



State of Washington
DRAFT
REPORT OF EXAMINATION
FOR WATER RIGHT APPLICATION

PRIORITY DATE 8/1/1989	WATER RIGHT NUMBER G3-28662
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MAILING ADDRESS REARDAN TOWN PO BOX 228 REARDAN WA 99029	SITE ADDRESS (IF DIFFERENT)
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Quantity Authorized for Withdrawal or Diversion

WITHDRAWAL OR DIVERSION RATE	UNITS	ANNUAL QUANTITY (AF/YR)
500	GPM	100.8

Purpose

PURPOSE	WITHDRAWAL OR DIVERSION RATE			ANNUAL QUANTITY (AF/YR)		PERIOD OF USE (mm/dd)
	ADDITIVE	NON-ADDITIVE	UNITS	ADDITIVE	NON-ADDITIVE	
MUNICIPAL WATER SUPPLY PURPOSES	500		GPM	100.8		01/01 - 12/31

Total withdrawal allowed by this approval and existing rights, Ground Water Certificates 228-A, 3025-A and G3-24540C is limited to 760 gallons per minute, 290.3 acre feet per year.

ADDITIVE	IRRIGATED ACRES		PUBLIC WATER SYSTEM INFORMATION	
	NON-ADDITIVE		WATER SYSTEM ID	CONNECTIONS
0	0		715507	

Source Limitations

SOURCE FACILITY/DEVICE	WITHDRAWAL OR DIVERSION RATE	ANNUAL QUANTITY (AF/YR)	PERIOD OF USE (mm/dd)
WELL	500	100.8	01/01 - 12/31

Source Location

COUNTY	WATERBODY	TRIBUTARY TO	WATER RESOURCE INVENTORY AREA
LINCOLN	GROUNDWATER		54-LOWER SPOKANE

SOURCE FACILITY/DEVICE	PARCEL	WELL TAG	TWP	RNG	SEC	QQ Q	LATITUDE	LONGITUDE
WELL			25N	39E	13	SWSE		

Datum: NAD83/WGS84

Place of Use (See Attached Map)

PARCELS (NOT LISTED FOR SERVICE AREAS)

LEGAL DESCRIPTION OF AUTHORIZED PLACE OF USE

The place of use (POU) of this water right is the service area described in the most recent Water System Plan/Small Water System Management Program approved by the Washington State Department of Health, so long as the water system is and remains in compliance with the criteria in RCW 90.03.386(2). RCW 90.03.386 may have the effect of revising the place of use of this water right.

Proposed Works

A well pump and distribution system required to supply water to municipal water supply customers

Development Schedule

BEGIN PROJECT	COMPLETE PROJECT	PUT WATER TO FULL USE
STARTED	COMPLETE	January 1, 2020

Measurement of Water Use

How often must water use be measured?	Weekly
How often must water use data be reported to Ecology?	Upon Request by Ecology
What volume should be reported?	Total Annual Volume
What rate should be reported?	Annual Peak Rate of Withdrawal (gpm or cfs)

Provisions

Total withdrawal allowed by this approval and existing rights, Ground Water Certificates 228-A, 3025-A and G3-24540C is limited to 760 gallons per minute, 290.3 acre feet per year.

Wells, Well Logs and Well Construction Standards

All wells constructed in the state shall meet the construction requirements of WAC 173-160 titled "Minimum Standards for the Construction and Maintenance of Wells" and RCW 18.104 titled "Water Well Construction". Any well which is unusable, abandoned, or whose use has been permanently discontinued, or which is in such disrepair that its continued use is impractical or is an environmental, safety or public health hazard shall be decommissioned.

All wells shall be tagged with a Department of Ecology unique well identification number. If you have an existing well and it does not have a tag, please contact the well-drilling coordinator at the regional Department of Ecology office issuing this decision. This tag shall remain attached to the well. If you are required to submit water measuring reports, reference this tag number.

Installation and maintenance of an access port as described in WAC 173-160- 291(3) is required.

Measurements, Monitoring, Metering and Reporting

An approved measuring device shall be installed and maintained for each of the sources identified by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use", WAC 173-173.

WAC 173-173 describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition the Department of Ecology for modifications to some of the requirements.

Department of Health Requirements

Prior to any new construction or alterations of a public water supply system, the State Board of Health rules require public water supply owners to obtain written approval from the Office of Drinking Water of the Washington State Department of Health. Please contact the Office of Drinking Water prior to beginning (or modifying) your project at DOH/Division of Environmental Health, 16201 E. Indiana Avenue, Suite 1500, Spokane Valley, WA 99216, (509) 329-2100.

Water Use Efficiency

The water right holder is required to maintain efficient water delivery systems and use of up-to-date water conservation practices consistent with RCW 90.03.005.

Proof of Appropriation

The water right holder shall file the notice of Proof of Appropriation of water (under which the certificate of water right is issued) when the permanent distribution system has been constructed and the quantity of water required by the project has been put to full beneficial use. The certificate will reflect the extent of the project perfected within the limitations of the permit. Elements of a proof inspection may include, as appropriate, the source(s), system instantaneous capacity, beneficial use(s), annual quantity, place of use, and satisfaction of provisions.

