

Appendix G. Certificates of Water Rights and Existing Water Rights Status Worksheets



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Risdon Well 1

Certificate G1-*08632CWRIS

STATE OF WASHINGTON DEPARTMENT OF CONSERVATION Division of Water Resources

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters OF THE STATE OF WASHINGTON

8632 Application No. G. W. 8510 &
I. City of Issaquah, Washington
Box M (Name of applicant)
of City Hall, Issaquah, Washington 98627
(Complete post office address)
do hereby make application for a permit to appropriate the following described public ground waters
of the State of Washington, subject to existing rights. This application is made under the provisions of
Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject
to the rules and regulations of the Department of Conservation, Division of Water Resources.
1. The proposed appropriation will be from Well
(Well, tunnel, infiltration trench)
located In City of Issaquah
(Give approximate distance and direction from nearest city or town)
Area Sub-area
(Leave blank) (Leave blank)
Zowa
Zone (Leave blank)
Applicant's name or number of well or other ments if any
Applicant's name or number of well or other works, if any
2. The quantity of water which applicant intends to withdraw for beneficial use is 2,000
gallons per minute; 3,220 acre feet per year.
3. The use or uses to which water is to be applied Municipal supply
3. The use or uses to which water is to be applied Mullicipal Septiments.
(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)
4. The time during which water will be required each year 12 months continuously
5. Location of well or other works for withdrawal of water: In county of King
1190'E & 720' & Com west and to a most
(a)(Give distance and bearing from nearest corner of section or legal subdivision)
being within the NW SW of Sec. 27, Twp. 24 N., Rge. 6E
Light-of way of State Hung Wo. 2, within 1 sagueth City Limit, within NW14 5W14
or (b) If within limits of recorded platted property, town or city: Lot, Block,
Issaguah
Of
(c) Show this location on accompanying section plat. Other adequate maps or drawings will
be acceptable.

(a) Well will be drilled and have a	diameter of 12	inches and an estimated
depth offeet.		
(b) Tunnels or trenches to be described: (At	tach additional sheets if	needed for full description.)
(c) Distribution system to be described:	5 10 II +- CII	11
Distribution system consist branches. 1,000,000 gal. servi		and smalled
(d) If pumps are to be used, give size and t	ype:	
8" Turbine Type		
(e) Give capacity and type of motor or engi	ne to be used:	
25 HP Electric		
(f) If the location of the well, tunnel, or oth stream or stream channel, give the distance to t difference in elevation between the stream bed an	he nearest point on each	h of such channels and the
720' to East fork of Issaqua below ground at proposed well s		s about 10 ft.
(g) Ownership of each existing well or ot within a radius of one-quarter mile and the dista reported herein:	her works from which once and direction from	ground water is withdrawn well or other works being
Darigold Company (Name)	West (Direction)	1,220 ft. (Distance)
Dan Risdon	North	230 ft.
(Name)	(Direction)	(Distance)
(Name)	(Direction)	(Distance)
SUPPLY THE FOLLOWING INFORMATION ACCOR	DING TO USE PROPOSED:	
7. For Municipal Supply: To supply the city, to	wn, or community of	Issaquah , in the
county of King , having a prese	nt population of 4,0	00 , and an estimated
population of 12,000, in 19.76.		
8. For Irrigation: Number of acres to be irriga	tedac	cres.

6. Description of Works:

filing and recording a permit. Fees for Filing and Recording Permits: There is a minimum fee of \$5.00 for

For irrigation, permit fees are as follows:

40¢ per acre-up to and including 100 acres;

20¢ per acre over 100 acres to 1,000 acres, inclusive;

10¢ per acre over 1,000 acres.

Permit fee for other uses: Twice the examination fee.

Fee for filing and recording certificate: There is a minimum fee of \$5.00.

9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed) (If more space is required, attach separate sheet)

City of Issaguah

(On accompanying plat show location of the existing wells or works) 10. What interest do you have in the above described property?	
(Owner, lessee, contract buyer, etc.)	
11. Do you have any other water rights appurtenant to the above described property	erty?
If so, from what source? Springs	nt 1087
12. Construction work will begin on or before March 1, 1967	
13. Construction work will be completed on or before April 1, 1967	
14. Water will be put to complete beneficial use on or before. May 1, 1967 HAMMOND, COLLIER & I	
By: Signature of application	City Enginee
15. Name and address of owner of land on which well or works are located:	
City of 155aquah (Address)	
(Signature of legal land	
Signed in the presence of us as witnesses:	owner)
Signed in the presence of as as astrococs.	
(Name) (Address of witner	s)
(Name) (Address of witner	s)
STATE OF WASHINGTON, COUNTY OF THURSTON.	
This is to certify that I have examined the foregoing application, together with maps and data, and return the same for correction or completion as follows:	the accompanying
In order to retain its priority, this application must be returned to the State St	upervisor of Water
Resources, with corrections, on or before, 19,	
WITNESS my hand thisday of, 19,	

State Supervisor of Water Resources.

PAGE No. 6343-A CERTIFICATE RECORD No.

King STATE OF WASHINGTON, COUNTY OF.

Certificate of Ground Water Right

Issued 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 Water Resources thereunder.

