

AUG 13 2015

DROUGHT RELIEF GRANT APPLICATION Water Resources Program

Application Number					
D2015					
Date					

The information provided in this application will be used to determine general eligibility for funding from the Drought Relief Program, and the priority or ranking of the proposal amongst other competing proposals.

Separate application must be made for any needed emergency drought authorization. Before final approval of grant funding, the applicant must submit copies of all required permits and other authorizations needed for the proposal to Ecology for our review.

1. Applicant Name(Public Body): Startup Water District			
Address: 14310 367th Ave SE, PO Box 114	City: Startup	State: WA	Zip: 98293
(a) Authority (State Law): RCW 57.04			
(b) Date Organized: 1956			

2. Contact Person: Nick Sanders		Title: Manager	
Address: 14310 367th Ave SE, PO Box 114	City: Startup	State: WA	Zip: 98293
Email: swd@startupwaterdistrict.com		Phone #: (360) 793-1833	

<p>3. PROJECT(S) DESCRIPTION</p> <p>Provide a description of the proposed project(s) and a detailed scope of work. Attach additional sheet(s) if necessary. Attach a map (U.S.G.S. Quad or comparable) showing the geographic location of the proposed project(s).</p> <p>The District intends to rehabilitate and redevelop their Well No. 2. The work will include pulling the existing pump, scrubbing the well screen and removing any gathered debris, and installing a new, lower horsepower pump and motor with a shield several feet lower in the well. The well is located at 14316 Kellogg Lake Road in Startup, Washington.</p>

4. DESCRIPTION OF NEED

Describe what would occur without the benefit of the proposed project(s), including: the nature of the actual hardship, both short-term and long-term impacts, the expected loss of normal water supply by percentage, and the estimated potential financial losses. Explain why these circumstances constitute a water supply emergency resulting from natural-caused drought conditions, rather than a pre-existing condition during a normal water year.

Since June 2015, Well No. 2 has not been able to pump water and the District's water source capacity has been reduced by approximately 55 percent. The District has been able to continue using Well No.1, which is only capable of approximately 75 gpm. This has made it difficult for the District to keep up with demands of their 560 customers during extended hot weather periods. Well No. 1 has had to pump for 24 hours per day for several days straight during the hottest periods. The District declared an emergency and is requesting customers to reduce usage to ease the demand on Well No. 1.

The well driller, maintenance personnel, and District engineer believe that the water table has declined due to the extended drought, and that the well needs to be cleaned and the pump lowered to allow for greater drawdown potential. This has been a seasonal but recurring issue. However, in the past it has only occurred for several weeks in the fall after the peak demand periods. If not fixed, the District will continue to have limited water supply through the remainder of the drought, and likely will have reduced supply capacity during any future droughts. This impacts overall system reliability, including the ability to replenish fire suppression storage in the event of a fire. In the short term, customers who raise livestock and have small scale agricultural operations will experience hardship due to reduced water supply and increased rates for higher usage. In the long term, potential reduced source capacity during the summer will reduce available fire flow and may impact the local economy and potential growth. It would also leave the District without an alternative source of domestic water in the event that the remaining well fails or requires extensive maintenance, which is more likely with the pump running continuously.

5. EXPECTED OUTCOME(S)

Describe how the projects would reduce or avoid harm or hardships and any measures planned to assure the capability and reliability of the proposed project(s) to provide an emergency water supply to the applicant.

Rehabilitation of Well No. 2 is intended to restore full use of the well and full source capacity to the District, assuring adequate capacity for meeting peak demands and the ability to replenish storage in the event of a fire or other high flow event. Preliminary data and studies have indicated that the well screen is likely clogged, and that there is inadequate draw down capacity currently due to the depth of the pump and the reduced aquifer level resulting from the drought. At the same time as the cleaning and lowering of the pump, the District plans to replace the pump and motor with one that better matches the capacity of the Well No. 1 pump. The current Well No. 2 pump is oversized and the District has had to throttle it back in order for it to operate in conjunction with Well No. 1. Replacing the pump will result in more consistent operation and less wear on the pump since it will be operating within a more desirable range on its curve.

