DRAFT

DEPARTMENT OF ECOLOGY
State of Washington

# State of Washington
# REPORT OF EXAMINATION
# FOR WATER RIGHT APPLICATION

**PRIORITY DATE**
1/19/1995

**WATER RIGHT NUMBER**
G3-29788

**MAILING ADDRESS**
CASCADE VALLEY WATER DISTRICT
7769 STANLEY ROAD NE
MOSES LAKE WA 98837

**SITE ADDRESS (IF DIFFERENT)**

## Quantity Authorized for Withdrawal or Diversion

| WITHDRAWAL OR DIVERSION RATE | UNITS | ANNUAL QUANTITY (AF/YR) |
|---|---|---|
| DENIED | GPM | DENIED |

## Purpose

| | WITHDRAWAL OR DIVERSION RATE | | | ANNUAL QUANTITY (AF/YR) | | |
|---|---|---|---|---|---|---|
| PURPOSE | ADDITIVE | NON-ADDITIVE | UNITS | ADDITIVE | NON-ADDITIVE | PERIOD OF USE (mm/dd) |
| Multiple Domestic | DENIED | | | DENIED | | 01/01 - 12/31 |

| IRRIGATED ACRES | | PUBLIC WATER SYSTEM INFORMATION | |
|---|---|---|---|
| ADDITIVE | NON-ADDITIVE | WATER SYSTEM ID | CONNECTIONS |
| 0 | 0 | 11500 | 237 |

## Source Location

| COUNTY | WATERBODY | TRIBUTARY TO | WATER RESOURCE INVENTORY AREA |
|---|---|---|---|
| GRANT | GROUNDWATER | | 41-LOWER CRAB |

| Source Name | Parcel | Well Tag | Twp | Rng | Sec | QQ Q | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|
| Well 1, SO 1 | | AFA243 | 19N | 28E | 17 | SE¼NE¼ | 47.142128 | 119.323746 |
| Well 2, SO 2 | | AFA244 | 19N | 28E | 17 | SE¼NE¼ | 47.142187 | 119.323723 |
| Well 3, SO 3 | | | 19N | 28E | 17 | SE¼NE¼ | | |

**Findings of Facts**

Upon reviewing the investigator's report, I find all facts, relevant and material to the subject application, have been thoroughly investigated. Furthermore, I concur with the investigator that water is not available from the source in question; that there will be impairment of existing rights; that the purpose(s) of use are beneficial; and that there will be detriment to the public interest.

Therefore, I ORDER Application No. G3-29788 be DENIED.

## Your Right To Appeal

You have a right to appeal this Order to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this Order. 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 the Order.

File your appeal and a copy of this Order 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 |
|---|---|
| **Department of Ecology**<br>Attn: Appeals Processing Desk<br>300 Desmond Drive SE<br>Lacey, WA 98503<br><br>**Pollution Control Hearings Board**<br>1111 Israel Road SW Ste 301<br>Tumwater, WA 98501 | **Department of Ecology**<br>Attn: Appeals Processing Desk<br>PO Box 47608<br>Olympia, WA 98504-7608<br><br>**Pollution Control Hearings Board**<br>PO Box 40903<br>Olympia, WA 98504-0903 |

Signed at Spokane, Washington, this 18th day of July, 2012.

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Keith L. Stoffel, Section Manager

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://www1.leg.wa.gov/CodeReviser.

INVESTIGATOR'S REPORT
Application for Water Right -- Cascade Valley Water District
Water Right Number G3-29788

DRAFT

## BACKGROUND

This report serves as the written findings of fact concerning Water Right Application Number G3-29788.

This application requests a new appropriation of public groundwater from an aquifer within the Quincy Ground Water Subarea, as defined in Chapter 173-124A WAC. The Quincy Subarea was established after many years of studies, investigations, reports and hearings regarding the development of the Columbia Basin Irrigation Project (Project). The Project was designed and developed to divert irrigation water from the Columbia River (FDR Lake) into a series of canals and waterways for delivery to Project lands. The northern portion of the Columbia Basin Project has been designated as the Quincy Subarea (Chapters 173-124A WAC and 173-134A WAC).