HIS IS TO CERTIFY That CITY OF ISSACUAH
Issaquah, Washington , has made pro
e satisfaction of the Department of Water Resources of Washington, of a right to the use
round waters of a
ed within right-of-way of State Highway #2, within Issaquah City Limits, within 27, Twp. 24, N. R. 6 E. W.M.
re purpose of Municipal Supply
r and subject to provisions contained in Ground Water Permit No. \$181 issued by the E
nent of Water Resources and that said right to the use of said ground waters has been perfect
accordance with the laws of Washington, and is hereby confirmed by the Department of Washington and entered of record in Volume
the right hereby confirmed dates from Harch 30, 1967 ; that the quantity of grou
er under the right hereby confirmed for the purposes aforesaid, is limited to an amount actual ficially used for said purposes, and shall not exceed 630 gallons per minute, 1000 acre-
ficially used for said purposes, and shall not exceed
t per year for municipal supply continuously during entire year for the City sequents. Special provisions required by the Department of Water Resources:

A description of the lands to which such ground water right is appurtenant:

. w . A

The City of Issaquah

The right to the use of the 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.

This certificate of ground water right is specifically subject to relinquishment for nonuse of water as provided in Section 18, Chapter 233, Laws of 1967.

WITNESS the seal and signature of the Assistant Director, Division of Water Management, Department of Water Resources affixed this 28th ...day of...

> Assistant Director Division of Water Management

Department of Water Resources

Risdon Well 2

Certificate G1-*10071CWRIS

. 6. P. No. 270-28-08-4-67.

\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON DEPARTMENT OF WATER RESOURCES Notice of Wider Minerances

141

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters OF THE STATE OF WASHINGTON

10071

of Iesaquah, Washington (Complete post office address) do hereby make application for a permit to appropriate the following described public of the State of Washington, subject to existing rights. This application is made under Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington.	
do hereby make application for a permit to appropriate the following described publi of the State of Washington, subject to existing rights. This application is made under	
if the State of Washington, subject to existing rights. This application is made under	en les les estates de la companya d
	c ground water
Then 283 of the Service Laure of 1945, and amendments thereto of the State of Washin	the provisions o
richi fan al fut mearin twite al tasa, nor michigiane incleir al tut stat al Masilii	gton and subjec
o the rules and regulations of the Department of Water Resources.	
	•
a contract and a state of the form	V 2
1. The proposed appropriation will be from a well twell, tunnel, influstion trease	i)
A discount for the second for the se	
ocated in the city of Issaquah (Give approximate distance and direction from nearest city or town)	or makes recommended to the Compact.
Area Sub-area (Leave blank) (Leave blank)	
Cleave blank)	. J.
Applicant's name or number of well or other works, if any	
3. The use or uses to which water is to be applied.	ly
(Domestic supply, firigation, municipal, manufacturing, industrial use, etc.)	
4. The time during which water will be required each year	esly an
	<u> </u>
5. Location of well or other works for withdrawal of water: In county of River	dian 27
5. Location of well or other works for withdrawal of water: In county of \$1.00 feet south from worth grown worth g	division)
Verifical 950 545 (Give distance and bearing from nearest corner of section or legal sub-	N., Rge. 6E
Verifical 950 545 (Give distance and bearing from nearest corner of section or legal subdivision) (Give analiest legal subdivision)	
(Give distance and bearing from nearest corner of section or legal subdivision) (b) If within limits of recorded platted property, town or city: Lot.	Block
(Give distance and bearing from nearest corner of section or legal subdivision) (b) If within limits of recorded platted property, town or city: Lot	Block

A Property of the second		6. Description of Works:
		(a) Well will be delled and have a diameter of 12 inches and an estimated
	نیم	depth of 185 feet.
•	ľ	(b) Tunnels or trenches to be described: (Attach additional skeets if needed for full description)
	:	
	:	
	•	
	•	(c) Distribution system to be described:
		(d) If pumps are to be used, give size and type:
		8 inch turbine
		(e) Give capacity and type of motor or cryino to be used:
	;	50 HP Electric
	•	•
	:	(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:
	:	800' to East Fork of Issaquah Creek. Stream bed is about
	•	800' to East Fork of Issaquah Creek. Stream bed is about 12' (feet) above the ground surface at the proposed site.
	•	
	The second secon	12' (feet) above the ground surface at the proposed site.
	e e e de la company de la comp	
	the second section of the sect	12' (feet) above the ground surface at the proposed site. (g) Generalip of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being
	The state of the s	(g) Convership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon North 230 feet Chismes C
	· · · · · · · · · · · · · · · · · · ·	(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: North
	· · · · · · · · · · · · · · · · · · ·	(g) Georeship of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon North 250 feet
	to the state of th	(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon North 230 feet
	The section of the se	(g) Georganic existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon
	· · · · · · · · · · · · · · · · · · ·	(g) Concreship of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon
	The state of the s	(g) Guonership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon
	The section of the se	(g) Concreship of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein: Risdon

9. Legal Description of Property on which scater is to be used for all purposes other than municipal supply:

(Copy logal description from deed)
(If more space to required, attack separate share)