6. WATER SHORTAGE RESPONSE ACTIONS ALREADY TAKEN

Describe the measures taken by the applicant to plan for or mitigate the effects of drought (e.g., conservation, irrigation efficiency measures, leakage, elimination of non-essential uses).

In early July, the District enacted an overage charge for customers who use more than 7,500 gallons per month. The District has been tracking high usage customers and are targeting them for additional conservation. Meter reports from June indicated that as many as approximately 75 connections, equating to 34 percent of the District's connections, were using more than 7,500 gallons per month and would be impacted by the additional usage fee.

Additionally, the District has undertaken significant efforts to replace the aging undersized and deteriorating asbestos-cement water mains throughout the service area since the mid 1990s in an effort to reduce leaks. The District received funding through the American Recovery and Reinvestment Act and Community Development Block Grant for water main replacements and has already replaced approximately 13,400 feet of water main with replacement of 10,700 feet still scheduled. The District also completed installing service meters within the system in 2011.

7. WATER RIGHTS

- (a) Describe whether you have or will be submitting an application for an emergency drought authorization and or have other pending water right applications

No. The District has adequate water rights, which will not be adversely impacted by the proposed well rehabilitation activities.

- (b) List the applicant's legal water rights to divert or withdraw water for use on land within the applicant's legal boundaries, and attach copies.

Certificate no. SWC-3659-A Olney Creek

Certificate no. GWC-4493-A Wells No. 1 & 2

Certificate no. G1-27580 P Wells No. 1 & 2

8. INTERGOVERNMENTAL COORDINATION

Provide a summary of how the applicant has and/or will consult with affected agencies and/or Indian Tribes prior to and during implementation of the proposed project(s). Include a list of the affected agencies and Indian Tribes and a summary of impacts/approvals if known. (Attach an additional sheet if necessary.)

Rehabilitation and redevelopment of the Startup Water District's Well No. 2 is unlikely to adversely affect neighboring jurisdictions or tribes. The project will not involve any ground disturbance and thus the potential for disturbance or discovery of cultural, archaeological or historic artifacts is low to non-existent. All work will be completed within the existing well building and within the existing developed well.

9. PROJECT(S) SCHEDULE/DURATION

(a) When do you expect to have all the required permitting, approvals, and funding?

August 2015.

(b) Approximately how long will the proposed project(s) take to complete?

Once scheduled, the project will take less than one week to complete.

(c) Expected project(s) schedule, including start date, completion date, and significant intermediary steps:

August to September 2015

10. PROJECT COMPONENTS

Check appropriate box or boxes and complete estimated cost for proposed activities under this grant.

- (a) Engineering design and report \$ _____
- (b) Project(s) plans and specifications \$ _____
- (c) Purchase of land, rights-of-way, easements \$ _____
- (d) Construction \$ 15,400
- (e) Construction engineering \$ _____
- (f) Education and outreach \$ _____
- (g) Other _____ \$ _____

11. FUND SOURCES	Estimated total project cost		Estimated eligible project cost	
(a) Total estimated project(s) cost	100 %	\$ 15,400	100 %	\$ 15,400
(b) Total estimated eligible project(s) cost	100 %	\$ 15,400	100 %	\$ 15,400
(c) Ecology grant share	50 %	\$ 7,700	100 %	\$ 15,400
(d) Match fund source(s): (specify)	%	\$	%	\$
(e) Startup Water District Rates	50 %	\$ 7,700	100 %	\$ 15,400
(f)	%	\$	%	\$
(g)	%	\$	%	\$

Applicant may be exempt under WAC 173-167-040(3) from the fund match requirement

12. CERTIFICATION

I certify to the best of my knowledge that the information in this application is true, complete, and correct and that I am legally authorized to sign and submit this information on behalf of the applicant.