Schedule and Inspections

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with water law.

Findings of Facts

Upon reviewing the investigator's amended 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 available from the source in question; that there will be no impairment of existing rights; that the purpose(s) of use are beneficial; and that there will be no detriment to the public interest.

Therefore, I ORDER approval of Application No. G3-28662, subject to the amended report of examination, existing rights and the provisions specified above.

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 Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	Department of Ecology Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road SW Ste 301 Tumwater, WA 98501	Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903

Signed at Spokane, Washington, this day of 2012.

Keith L. Stoffel, Section Manager
Water Resources Program

DRAFT

BACKGROUND

This Amended Report serves as the written findings of fact concerning Water Right Application Number G3-28662.

The Town of Reardan filed application G3-28662 August 1, 1989. The Department of Ecology investigated the application and issued a Report of Examination May 22, 1995, recommending the issuance of a permit for 500 gallons per minute, 200 acre-feet per year. A permit issued to the Town of Reardan for 500 gallons per minute, 200 acre-feet per year on September 25, 1995. Over the years the Town of Reardan has expressed concern over the provision of the permit and asked to have the report revisited. The latest request for review was submitted in January of 2012.

The Department has reviewed the original report and determined the Report of Examination did contain errors and determined an Amended Report should be issued to correct the errors and clarify the water rights for the Town of Reardan.

Table 1 Summary of Requested Water Right Permit

Applicant Name	Reardan, Town of
Date of Application	8/1/1989
Place of Use	Area served by the Town of Reardan

County	Water body	Tributary to	WRIA
Lincoln	Groundwater		54-Lower Spokane

Purpose	Rate	Unit	Acre-feet/yr	Begin Season	End Season
Municipal	500	GPM	200	01/01	12/31

Source Name	Parcel	Well Tag	Twp	Rng	Sec	QQ Q	Latitude	Longitude
Well			25N	39E	13	SW¼SE¼		

Location: 360 feet north and 3310 feet east from the Southwest corner of Sec. 13

The original Report of Examination contained the following:

BACKGROUND

An application to appropriate public ground water was submitted by the Town of Reardan to the Department of Ecology on August 1, 1989. The application was accepted and assigned Ground Water Application No. G3-28662. The applicant proposes to withdraw water from two (2) wells in the amount of 500 gallons per minute, for continuous municipal supply. The wells are to be located within the S½SW¼SE¼ of Sec. 13, T. 25 N., R. 39 E.W.M., Lincoln County, Washington.

A notice of application was duly published in accordance with RCW 90.03.280; two (2) protests were received during the thirty (30) day protest period.

This application is categorically exempt from the provisions of the State Environmental Policy Act (SEPA) of 1971, Chapter 43.21C RCW.

PROTESTS

Two (2) protests against issuance of a permit for this application were received and they are as follows:

1) Jim Baye - Reardan, WA

Mr. Baye was concerned with the possibility of a decline in water levels in domestic wells. Another concern was that the Bill Kuykendall well located in Sec. 14, T. 25 N., R. 39 E.W.M. was improperly constructed.

2) William W. Robinson - Reardan, WA

Mr. Robinson was concerned that the Reardan well would cause a loss of water in his own well.

INVESTIGATION

The field investigation for this application was conducted by Gene Drury on April 14, 1992. The applicant is proposing to provide water to the Town of Reardan service area, for municipal supply from one (1) well for 500 gallons per minute. The original application is for two (2) wells.

The first 12 inch well was drilled 268 feet and yielded about 205 gallons per minute. This proved to be inadequate for the Town's long term needs. This well was capped and is not being used. The second 12 inch well was drilled 452 feet and yielded about 625 gallons per minute.

The area is underlain by the Columbia River Basalts. This thick sequence of basalt flows is interlaid with clay layers that were deposited during hiatuses between basalt eruptions. Wells within the area penetrate the basalts which generally make good producing aquifers.

Century West Engineering received authorization to construct and test two (2) wells on June 21, 1992. The subject well was constructed and a letter describing well construction, well testing, and an analysis of the test results was received from Century West Engineering on December 17, 1991. The consultant concluded that there was a limited interconnection between the upper water bearing zones (230-250 feet) and the water producing zone at 450 feet.

The transmissivity and storage of the aquifer was determined from the tests and provided to the Water Resources Program on May 11, 1992.

On October 8, 1992, Century West Engineering was requested to provide clarification for some of their conclusions contained in their report of December 13, 1991.

The method of sealing the 10 inch casing into the overlying confining unit was questioned and a plan of reconstruction was required. A copy of the raw field data gathered during the pumping test was requested.

