



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

15 W Yakima Ave, Ste 200 • Yakima, WA 98902-3452 • (509) 575-2490

April 3, 2015

City of Kennewick  
ATTN: Bruce Beauchene  
PO Box 6108  
Kennewick, WA 99336

**RE: Temporary Authorization for the Beneficial Use of Water for Municipal Supply under Reservoir Application No. R4-35237**

Dear Mr. Beauchene:

This letter constitutes your TEMPORARY PERMIT under Reservoir Application Number R4-35237. This Temporary Permit authorizes the storage, recovery and beneficial use of water for municipal supply subject to the provisions include below.

On April 21, 2009, the City of Kennewick, Washington filed Application No. R4-35237 with the Washington State Department of Ecology (Ecology) for a reservoir permit. The source of water includes diversion from the Columbia River under Surface Water Certificate S4-25479C and Surface Water Permit S4-30976P, and withdrawal of groundwater under Groundwater Certificate 3897-A.

The proposed reservoir is an aquifer in Priest Rapids Member of the Wanapum Basalt Formation of the Columbia River Basalt Group. The project entails diversion of source water, treatment at the City of Kennewick's filtration water treatment plant, conveyance through the distribution system, injection into the aquifer, and withdrawal of the stored water for beneficial use. It is anticipated that water may be available for diversion between October 15, and June 15, each year and that the stored water would be recovered during the summer months for municipal supply purposes.

The proposed point of injection and withdrawal of stored water is Kennewick's Aquifer Storage and Recovery (ASR-1) well located approximately 2,500 feet north and 1000 feet west of the southeast corner of Section 17, T. 8N., R. 29E.W.M. The associated Benton County Tax Parcel No. is 1-1789-400-0001-004. This location is within the NE¼ of the SE¼ of Section 17, T. 8 N., R. 29E.W.M. in an area known as the "Southridge site."

This Temporary Permit is associated with Year 2 operations at the City's ASR-1 well. The permit is associated with an ASR grant to the City of Kennewick funded through the Columbia River Basin Development Account administered by Ecology's Office of the Columbia River. Work to be performed is described in the *Phase 4 ASR Cycle Testing and Reservoir Permit Application Completion ASR-1 Project Operations and Monitoring Work Plan*, prepared by GSI Water Solutions, Inc., dated February 2014, and approved by Ecology. The workplan is amended as described in letters from Phil Brown, of GSI Water Solutions Inc., to Ecology, dated May 30, 2014, and June 27, 2014. The specific recharge and recovery quantities and schedule to be performed under this permit are described in a letter from Phil Brown of GSI Water Solutions Inc., to Ecology, dated March 27, 2015.

Public notice of Reservoir Application No. R4-35237 was published in the Tri-City Herald of Kennewick, Washington on June 14, 2009, and June 21, 2009. No letters of protest or comments were received during the 30-day protest period.



**FILE COPY**



This project includes injection of chlorinated drinking water from Kennewick's municipal water system into the Wanapum Basalt aquifer. Ecology's Water Quality Program has conducted a review of this project and based on the information provided, determined that the benefits of the project outweigh the potential risk of adverse impacts. Kennewick must continue to follow WA DOH and US EPA guidance and requirements to minimize the formation of disinfection bi-products to the maximum extent reasonable. For the Kennewick ASR project, following the disinfection bi-product guidance and requirements is required to meet AKART and qualify to meet the groundwater quality standards for disinfection bi-products through a determination of Overriding Public Interest as recommended in WAC 173-157-200(2) and WAC 173-200-050(3)(b)(vi).

Water is available for groundwater recharge and storage for this Temporary Authorization under the terms and conditions of Surface Water Certificate S4-25479C, Surface Water Permit S4-30976P, Groundwater Certificate 3897-A, and Kennewick's March 14, 2014, Preliminary Permit. Available information indicates that Kennewick's operation of the Southridge ASR facility will not impair existing rights. Storage and withdrawal of groundwater for municipal supply using the ASR well are beneficial uses. Successful operation of Kennewick's Southridge ASR facility will reduce diversions from the Columbia River during mid to late summer and meet water quality standards while providing Kennewick water to meet peak municipal water demands. Work performed under this Temporary Authorization will further assist Ecology in developing a permit that meets the requirements of Chapters 90.03 RCW, 90.44 RCW, and 90.48 RCW, as proposed in Reservoir Permit Application No. R4-35237. Testing done under this Temporary Authorization is in the public interest and will not be detrimental to the public welfare.