Nicholas Sanders
PRINT NAME

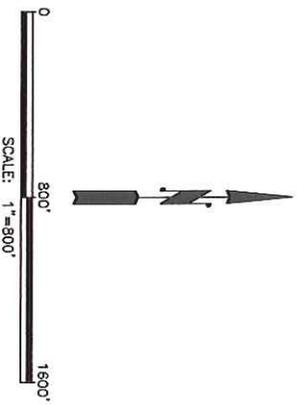
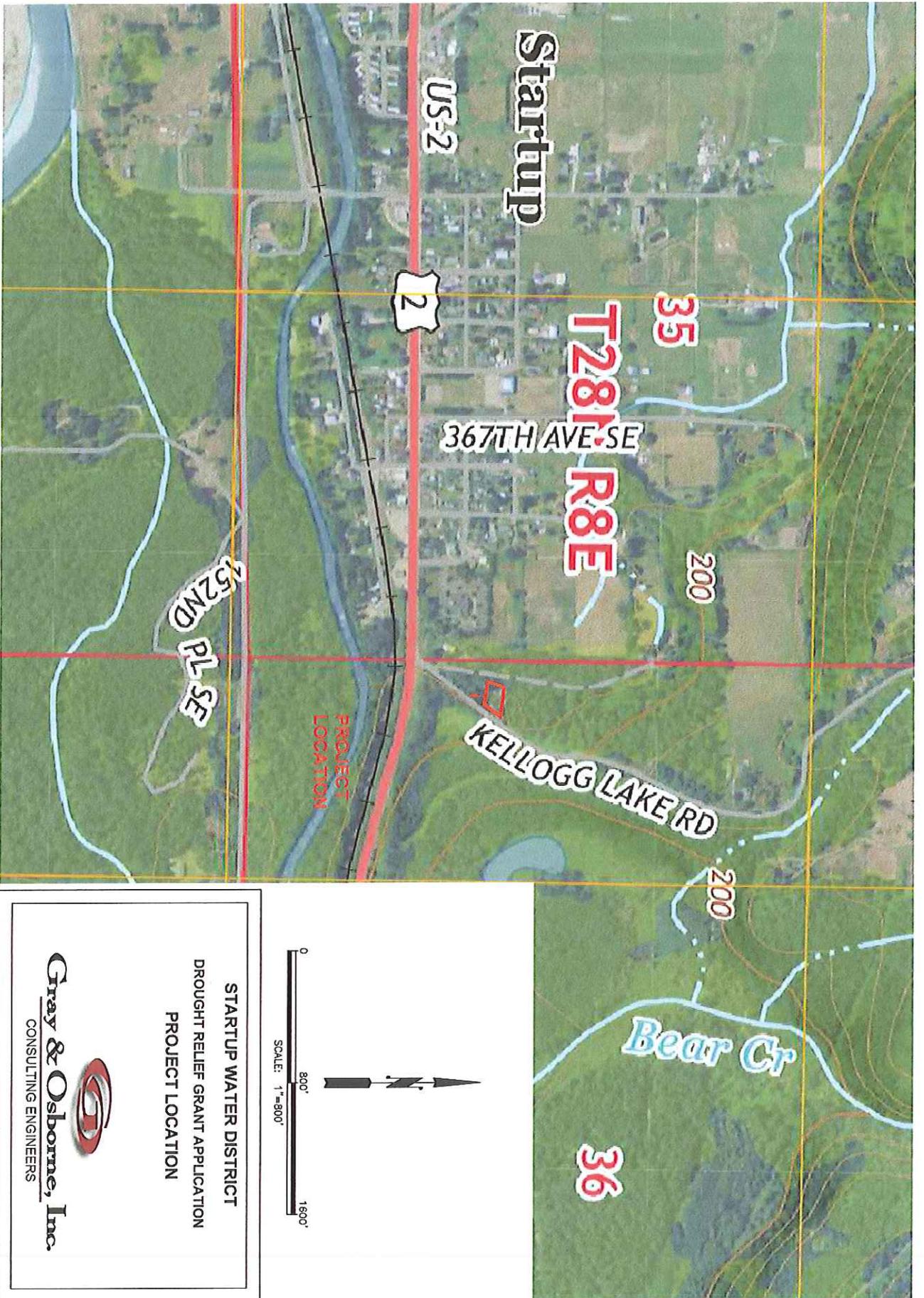
Nicholas Sanders
SIGNATURE