On November 9, 1992, a response to the request was received along with information verifying the method of construction of the well. The well driller, Ponderosa Drilling and Development, submitted a clarifying statement which pointed out that the confining layer is composed of 66 feet of clay between well depths of 365 to 431 feet. The driller also stated that the 10 inch casing was driven and seated to well depth 432 feet

to maintain borehole integrity and to seal the casing to the confining formation which was in accordance with Century West Engineering design criteria and which meets the intent and requirements of Chapter 173-160 WAC.

A review of the information submitted by Century West Engineering indicates that the well is constructed in a manner which prevents the movement of water within the borehole (well) between the upper and the lower water zones and is in compliance with Chapter 173-160 WAC.

According to representatives of the Town of Reardan, the well has been in use for approximately one year. No indications of well interference, between the subject well and nearby residents, have been registered with the Department during this time. It appears that the well is not commingling aquifers.

The Town of Reardan has three (3) certificates of water rights:

- 1) 228-A: a well, 70 gallons per minute, 96 acre-feet per year for municipal supply, SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 2, T. 25 N., R. 39 E.W.M. March 15, 1948.
- 2) 3025-A: a well, 150 gallons per minute, 125 acre-feet per year, less any quantity (acre footage) appropriated under existing rights for municipal supply, SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 2, T. 25 N., R. 39 E.W.M. August 13, 1956.
- 3) G3-24540C: a well, 40 gallons per minute, 64.5 acre-feet per year for municipal supply, NE $\frac{1}{4}$, Sec. 10, T. 25 N., R. 39 E.W.M. July 31, 1975.

The section below describing the quantities of water authorized for permit is the section believed to be in error.

The present water allocation is 260 gallons per minute, 189.5 acre-feet per year, each year. Based upon a projected population increase to 600 persons by the year 2013, a total annual acre footage of 200 acre-feet is sufficient. This authorization will issue for 500 gallons per minute, 200 acre-feet per year less all that instantaneous (gallons per minute) and annual volume (acre-feet per year) withdrawn under existing rights.

This section is amended and replaced with the following section.

The intent of the application for the Town of Reardan was to increase the quantity of water for growth. As described above, the intent was to obtain sufficient water for a "projected population increase to 600 persons". The Town of Reardan believes their request was for an additional 600 persons in addition to their existing rights. A calculation of 600 persons at 150 gallons per day per person would calculate to be 100.8 acre-feet per year. This 100.8 acre-feet per year of additional annual quantity (additive to existing rights) would increase the total annual quantity for the Town of Reardan to 290.3 acre-feet per year.

The remaining portion of the original report is reviewed and the protestant conclusions remain the same.

CONSIDERATION OF PROTESTS

Jim Baye's well is located within the NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 14, T. 25 N., R. 39 E.W.M., which is approximately three quarters of a mile from the Town of Reardan well. Mr. Baye said that his well was drilled in 1977 and is approximately 148 feet deep with a pump setting of 140 feet. A well report was not available. Recently, he has not noticed a change in the production of his well.

Mr. Baye's concern regarding Mr. Kuykendall's well is outside the scope of this examination and has been turned over to the Regional Well Construction Coordinator for evaluation.

William Robinson's well is located within the NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 23, T. 25 N., R. 39 E.W.M. approximately 1.5 miles from the Town of Reardan well. A well report was not available for this well. However, Mr. Robinson said that his pump is set at approximately 60 to 70 feet, which is 20 feet below the static water level. A change in the production of his well was noticed last summer. This could have been due to the dry conditions, creating a slow recharge of the aquifer. Currently, Mr. Robinson is having no problems with his well. There is one Water Right Claim in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 23 under the name of Gerald R. and Gladys J. Stevenson: No. 065517, a well, 20 gallons per minute, domestic and stockwater, date of first use is January 1900.

Both protestants had concerns that their wells would be affected by water withdrawals from the Town of Reardan well. It appears that shallow domestic wells are not being affected by withdrawals from the Town's new well. The well has been in use for several years and there has been no conflict between protestants and the town.

AMENDED RECOMMENDATIONS

Based on the above investigation and conclusions, I recommend that this request for a water right be amended and approved in the amounts and within the limitations listed below and subject to the provisions.

Purpose of Use and Authorized Quantities

The amount of water recommended is a maximum limit and the water user may only use that amount of water within the specified limit that is reasonable and beneficial:

500 gallons per minute. (This quantity would allow this well to be pumped up to 500 gallons per minute. This quantity is allowed from this well and is considered additive to the existing water rights.)

100.8 acre-feet per year for municipal water supply purposes. (This quantity is considered additive to the existing water rights.)

Total withdrawal allowed by this approval and existing rights, Ground Water Certificates 228-A, 3025-A and G3-24540C is limited to 760 gallons per minute, 290.3 acre-feet per year.

Point of Withdrawal: 360 feet north and 3310 feet east from the Southwest corner of Sec. 13

SW¼, SE¼, Section 13, Township 25 North, Range 39 E.W.M.

Place of Use

The area served by the Town of Reardan

Kevin Brown, Report Writer

Date

If you need this publication in an alternate format, please call the Water Resources Program at (360) 407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.