AREA SERVED BY CITY OF ISSACIAH

10. What interest do you have in about	
and mineral no how work in the abone	e described property?
(Osner, Je	sice, contract buyer, etc.)
	purtenant to the above described property? Yes.
	and amounts.
	re. May 1, 1969
13. Construction work will be completed on	or before August 1, 1969
14. Water will be put to complete beneficial	use on or before August 1, 1969
	Hammond, Collier & Wade, and Associates Level W. M. Malle. (Signature of spolicent)
15. Name and address of owner of land on a	
City of Issaquah	Issaquah, Washington
(Name)	(Address)
	(Signature of legal landowner)
Signed in the presence flys as witnesses:	(Signature of legal fandowner)
(Name)	124 Buch of Juguel
and the second s	
(Name)	the second secon
(Nanio)	(Address of witness)
	(Address of witness)
TATE OF WASHINGTON, COUNTY OF THURSTON. ss. This is to certify that I have examined the	foregoing application, together with the accompanying
TATE OF WASHINGTON, COUNTY OF THURSTON. ss. This is to certify that I have examined the	foregoing application, together with the accompanying
This is to certify that I have examined the	foregoing application, together with the accompanying
TATE OF WASHINGTON, COUNTY OF THURSTON. ss. This is to certify that I have examined the	foregoing application, together with the accompanying
COUNTY OF THURSTON. Ss. This is to certify that I have examined the ps and data, and return the same for correct	foregoing application, together with the accompanying tion or completion as follows:
COUNTY OF THURSTON. Ss. This is to certify that I have examined the ps and data, and return the same for correct	foregoing application, together with the accompanying

Division of Water Management. Department of Water Resources. Report of Examination on Ground Water

Received date Harch 11, 1969 Name City of Issagneh	Date of man June 15	P. 1969
and the second s	Address.	Terrett, Herberger
Type of works	Dimensions	127 • 1881
tanking of Motive Agen entitled to	nd capped (project e	tarted)
applied for 2000		2114
TWD.	Des Des	Was
Use menicipal water supply Irrigation-screage: Present Municipal: Resolution 12 000	Planned	
resident Population re-000	as of	.976
Industrial Continu	loue3y	ಕಾಂತೇರ್ಯ ಈ ಹೇಳು ಕಾರ್ಯಹಾಗುವುದ ಕನ್ನಡ ಸಾಗ್ಯದ ಕನ್ನಡಗಳು ಮುಸ್ತಿಯಲ್ಲಿ ಮೊದ್ದಗಳು ಮಾನ್ರವಿ ಆ ಕನ್ನಡವಾಗಿ ಗಳ
Proximity to existing works, springs, wells, or lessquab, Ground Water Cart	Surface Water Cest	. No. 1087 and Granud Makey
The state of the s	The state of the s	
Area Sub-area	The second secon	Zone
Approved for 2000	COMMENDATIONS 1600	- Com 44 60

water rights. (1 acre-foot 325,850 gallons.)

一日本の日本の日本

2600

_ecre-feet per year, subject to existing

The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final cartificate of vatur right. The applicant may, for his own convenience, wish to install an air-line and sage in addition to the access port.

Use of the vaters to be appropriated under this application will be for a public vater supply. State Board of Health rules require every owner of a public vater supply to obtain written approval from the State Director of Health prior to say new construction or elterations of a public water supply. The applicant is advised to contact the Washington State Department of Health, 304 Public Health Building, Olympia, with regard to the need for compliance.

In 1968 applicants utilized 203,000,000 gallons and had an average of 1200 services. Assuming an average of four persons per services, applicants 1968 demand was 117 gallous per capita per day. Allowing for an increase in the water

usage, this application is based on a per capita demand of 130 gallons per day. For the projected population of 12,000 persons to be served by this system, the estimated water need will be 1748 acre-feet.

The recommended quantity of 1600 acre-feet per year is based on pumping this well at 2000 gallons per minute up to 50 per cent of the time each year.

Applicants have Surface Water Certificate No. 1087 for 0.50 cubic foot per second, 363 acre-feet per year, and Ground Water Certificate No. 6343 for 630 gallons per minute, 2000 acre-feet per year comprising combined rights of 1363 acre-feet per year.

Therefore, permit will issue as follows: "Issued as a symmetry right for 383 errefeet and as a supplemental right for 1215 agre-feet, the total summal withdrawel shall not exceed 1600 agre-feet, less any meant in excess of 148 agre-feet utilized under existing rights."

This application is approved for 2000 gallons per minute as requested. Applicant is reminded that the final water right certificate, when issued, will be reduced, if necessary, commensurate with the capacity of the completed system.

As provided under RCW 43.21.130, 90.03.360, 90.44.250 and 90.44.020, a mester meter shall be installed in this system to measure the total amount of the withdrawal.

Applicants attention is invited to the fact that their surface water rights on the springs are inadequate. The highest yield in one day in 1968 from the springs was 1,468,000 gallons. A continuous diversion at the rate of 2.27 cubic feet per second for 24 hours would be required to attain 1968's peak demand. Any diversion in excess of 0.50 cubic foot per second is unauthorized.

Signed at Olympia, Mashington this 15 day of 409 ,1969.