Manager
TITLE

8/11/15
DATE

13. Send original, including attached sheets, maps, copies of water rights, and other supporting documents, to:

**Department of Ecology
Water Resources Program
PO Box 47600
Olympia, WA 98504-7600
ATTN: Rebecca Inman**



STARTUP WATER DISTRICT
 DROUGHT RELIEF GRANT APPLICATION
 PROJECT LOCATION


Gray & Osborne, Inc.
 CONSULTING ENGINEERS

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PERMIT
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- Surface Water (used in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology)
- Ground Water (used in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology)

PRIORITY DATE January 26, 1995	APPLICATION NUMBER G1-27580	PERMIT NUMBER G1-27580 P	CERTIFICATE NUMBER
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NAME Startup Water District			
ADDRESS (STREET) 14310 367 th Avenue SE	(CITY) Startup	(STATE) Washington	(ZIP CODE) 98293

The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.

PUBLIC WATERS TO BE APPROPRIATED

SOURCE Wells (#1 and #2)		
TRIBUTARY OF (IF SURFACE WATERS) N/A		
MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 50	MAXIMUM ACRE FEET PER YEAR 80*

QUANTITY, TYPE OF USE, PERIOD OF USE
Municipal supply - continuously

*Supplemental (not accumulated or added) to
SWC 3659-B

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NW1/4 SW1/4	SECTION 36	TOWNSHIP N. 28	RANGE, (E. OR W.) W.M. 8E	W.R.L.A. 7	COUNTY Snohomish
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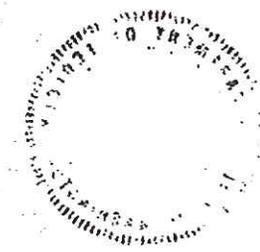
RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by the Startup Water System consistent with the Startup Water District's water system plan and periodic updates.

↑ 1/27/09
Should be
Supplemental to
SWC 3659-A,
not "B"
Buck



DESCRIPTION OF PROPOSED WORKS

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: May 14, 1999	WATER PUT TO FULL USE BY THIS DATE: May 14, 2003 2003 14
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PROVISIONS

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port.

In order to monitor the resource, static water level (SWL) shall be measured at least once each month. Measurements shall be taken after the pump has been shut off and the water level in the well has been stabilized. The data shall be maintained and made available to Ecology upon request. However, Ecology's Water Resources Section (NWRO) shall be notified if the SWL is determined to be below the level normally recorded at that time of year.

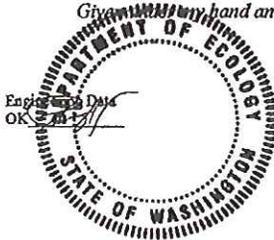
An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through 040 (installation, operation, and maintenance requirements). Meter readings shall be recorded at least monthly and this data shall be maintained and be made available to the Department of Ecology upon request.

This permit is subject to the implementation of the minimum requirements established in the Conservation Planning Requirements: Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, March 1994.

A certificate of water right will not be issued until a final investigation is made.

This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.

Given my hand and the seal of this office at Bellevue, Washington, this ²⁸ 14th day of May, 1998.



Department of Ecology
By Daniel L. Swenson
Daniel L. Swenson, Section Supervisor, Water Resources

CERTIFICATE RECORD No. 9 PAGE No. 4493-A

STATE OF WASHINGTON, COUNTY OF Snohomish

Certificate of Ground Water Right

Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1949, and amendments thereto, and the rules and regulations of the State Supervisor of Water Resources thereunder.