The Quincy Subarea, commonly known as the Quincy Basin, is a saucer-like topographic and structural basin. The northern and southern boundaries are formed by the ridges of the Beezley and Frenchman Hills, respectively. The western boundary of the basin is formed by the Evergreen-Babcock Ridge, and the eastern boundary of the basin is coincident with the East Low Canal.

Irrigation blocks within the Quincy Subarea were developed in accordance with the Columbia Basin Project. By 1966, the irrigable area of the Project was approximately 290,000 acres. Drainage systems and wasteways were constructed to protect Project lands and to recover return flows and to store those flows in Potholes Reservoir behind O'Sullivan Dam. The stored water was then conveyed to the South Columbia Basin Irrigation District for beneficial use. The development of the recapture facilities was essential to complete the Project water supply.

In 1967, the State of Washington made a tentative determination that all naturally-occurring ground water in the Quincy Subarea had been appropriated. As a result of a Memorandum of Understanding with the United States Bureau of Reclamation (USBR), a five year ground water study was undertaken to verify the tentative determination that all ground water available for appropriation had been appropriated. The study, which was substantially completed by December 31, 1972, confirmed the tentative determination.

On January 15, 1973, following completion of the study and confirmation that all ground water available for appropriation in the Quincy Basin Subarea had been appropriated, the Department of Ecology designated the Quincy Ground Water Subarea pursuant to RCW 90.44.130 as Chapter 173-124 WAC. The remaining artificially stored groundwaters within the Quincy Subarea were then claimed by the Bureau of Reclamation.

By the end of 1973, approximately 3.5 million acre-feet of imported waters were stored underground within the Quincy Subarea. A permitting program was required to manage this artificially stored groundwater. The program was created through adoption of the Quincy Ground Water Subarea Management Policy (WAC 173-134A) in 1975, which was later amended in 1979.

The Quincy Subarea management policy (Chapter 173-134A WAC) includes two sections that establish maximum allowable quantities of naturally-occurring groundwater that could be appropriated for two separate management units within the Subarea, known as the shallow and deep management units (WAC 173-134A-060 and 173-134A-080). The rule also established a maximum quantity of artificially stored ground water that could be withdrawn from the Quincy Subarea, without interfering with the operation of the recapture facilities and delivery of water to the South Columbia Basin Irrigation District. The rule also established a reserved quantity of artificially stored groundwater to be used for domestic and group domestic purposes.

Since adoption of the Quincy Ground Water Subarea Management Policy (WAC 173-134A), water right applications have been on file with the Department of Ecology for many years. This application requests authorization of a permit to withdraw natural occurring groundwater from within the Quincy Subarea as described below.

**Table 1 Summary of Requested Water Right**

| | |
|---|---|
| **Applicant Name:** | Cascade Valley Water District |
| **Date of Application:** | 1/19/1995 |

| County | Waterbody | Tributary To | WRIA |
|---|---|---|---|
| Grant | Groundwater | | 41-Lower Crab |

| Purpose | Rate | Unit | Ac-ft/yr | Begin Season | End Season |
|---|---|---|---|---|---|
| Domestic multiple | 1500 | GPM | 1000 | 01/01 | 12/31 |
| | | | | | |

| Source Name | Parcel | Well Tag | Twp | Rng | Sec | QQ Q | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|
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## Legal Requirements for Approval of Appropriation of Water

### Public Notice

RCW 90.03.280 requires that notice of a water right application be published once a week, for two consecutive weeks, in a newspaper of general circulation in the county or counties where the water is to be stored, diverted and used. Notice of this application was published in the Columbia Basin Daily Herald on December 28, 1995 and January 4, 1996 and no protests were received.