DEAN WOOD

Water Resources Inspector Division of Water Hanagement E P. Mr. 786-08-8-07

STATE OF MAJOR SECURCES DEPARTMENT OF WATER SECURCES SWEETS OF WATER SECURCES

Permit to Appropriate Public Waters of the State of Washington

Book No19_ of G	Fround Water Permits, on page 1822 un	der Application No. 16621
the state of the s	CITY OF THE STATE	
of	The same of the sa	
permit to appropriate the fo	d Examination which has been accepted by oblowing described public ground waters of t limitations and provisions set out herein.	the applicant, hereby granted a he State of Washington, subject
Priority date of this per	rmit is	
Source(a) of the propose	ed ground water appropriation is/anax	
The quantity of water ap	ppropriated shall be limited to the amount w	hich can be beneficially seemen
and not to exceed	gallons per minute;	00
be used for the following pu	rposes:sarotetpel_wist supply	
Approximate location (s):	tof the point (s)tof withdrawal is/ares. 99	
with from west quarte	C. CANTOC AL SEE L. E. L	
being within	and the second s	
of Sec	N., Rge. 6 E. W.M.,	Man Comp
The use, or uses, to which	water is to be applied:	201 T
municipal supp	ly: gallons per minu	ite;
acre-feet per year, during enti		
Irrigation: gal	llons per minute; acre-feet per y	ear from
to merinance and the second section of the section of the second section of the se	ear, for the irrigation of	The second secon
Other use(s):	_ gallons per minute;acre-feet	DET VEST. from
with the state of	h year, for the second	y y y y y y y y y y y y y y -
	Roperty on which water is to be u	ISED
Area served by Ci		

ADDITIONAL LIMITA NS ND PROVISIONS: The instal. .ion . . Il maintenance of an access port as described in Ground Water Bulletin No. shall be required prior to incurace of final Cartific Water Right. DESCRIPTION OF PROPOSED WORKS: The well will be drilled and have a diameter of 12 inches, and depth of (Day or etitle) Description of tunnel or infiltration trench: DEVELOPMENT SCHEDULE: Statted Construction work shall begin on or before ... and shall thereafter be prosecuted with reasonable diligence and completed on or before September 1, 1970 and complete application of water to proposed use shall be made on or before.

Assistant Director
Division of Water Management
Department of Water Resources

September 1, 1971

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 Water Resources on forms provided by

Given under my hand and the seal of this office at Olympia, Washington, this

ENGINEERING DATA

that Department documenting such compliance.

STATE OF WASHINGTON, COUNTY OF King

CERTIFICATE OF GROUND WATER RIGHT

and the rules and regulations of the Department of Ecology thereunder.)
This Is To Certify That CITY OF ISSAQUAH
of Issaquah, Washington , has made proo
to the satisfaction of the Department of Ecology of a right to the use of the public ground waters o
the State of Washington from a well
located within NE NW SW
Sec. 27, Twp. 24, N., R. 6, E, W.M.,
for the purpose(XX of municipal water supply
under and specifically subject to provisions contained in Ground Water Permit No. 9292
issued by the Department of Ecology and that said right to the use of said ground waters has been per
fected in accordance with the laws of Washington, and is hereby confirmed by the Department of Ecology
and entered of record in Volume
dates from March 11, 1969; that the quantity of ground water under the right hereby con
firmed for the aforesaid purposes, is limited to an amount actually beneficially used for said purposes
and shall not exceed 1200 gallons per minute; 1600 acre-feet per year, continuously
during the entire year, for municipal supply.
A description of the lands to which such ground water right is appurtenant is as follows:
Area served by City of Issaquah.
ned believe by the bridge of the best of t
The right to use of water aforesaid hereby confirmed is restricted to the lands or place of use here
described, except as provided in RCW 90.03.380, 90.03.390 and 90.44.020.
This certificate of ground water right is specifically subject to relinquishment for nonuse of water
as provided in RCW 90.14.180.
Given under my hand and seal of this office at Olympia, Washington, this
of October , 19 70.
JOHN A. BIGGS, Director

Department of Ecology

Engineering Data

	Car Course	Dullow
		Water
	TO THE PARTY OF TH	Pormit No

Certificate of Ground Water Right

Of Ground Water Right Certificates, on page, on the day of, on the day of, on the STATE OF WASHINGTON. County of		
of Ground Water Right Pertificates, on page, on the day of, on the day of		age
of Ground Wat on page day of ISHINGTON, Ashing the within was rided by me in Volum	Water Right Certificates, at	f Book o
of Ground Wat on page	corded by me in Volume	nd duly re
on page Wat day of	that the within was received	I certify
of Ground Wat rtificates, on page day of ATE OF WASHINGTON.		ounty of
rtificates, on page day of		TATE OF V
Fround Wat		9
Fround Wat	day of	
of Ground Water Right	***************************************	ertificates
	of Ground Water Right	

