. An adequate bypass system must be provided for ditch screens to safely and rapidly collect and transport fish back to the stream.

**Screen approach velocity for passive pump screens** shall not exceed 0.2 fps or 0.06 mps. The wetted screen area in square feet is calculated by dividing the maximum water flow rate by 0.2 fps. Pump rate should be less than 1 cfs.

*For further information please contact:*

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