THIS IS TO CERTIFY That STARTUP WATER DISTRICT
of Startup, Washington, has made proof
to the satisfaction of the State Supervisor of Water Resources of Washington, of a right to the use of
the ground waters of a well
located within NW 1/4 SW 1/4
Sec. 36, Twp. 28 N., R. 6 E. W. M.,
for the purpose of Municipal supply
under and subject to provisions contained in Ground Water Permit No. 5789 issued by the State
Supervisor of Water Resources and that said right to the use of said ground waters has been perfected
in accordance with the laws of Washington, and is hereby confirmed by the State Supervisor of Water
Resources of Washington and entered of record in Volume 9 at page 4493-A;
that the right hereby confirmed dates from December 28, 1961; that the quantity of ground
water under the right hereby confirmed for the purposes aforesaid, is limited to an amount actually
beneficially used for said purposes, and shall not exceed 250 gallons per minute, 68 acre-feet
per year for municipal supply.

Special provisions required by the Supervisor of Water Resources: _____

A description of the lands to which such ground water right is appurtenant:
Area served by Startup Water District, Startup, Washington.

The right to the use of the ground water aforesaid hereby confirmed is restricted to the lands or
place of use herein described, except as provided in Sections 6 and 7, Chapter 122, Laws of 1929.

WITNESS the seal and signature of the State Supervisor of Water Resources affixed this
26th day of April, 1963.

[Signature]
State Supervisor of Water Resources.

AMENDED REPORT OF EXAMINATION
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- Ground Water (Issued in accordance with the provisions of Chapter 283, Laws of Washington for 1946, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE January 26, 1995	NUMBER G1-27580	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Startup Water District			
ADDRESS (STREET) 14310 367th Avenue SE	(CITY) Startup	(STATE) Washington	(ZIP CODE) 98293

PUBLIC WATERS TO BE APPROPRIATED

SOURCE Wells (#1 and #2)
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 50	MAXIMUM ACRE-FEET PER YEAR 80*
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QUANTITY, TYPE OF USE, PERIOD OF USE Municipal supply - continuously

*Supplemental (not accumulated or added) to SWC 3659-A

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NW ¼ SW ¼	SECTION 36	TOWNSHIP N. 28	RANGE, (E. OR W.) W.M. 8E	W.R.I.A. 7	COUNTY Snohomish
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by the Startup Water System consistent with the Startup Water District's water system plan and periodic updates.

DESCRIPTION OF PROPOSED WORKS

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Upon permit issuance	COMPLETE PROJECT BY THIS DATE: 1 year from permit issuance	WATER PUT TO FULL USE BY THIS DATE: 5 years from permit issuance
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REPORT

RECOMMENDATION:

In accordance with the STIPULATION AND AGREED ORDER FOR CONTINUANCE AND DISMISSALS UPON FULFILLMENT OF CONDITIONS issued in Pollution Control Hearings Board Case No. 96-048, Startup Water District v. Department of Ecology and the Tulalip Tribes,

I recommend that a permit be issued for G1-27580 for the mitigated instantaneous amount of 50 gallons per minute, and 80 acre-feet per year, supplemental to SWC 3659-A, for continuous municipal use, for the area served by the Startup Water System, consistent with the Startup Water District's water system plan and periodic updates. The permit is conditioned with the following provisions:

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

In order to monitor the resource, static water level (SWL) shall be measured at least once each month. Measurements shall be taken after the pump has been shut off and the water level in the well has been stabilized. The data shall be maintained and made available to Ecology upon request. However, Ecology's Water Resources Section (NWRO) shall be notified if the SWL is determined to be below the level normally recorded at that time of year. See enclosed form.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through 508-64-040 (Installation, operation and maintenance requirements enclosed). Meter readings shall be recorded monthly and this data shall be maintained and be made available to the Department of Ecology upon request.

This permit is subject to the implementation of the minimum requirements established in the Conservation Planning Requirements: Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, March 1994, which are enclosed.

A certificate of water right will not be issued until a final investigation is made.

BACKGROUND:

January 26, 1995, Startup Water District filed an application to appropriate an additional 200 gallons per minute (gpm) and 150 acre-feet per year (af/y) of groundwater from two existing wells (wells 1 and 2). The two wells are currently authorized under Water Right Certificate No. 4493-A for 250 gpm and 68 af/y. The application was assigned number G1-27580.