STATE PRINTING PLANT, OLYMPIA, WASHINGTON



City of Issagush NAME Issagush Washington 99	24Z Assigned to
G. W. APPLI. NO. 10:171 PERMIT NO.	227. Assigned to
AMENDED	CANCELLED 7031
Application received 3-11-69 Statement of additional examination for \$	Initial \$10.00 fee received 3-11-69 Sent Received Received
TEMPORARY PERMIT: Approved by	Temad
PUBLICATION: O.K.'d by Date 3-14 Protests	-69 Notice cent 3-19-69
Affidavit received and checked 7 24. Amended notice sent.	7 Time expired 3-9-69 Affidavit received Time expires
DEPT. OF GAME REPORT	The state of the s
EXAMINATION Made 6 - 19 - 69 ### O.K.'d for permit 8 - 22 - 27 Statement of permit fee sent 8 - 18 - 69	Amount 20 M
PERMIT NO 3292 ISSUED 8 -	27-69
BEGINNING OF CONSTRUCTION: Notice cant	Starles Fled
WELL DRILLER'S REPORT: Sent 8 - 28 - 6	2 Filed 9-2-69
COMPLETION OF CONSTRUCTION - Notice cont	Subserved to 9 Filed
	West . 4
Statement of certificate fee sent	Received 10 - 5 - 70
	A ICCUIPD 6 - 74