### *State Environmental Policy Act (SEPA)*

A water right application is subject to a SEPA threshold determination (i.e., an evaluation whether there are likely to be significant adverse environmental impacts) if any one of the following conditions are met.

(a) It is a surface water right application for more than 1 cubic foott per second, unless that project is for agricultural irrigation, in which case the threshold is increased to 50 cubic feet per second, so long as that irrigation project will not receive public subsidies;
(b) It is a groundwater right application for more than 2,250 gallons per minute;
(c) It is an application that, in combination with other water right applications for the same project, collectively exceed the amounts above;
(d) It is a part of a larger proposal that is subject to SEPA for other reasons (e.g., the need to obtain other permits that are not exempt from SEPA);
(e) It is part of a series of exempt actions that, together, trigger the need to do a threshold determination, as defined under WAC 197-11-305.

Because this application does not meet any of these conditions, it is categorically exempt from SEPA and a threshold determination is not required.

## INVESTIGATION

A field investigation was conducted on May 3, 2012, with Ron Baker of Cascade Valley Water District. Two wells are constructed in the SE¼NE¼ of Section 17 and are in operation.

The wells were originally authorized under Ground Water Certificate 5050-A together with chg I-3-283. The certificate authorized the use of 600 gallons per minute, 145.6 acre-feet per year for community domestic supply within the Community of Cascade Valley.

In January of 2008, Cascade Valley Water District acquired a portion of Ground Water Certificate 4834-A(AH)in the amount of 103 gallons per minute, 28.2 acre-feet per year.

The Department of Health has approved the existing water system (WS 11500) for 237 connections. Based on the information, 174 connections are being used. The small water system management plan indicates the water system is using 160 acre-feet and identified capacity to continue to grow through 2015 up to 173.8 acre-feet.

The applicant was advised to file an Application requesting Artificially Stored Ground Water for the remainder of the project.

### Proposed Use and Basis of Water Demand

The application requested water for community domestic supply for 350 lots and commercial use. The application requested 1500 gallons per minute, 1000 acre-feet per year for use within the service area of the Cascade Valley Water District.

### Other Rights Appurtenant to the Place of Use

Superseding Surface Water Certificate 4887 describes these lands within the service area of the Moses Lake Irrigation District. Certificate 4887 confirms a right to store 50,000 acre-feet of water in Moses Lake for irrigation of 4174 acres within the Moses Lake Irrigation District Boundaries. The applicant indicated they are not using Moses Lake Irrigation District water within their subdivision at this time.

These lands lie within the service area of the City of Moses Lake. The applicant indicated they are not using water from the City of Moses Lake within their subdivision at this time.

Multiple small domestic exempt systems lie within the surrounding area and are not using the Cascade Valley Water District.

This land also appears to be identified within Crab Creek Adjudicated Surface Water Certificate Vol. II Page 40. The water rights of Ham, Yearly and Ryrie authorized development of inchoate lands from various points of diversion along Moses Lake arising from the Crab Creek Adjudication. The certificate was confirmed in the Crab Creek Adjudication from 1924. It is unknown if the adjudicated right was ever developed as the adjudication confirmed many rights for inchoate properties around the lake that never developed into a water right of beneficial use. The right is subject to relinquishment for non-use.

## Water Availability

For water to be available for appropriation, it must be both physically and legally available.

For water to be available for appropriation there must be ground or surface water present in quantities and quality and on a sufficiently frequent basis to provide a reasonably reliable source for the requested beneficial use or uses. In addition, the following factors are considered:

- Volume of water represented by senior water rights, including federal or tribal reserved rights or claims;
- Water right claims registered under Chapter 90.14 RCW;
- Ground water uses established in accordance with Chapter 90.44 RCW, including those that are exempt from the requirement to obtain a permit; and
- Potential riparian water rights, including non-diversionary stock water.