Ecology's Decision:

On December 29, 1995, Ecology issued a Report of Examination recommending denial of Startup's application, and on January 8, 1996, Ecology issued an order denying Startup's application.

Startup's Appeal:

On February 5, 1996, Startup timely filed an appeal to the Pollution Control Hearings Board (the Board) and was assigned PCHB No. 96-048.

On April 19, 1996, the Board granted the Tulalip Tribes Motion to Intervene in PCHB No. 96-048.

Resulting Order:

Issued July 22, 1997, PCHB No. 96-048, STIPULATION AND AGREED ORDER FOR CONTINUANCE AND DISMISSAL UPON FULFILLMENT OF CONDITIONS.

Changes to Certificates of Water Right in accordance with Stipulation and Agreed Order:

1. Surface Water Right SWC 3659, issued to the Town of Gold Bar, authorizes an instantaneous diversion of 3.00 cfs, for municipal supply, with the priority date of August 20, 1949. The certificate authorizes water use "within the corporate limits of the Town of Gold Bar-Startup Water System."

As stipulated in PCHB No. 96-048 STIPULATION AND AGREED ORDER FOR CONTINUANCE AND DISMISSAL UPON FULFILLMENT OF CONDITIONS, a change to existing Surface Water Certificate No. 3659 to transfer 0.222 cfs, 160 af/y, of the certificated 3.0 cfs (2,168 af/y based on continuous use) to the State of Washington - Trust Water Rights Program was requested through filing an application for change on June 30, 1997. (SWC 365-B)

Aug. 7, 1997
The remaining 2.778 cfs and 2,008 af/y of surface water from Olney Creek will be issued to the Startup Water District and the City of Gold Bar. The point of diversion will be changed from SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, Township 28N, Range 8E, W.M. to NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 36, Township 28N, Range 8E, W.M. The area of use for the municipal supply will remain within the corporate limits of the Towns of Gold Bar and Startup and adjacent areas served by the Gold Bar-Startup water system. (SWC 3659-A)

2. GWC 4493-A, a superseding certificate is to be issued to reflect that the 68 af/y is supplemental (not accumulated or added to) SWC 3659.
3. An Amended Report of Examination, for water right application G1-27580, is to be issued for an instantaneous amount of 50 gallons per minute and 80 af/y, supplemental (not accumulated or added) to SWC 3659-A.

INVESTIGATION:

In considering this application, the investigation included, but is not limited to, research and/or review of: (1) this application as submitted; (2) PCHB No. 96-048 STIPULATION AND AGREED ORDER FOR CONTINUANCE AND DISMISSAL UPON FULFILLMENT OF CONDITIONS, issued July 22, 1997; (3) State Water Code: Chapter 90.03 RCW, specifically, RCW 90.03.380, authorizes the appropriation of public water for beneficial use and describes the process for obtaining water rights including the process to amend or change existing rights, and chapters 90.38 and 90.42 RCW.

FINDINGS:

1. Water is available
2. The amended application is consistent with the PCHB No. 96-048 Stipulation and Agreed Order for Continuance and Dismissal upon Fulfillment of Conditions.
3. Approval of this application is in the public interest.
4. Municipal use is a beneficial use of water in accordance with RCW 90.54.020(1).
5. Senior water rights will not be impaired.

DISCUSSION:

1. Discussions with the parties resulted in mitigation which is reflected in this report of examination.
2. This permit authorizes Startup to withdraw and use sufficient water to meet its current demand, and its future growth, as projected in Startup's Water District Water System Plan with periodic updates, through the year 2015.

CONCLUSION:

In accordance with chapters 90.03 and 90.44 RCW, I find there is water available from the source in question and the appropriation as authorized will not impair existing rights or be detrimental to the public welfare. Therefore a permit for water should be approved as stipulated by PCHB ORDER No. 96-048, subject to the indicated provisions, in the amounts of 50 gpm and 80 af/y (supplemental to SWC 3659-A).

REPORT BY: *Roger Williams*

DATE: 3-23-98