Gun Club Well 3a

Certificate G1-22733C

\$10.00 examination fee should accompany each application.
No other DOE

PRIORITY

DEPARTMENT OF WATER RESOURCES Division of Water Management

STATE OF WASHINGTON

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters

of the state of Washington

22.2 WRIA = 8 G1-22733

I. CITY OF ISSAQUAH, WASHINGTON	116	
I, CITY OF ISSAULATI, WASHINGTON (Name	of applicant)	
130 E. Sunset Way (P.O. Box M), Is	seasuah Washinoton 98027	
(Complete	post office address)	***************************************
hereby make application for a permit to appr	opriate the following described pub	lic ground waters
the State of Washington, subject to existing ri	ghts. This application is made unde	the provisions of
ap. 263 of the Session Laws of 1945, and amend	lments thereto of the State of Washi	ngton and subject
the rules and regulations of the Department		
	well	
1. The proposed appropriation will be from	(Well, tunnel, infiltration tree	ch)
- July also sign limits of Topper	nah Washinston	
ated within the city limits of Issaq (Give approximate di	istance and direction from nearest city or town)	na de la composição de la
	•	
ed(Leave blank)	Sub-area (Leave bla	nk)
(acare many)		
ne	the control of the state of the	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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oplicant's name or number of well or other wo	•	***
oplicant's name or number of well or other wo 2. The quantity of water which applicant in	tends to withdraw for beneficial use	***
oplicant's name or number of well or other wo	tends to withdraw for beneficial use	***
oplicant's name or number of well or other wo 2. The quantity of water which applicant in	tends to withdraw for beneficial use eet per year.	***
oplicant's name or number of well or other wo 2. The quantity of water which applicant in	tends to withdraw for beneficial use eet per year.	***
oplicant's name or number of well or other wo 2. The quantity of water which applicant in illons per minute; 119 acre for 3. The use or uses to which water is to be applicant.	tends to withdraw for beneficial use eet per year.	***
2. The quantity of water which applicant in acre for the use or uses to which water is to be applicated as the companion of the supply. Irrigation, mu	etends to withdraw for beneficial use eet per year. plied municipal micipal manufacturing industrial use, etc.)	îs. 300
2. The quantity of water which applicant in llons per minute; 119 acre for a line acre for a	et per year. plied municipal melipal, manufacturing, industrial use, etc.) wired each year May through O	is 300
2. The quantity of water which applicant in llons per minute; 119 acre for a line acre for a	et per year. plied municipal melipal, manufacturing, industrial use, etc.) wired each year May through O	is 300
2. The quantity of water which applicant in llons per minute; 119 acre for a see a see to which water is to be applicant in llone to the see a see a see to which water is to be applicant of the see a see	eet per year. plied municipal micipal manufacturing, industrial use, etc.) wired each year May through 0 advanced of water: In county of the county of t	is 300 croher King
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2. The quantity of water which applicant in acre for the use or uses to which water is to be applicated by the time during which water will be regionally. In the use of well or other works for with the corner of the N.W. Corner of the N.W. (a) Range 65. W.M. S5121612015.	eet per year. plied municipal micipal manufacturing, industrial use, etc.) wired each year May through 0 adrawal of water: In county of Quarter of Section 34, 7248, for 3049.1 the d bearing from nearest corner of section or legal	is 300 croher King subdivision)
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	168 feet.	grifica)			و مياند. <u>د سيانون رسيسي</u>	
_	Tunnels or trenches to	• or outlands	Assants a Elitin	nal chapts if ne	eded for full	description.)
(b)	Tunnels or trenches to	o be described: (Attuen additio	intersucces if he	caca joi jano	
		4.				
; ·						
(c)	Distribution system	to be described				
	Water from said we which in turn ente	ell shall be p era the existi	umped through ng city water	r distributio	n system.	201
٠.	WILLIAM SULL SULL				÷ - '-,'	
•					•	÷ ',
(d)	If pumps are to be			A STATE OF THE STA	1.	
,	Pumping system ha	s not been des o its capacity	igned at thi	s time. Desi	gn is await	ing
				and a		
(e)	Give capacity and t	ype of motor or	engine to ve u			
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	er is to the used in utt hur hose	Sy figure 1 come in contractions
 Legal Description of Property on which wat ply: 	at to be so than you are properly	•
(Copy legal des	eription from deed)	
(If more space is requi	red, attach separate sheet)	
Well #3 is located in a portion of th	e southeast quarter of the	e northwest
quarter of Section 34, Township 24 No	rth. Range 6 East, W.M.	described
as follows:	and the second	* 1
Beginning at the northwest corner of	the northwest quarter of	Section 34.
thence South 2000'll" west along the	west line thereof 1823.2	feet; the
south 87°59'49" east, at right angles	, 2444.0 feet to the cent	er of the
casing of said well. Bearings refer System, North Zone, as established by	the King County Aerial S	nlace The strace
and the same of th		
Area served by City of	Issaguan	
(On accompanying plat show to	ation of the existing wells or work	(5)
10. What interest do you have in the above de	scribed property? Owner	
Ta' Mitte titestese no hou tenne ne me goone ne		
		initianistististi tiinittiinittiinittiinittiinittiinittiinittiinittiinittiinittiinittiinittiinittiinittiinitti
	contract buyer, etc.)	
11. Do you have any other water rights appur	tenant to the above described	property? Yes
11-12 AL	(groundwater) Concurren	
for municipa	1-600 apm 9/14/76 11	· ·
12. Construction work will begin on or before.	September 1976	
13. Construction work will be completed on or		•
13. Construction work with be completed on or		
14. Water will be put to complete beneficial u	se on or before November	1976
•		
	City of Issaduah	
	By MM New	unata
The second secon	By: XX (Signature of	
15. Name and address of owner of land on w	By: Signature of	applicant
	By: (Signature of hich well or works are located	applicant
City of Issaquah	By: (Signature of thich well or works are located 130 E. Sunset Way (eppleann : P.O. Box M Issaquah,
	By: (Signature of hich well or works are located 130 E. Sunset Way (applicant
City of Issaquah	By: Now are located 130 E. Sunset Way (P.O. Box M Issaquah,
City of Issaquah	By: 7 Legandar (Signature of 130 B. Sunset Way (By: 7 Legandary of 15 Signature of 15 Signatur	P.O. Box M) Issaquah.
City of Issaquah	By: Now are located 130 E. Sunset Way (P.O. Box M) Issaquah.
City of Issaquah (Name)	By: Now Assert Way (Signature of By: 2) Signature of H. G. HERRINGTON, MA	P.O. Box M Issaquah, dress) Leggl landown (7)
City of Issaquah (Name) Signed in the presence of us as witnesses: Linka Kuchle	By: Now Assert Way (City of Issaguah; P.O.	P.O. Box M Issaquah, dress) Leggl landown (7)
Signed in the presence of us as witnesses: Anda Ruehle, (Name)City Clerk	By: Now Assaulan By: Now Assaulan By: Now Assaulan 130 E. Sunset Way (By: Now Assaulan By: Now Assaulan Gity of Issaulan; P.O. (Addres,	P.O. Box M Issaquah, dress) Leggl landown (r) Box Mr Issaquah, WA Cof witness)
Signed in the presence of us as witnesses: Lily Clerk (Name)City Clerk	hich well or works are located 130 E. Sunset Way (By: 7	P.O. Box M Issaquah, dress) Leggl landown (r) Box Mr Issaquah, WA Cof witness)
Signed in the presence of us as witnesses: Lill Kulle inda Rushle, (Name)City Clork	hich well or works are located 130 E. Sunset Way (By: 7	P.O. Box M Issaquah, dees) Market Ma
Signed in the presence of us as witnesses: Authority Clerk And L. Osterman Name/Admin. Assistant	hich well or works are located 130 E. Sunset Way (By: 7	P.O. Box M Issaquah, dees) Market Ma
Signed in the presence of us as witnesses: Authority Clerk And L. Osterman Name/Admin. Assistant	hich well or works are located 130 E. Sunset Way (By: 7	P.O. Box M Issaquah, dees) Market Ma
City of Issaquah (Name) Signed in the presence of us as witnesses: Link Rubble, (Name)City Clerk Linda Rubble, (Name)Admin. Assistant Orald L. Osterman, Name)Admin. Assistant TATE OF WASHINGTON, COUNTY OF THURSTON.	hich well or works are located 130 E. Sunset Way (By: 2 Signature of Indicators of Issaquah; P.O. (Address of Issaquah; P.O. (P.O. Box M) Issaquah, dress) Legal landown (7) Box Ms. Issaquah, WA (9) of witness) Box Ms. Issaquah, WA (9)
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City of Issaquah (Name) Signed in the presence of us as witnesses: Linda Ruehle, (Name)City Clerk Linda Ruehle, (Name)Admin. Assistant Berald L. Osterman Name)Admin. Assistant STATE OF WASHINGTON, COUNTY OF THURSTON.	By: Signature of 130 E. Sunset Way (By: Signature of 14. G. HERRINGTON, MA City of Issaquah; P.O. (Address City of Issaquah; P.O. (Address foregoing application, together foregoing application, together states of the same of the sa	P.O. Box M) Issaquah brees) legal landown r) YOR Box M; Issaquah, WA of witness) Box M; Issaquah, WA of witness)