### Legal availability

In Chapter 173-134A WAC, the limit of natural occurring groundwater to be appropriated in the Quincy Subarea was established as 58,000 acre-feet per year from the shallow management unit and 97,901 acre-feet per year from the deep management unit. Based on an evaluation of existing water rights (permits and certificates) conducted in 1974, Ecology determined that these quantity limits had been reached, and therefore all naturally occurring public water had been allocated. The evaluation of existing water rights in 1974 did not include water right claims that were subsequently filed under the Claims Registration Act. Review of the water right claims filed between 1974 and 1998 reveals that up to an additional 35,000 acre-feet of naturally occurring groundwater could be appropriated for beneficial use under claims indicating a first use prior to 1945.

In Chapter 173-134A-080, the rule established a reservation of 4000 acre-feet annually for domestic and group domestic uses. Review of the records confirms Ecology has issued permit and certificates that exceeded the established reservation for domestic and group domestic supplies. Water is not available from the reservation.

Review of water right permits and certificates records currently on file with Ecology within the Quincy Basin indicate state-issued water right permits and certificates authorize beneficial use of approximately

157,000 acre-feet of naturally occurring groundwater each year. As much as an additional 35,000 acre-feet or naturally occurring groundwater could be used each year under water right claims.

Based on this recent review of water rights and the limits established in Chapter 173-134A, naturally occurring public waters in the Quincy Subarea have been fully appropriated and no naturally occurring public waters are legally available for issuance of a new permits.

## Impairment Considerations

Impairment is an adverse impact on the availability of water for a beneficial use that is entitled to protection. A water right application may not be approved if it would:

- Interrupt or interfere with the availability of water to an adequately constructed groundwater withdrawal facility of an existing right. An adequately constructed groundwater withdrawal facility is one that (a) is constructed in compliance with well construction requirements and (b) fully penetrates the saturated zone of an aquifer or withdraws water from a reasonable and feasible pumping lift.
- Interrupt or interfere with the availability of water at the authorized point of diversion of a surface water right. A surface water right conditioned with instream flows may be impaired if a proposed use or change would cause the flow of the stream to fall to or below the instream flow more frequently or for a longer duration than was previously the case.
- Interrupt or interfere with the flow of water allocated by rule, water rights, or court decree to instream flows.
- Degrade the water quality of the source to the point that the water is unsuitable for beneficial use by existing users (e.g., via sea water intrusion).

Issuance of a new permit to natural occurring water within the Quincy Subarea would exceed the quantity available for appropriation established by WAC 173-134A and potentially impair the ability of the Bureau of Reclamation to manage the Columbia Basin Project. The project operation required capture and reuse of waters for delivery to the South Columbia Basin lands.

Issuance of a new permit would reduce the amount of water available to be recaptured in Potholes Reservoir.

## Beneficial Use

The proposed use of water is defined in statute as a beneficial use (RCW 90.54.020(1)).

## Public Interest Considerations

The public interest is expressed in Chapter 173-134A and the established availability of water is identified. The quantity of water available to appropriate is identified in the rule that is established to protect project distribution and recapture facilities and existing water users.

The issuance of the additional water rights for the use of naturally occurring public groundwater in the Quincy Subarea is not in the public interest. Quantity limits of natural occurring ground water for appropriation established in Chapter 173-134A WAC have already been exceeded.

Landowners within the Quincy Subarea have other alternatives to obtain water rights through changes or transfers of existing water rights or filing an application to obtain a permit under the artificially stored ground water program.

### Conclusions

In conclusion, naturally occurring groundwater within the Quincy Subarea is not available for appropriation. Issuance of water right permits are not in the public interest. Issuance of a new permit could impair existing water rights including the rights of the U. S. Bureau of Reclamation that are required for the operation of the Columbia Basin Irrigation Project.

## RECOMMENDATIONS

Based on the above investigation and conclusions, I recommend that this request for a water right be DENIED.

*Kevin Brown, Report Writer* *Date*

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