This TEMPORARY AUTHORIZATION is subject to the following conditions:

1. This Temporary Authorization becomes effective immediately and will remain in effect until January 1, 2016, unless sooner revoked or revised by the Department of Ecology.
2. All expenses, risks, and liabilities incurred during testing shall be borne by the applicant. If senior water right holders, including wells exempt from permitting under RCW 90.44.050, are adversely affected during any portion of the test, or data collection activities, the test shall be terminated immediately.
3. This Temporary Authorization may be revoked if the applicant fails to comply with the terms of this Temporary Authorization.
4. The issuance of this Temporary Authorization in no way guarantees a standard permit will be issued.
5. Groundwater withdrawal for beneficial use from the ASR Well may take place between July 1, 2015, and December 31, 2015.
6. No discharge to surface waters of the state is authorized. Kennewick shall monitor any surface water discharge to ensure that any discharge water infiltrates prior to reaching surface water and does not cause excessive erosion. Water quality field parameters shall be observed during the Pilot Test, per the approved workplan. If any water quality problems are observed during any portion of the test, water quality samples shall be collected for laboratory analyses and/or the test shall be terminated immediately.

7. The anticipated schedule, volume, and rates of recharge, storage, and recovery are listed in the table below.

Recharge	April 6 to May 28, 2015 52 days @ 1,100 gpm 75 MG <sup>1</sup>
Storage	May 28 to July 13, 2015 46 days
Recovery	July 13 to Sep. 15, 2015 69.4 days @ 600 gpm <sup>2</sup> 60 MG <sup>1</sup>
Residual	15 MG <sup>2</sup>
Duration	167 days
Schedule <sup>1</sup>	April 6 to Sep. 15, 2015

- 1- Recharge rates may vary depending on pressure demands in the City's supply system.  
 2- The actual volume recovered could vary as a function of recovered water temperature.

8. The operator of the system under this authorization shall have a copy of this Temporary Authorization and be aware of the parameters and provisions and operate accordingly.
9. All water level, flow rate, temperature, pressure, water quality, and other relevant data collected as part of the ASR Cycle and Pilot Testing shall be provided to Ecology in electronic format (i.e., spreadsheet).
10. This Temporary Authorization shall in no way excuse the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including those administered by other programs of the Department of Ecology.
11. The issuance of this Temporary Authorization does not convey a right of access to or other right to use land, which you do not legally possess. Obtainment of such a right is a private matter between the applicant and owner of that land.
12. The water sources and/or transmission facilities may not be located entirely upon the land owned by the applicant. Therefore, the applicant is advised that issuance of a permit by the Department of Ecology for appropriation of waters in question does not convey a right of access to, or other right to use, land which the applicant does not legally possess.
13. Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use and data collection that are kept to meet the above conditions, and to inspect at reasonable times any measuring device used to meet the above conditions, but only to the extent otherwise allowed by law.

#### Your Right To Appeal

You have a right to appeal this decision to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this decision. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do the following within 30 days of the date of receipt of this decision:

- File your appeal and a copy of this decision with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.

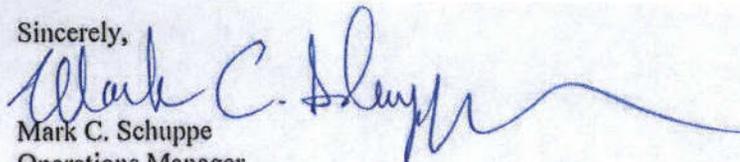
- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

Street Addresses	Mailing Addresses
<b>Department of Ecology</b> Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	<b>Department of Ecology</b> Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
<b>Pollution Control Hearings Board</b> 1111 Israel RD SW, Ste. 301 Tumwater, WA 98501	<b>Pollution Control Hearings Board</b> PO Box 40903 Olympia, WA 98504-0903

For additional information visit the Environmental Hearings Office Website: <http://www.eho.wa.gov>  
To find laws and agency rules visit the Washington State Legislature Website: <http://www.leg.wa.gov/CodeReviser>

Sincerely,



Mark C. Schuppe  
Operations Manager  
Office of Columbia River

DN:MCS:aa (150402)

Enclosures: Your Right To Be Heard

Certified Mail: 7010 0290 0000 7126 6876

cc: Philip Rigdon, Director, Natural Resources Division, Yakama Nation

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CITY OF KENNEWICK  
 ATTN: BRUCE BEAUCHENE  
 PO BOX 6108  
 KENNEWICK WA 99336

PS Form 3800, August 2006 See Reverse for Instructions

B435237 City of Kennewick #150402

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits. 150402</li> </ul>		<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee  <i>Kellie Hays</i></p> <p>B. Received by (Printed Name)  <i>Kellie Hays</i></p> <p>C. Date of Delivery  <i>4/6/15</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes        If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p>CITY OF KENNEWICK          ATTN: BRUCE BEAUCHENE          PO BOX 6108          KENNEWICK WA 99336</p>		<p>3. Service Type</p> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>2. Article Number          (Transfer from service label)</p> <p>7010 0290 0000 7126 6876</p>			

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540