Resources, with corrections, on or before

WITNESS my hand this day of

Division of Water Management Department of Water Resources

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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

. SURFACE V	VATER	X GR	OUND WATE	R	2 to 100	. % . 7.4	•. •
· 						•	* 1,5 ** .
APPLICATION NO. G1-22733	Pa	September	FAPPLICATION 1, 1976		:		·
NAME							
CITY OF ISSAQUAH	CITY)		(STATE	2) .		(ZIP C	ODEI
130 East Sunset Way (P.O. Box M)	Issaquah		Wash	ington		980	27
130 Mast demost way			:	٠	-		•
Examination Date: January 20, 1977	7 .						
PHR	C WATERS TO	RE APPROPRI	ATED				
source We11				·			
TRIBUTARY OF (IF SURFACE WATERS)							
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to the state of the state of			<i></i>	· · · ·			<u></u>
LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION 34	TOWNSHIP N.	RANGE, (E. OR	W.J W.M.	W.R.I.A. 8	King	
SE4NW4	RECORDED PL						
LOT BLOCK OF (GIVE NAME OF PLAT OR ADDITION				-			-
LEGAL DESCRI	TION OF PROP	ERTY WATER	TO BE USED	QN			
LEGAL DESCRI	11010 01 11101						

Area served by City of Issaquah

ECY 040-1-25

REPORT OF EXAMINATION

DESCRIPTION OF PROPOSED WORKS

Well drilled 8" diameter, 168* deep. Detailed plans will be supplied prior to final Certificate.

	DEVELOPMENT SCHEDULE	
BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	3 yrs from permit issuance	4 yrs from permit issuance

PROVISIONS AND RECOMMENDATIONS

Evaluation:

This Report of Examination began with a site visit on January 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally a review of the Ground Water Study and pump test results for the wells in question.

The City of Issaquah currently has two (2) certificates of water rights in good standing from the Risdon Wells Numbers 1 and 2 - Certificates Numbers 6343 and 7031 respectively. Your Comprehensive Water Plan also shows a certificate of water right No. 1087 from your water shed. This was relinquished by the City on October 2, 1970. Also, a pending 1970 Surface Water Application from seven springs on the East Water Shed is scheduled to be cancelled once these present applications are approved.

Recognizing that your system requirements are based on peak demands using instantaneous withdrawals and storage as key factors, we will normally approve a realistic request for additional instantaneous withdrawals, assuming no overriding factors occur. Our management of the resource, however, requires that we restrict your total annual permitted use from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 gallons per day/person or 0.224 acre-feet per year/person x 10,000 = 2,240 acre-feet per year (Maximum annual total from all your water rights). Quantities granted on your current two (2) ground water certificate exceeds this by 360 acre-feet per year; primarily due to past over estimation of population growth. This should create no major problem, however, as any annual quantities granted on these current requests would be supplemental to that presently approved.

A graphic look at your past, present and proposed water rights is as follows:

WATER RIGHT CERTIF	TCATES	 	
Source	W.R.C. No.	Inst. Q	Armual Q. Primary Supplemental
Water Shed Risdon Wells	S.W. 1087 -	Relinquished by t	the City October 2, 1970
No. 1	G.W. 6343 G.W. 7031	630 GPM 1200 GPM	1000 AF/YR 1600 AF/YR

PENDING APPLICATION	ONS			
Source	Application No.	Inst. Q.	Anı Primary	nual Q. Sumplemental
East Water Shed 7 springs Well #3 Well #4	21981 G1-22733 G1-22734	2.5 CFS 300 GPM 600 GPM		pending approval Application 119 AF/YR 645 AF/YR

Conclusions

The pump tests substantiate availability of water in quantities requested. No evidence was found to show that this withdrawal, if approved, would have any effect on existing rights nor prove detrimental to the public interest. Therefore, having due regard to the highest feasible development of the use to public waters, I recommend this application should go to permit subject to existing rights and the following conditions.

Special Conditions:

To be included on Permit and final Water Right Certificate -

"Instantaneous withdrawal shall not exceed 300 gallons per minute and the annual withdrawal shall not exceed 119 acre-feet per year" (Quantity approved based on quantity requested).

When approved "This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights." (Annual quantity calculated from estimated 1990 population of 10,000. Puture increase to this annual quantity must be justified by population increase, or other unusual circumstances, and approved by this office.)

To be included on permit -

"All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 NAC (Minimum Standards for Construction and Maintenance of Water Wells).

"The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port."

"A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040." (Installation, operation and maintenance requirements attached hereto.)

"Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute."

Other Comments and Recommendations:

Applicant is advised that notice of proof of appropriation of water (under which final certificate of water right issues) should not be filed until the permanent diversion facilities have been installed together with a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served.

Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the Assistant Secretary, Division of Health prior to any new construction or alterations of a public water supply. The applicant is advised to contact the Washington State Division of Health, Public Health Building No. 4, Thurston Airdustrial Center, Olympia, with regard to the need for compliance.

Upon approval of this application G1-22733 and/or accompanying application G1-22734 we shall initiate final action for cancellation of pending Surface Water Application No. 21981.

Signed at Redmond, Washington,

this 3/ day of

2____

on Con

ROY C. BISHOP Resource Management

Department of Ecology

G1-22733

-3-

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

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

SURFACE	E WATER	X GR	OUND WATER		
APPLICATION NO. G1-22733	P	9-1-76	F APPLICATION		
CITY OF ISSAQUAH ADDRESS ISTREET! P.O. Box M - 130 East Sunset Way	icityi Issaquah		(STATE) Washington		1219 CODE) 98027
1/20/17 Rong	?				
PU	BLIC WATERS TO	BE APPROPR	IATED		
SOURCE Well TRIBUTARY OF HE SURFACE WATERS)				. <u></u>	
MAXIMUM CUBIC FEET PER SECOND MAXIM	UM GALLONS PER M		MAXIMUM ACRE	-FEET PER	YEAR
OUANTITY, TYPE OF USE, PERIOD OF USE mmicipal - continuously					
LOCA	TION OF DIVERS	ION/WITHDR	IAWAL		
APPROXIMATE LOCATION OF DIVERSION/WITHDRAWL 250 feet West and 1150 feet north	of center of	SEC 34			
	1		DANCE IS ORWINMA	W.R.I.A.	COUNTY
LOCATED WITHIN ISMALLEST LEGAL SUBDIVISION) SE 1/4 NW 1/4	SECTION 34	TOWNSHIP N.	RANGE, IE. OR W.I W.M.	8	King
	RECORDED PL	ATTED PROPI	ERTY		
LOT BLOCK OF GIVE NAME OF PLAT OR ADDIT	TION)				
LEGAL DESCR	RIPTION OF PROF	ERTY WATER	TO BE USED ON		

(se soon

ECY 070-16(1)

REPORT OF EXAMINATION

DESCRIPTION OF PROPOSED WORKS well drelled 8" dia 168' deep Dataled plans well be supplied prior to final Corlegicals PROVISIONS AND RECOMMENDATIONS.

EGY 070-16(2)

REPORT OF EXAMINATION

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

PERMIT
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

	L_I SURPAC	E WATER	X GRO			•
			PRIORITY DATE			
RMIT NUMBER	APPLICATION NUMB	,e.,	September	1, 1976	1	
G1-22733P	01-2273					
ME						
CITY OF ISSAQUA	H	(CITY)			ATE)	(ZIP CODE) 98027
130 East Sunset	Way (P.O. Box M) Issaqu		Washi		
The applicant is, pur	suant to the Report of late the following desc s and provisions set ou		which has been vaters of the St	n accepted b ate of Washi	y the applican ngton, subject	t, hereby granted to existing rights
		PUBLIC WATER	TO BE APPROPRI	ATED		
SOURCE		CULIO III-10II				
We11						
RIBUTARY OF LIF SURFACE					777	ur of
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Area served by City of Issaquah

GINNING DATE	COMPLETION DATE	LUTMENT SCHEDOLE	DATE COMPLETE APPLICATION OF WATER TO SE MADE
Started - well drilled	March 15,	1980	March 15, 1981
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			The second second
		PROVISIONS	All services and the services are the services and the services are the services and the services and the services are the services are the services and the services are the se
		FROAISICIAS	1 1/2 W. A. C.
Instantaneous withdrawal withdrawal shall not exc	shall not exc eed 119 acre-f	eed 300 gallons eet per year.	per minute and the annual
Total annual withdrawals	from all sour	ces shall not e	Certificates 6343 and 7031. Acceed the 2600 acre-feet
per year previously appr		**	A STATE OF THE STA
	iance as provid and Chapter 173	ed mider KUW IX	1 meet the minimum standards for .104 (Washington Water Well Con- um Standards for Construction
-hall be meanized anion	to iccume of	final certific	tached Ground Water Bulletin No. 1 ate of water right. The applicant ine and gage in addition to the
A suitable measuring de WAC 508-64-020 through	vice shall be WAC 508-64-040	installed and ma	intained in accordance with
to Comich information	to this office	as part of his	e applicant will be required Proof of Appropriation as to at which water is withdrawn
in garrons per minute.			
			· · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·
			to a full to someth with the above develop
chedule and/or fail to give notic	ubject to cancellate to the Departme	ion should the peri nt of Ecology on fo	ittee fall to comply with the above develop rms provided by that Department docume
ich compliance.			to the same 15th
Given under my hand	l and the seal of th	is office at Olympia	, Washington, this 15th
s March	19 77	:7	
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		JOHN A. BIGGE Department of I	
NGINEERING DATA	-	. (1)	
ж		by	K. McCORMICK, Regional Manager
//		ROBERI	K. McCORMICK, Regional Manager

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

CERTIFICATE OF WATER RIGHT

Surface	Water (Issued in accordance amendments theret	ce with the provisions of Chal o, and the rules and regulation	is of the Department of Ed	ology.)	
X Ground	Water (Issued in accordant emendments theret	e with the provisions of Chap o, and the rules and regulation	oter 263, Laws of Washing as of the Department of Ec	on for 1945, a ology.)	nd
September 1, 1976 G1-22733		R PERMIT NU		CERTIFICATE NUMBER G1-22733C	
IAME		•			
CITY OF ISSAQUAH		ICITY)	(STATE)		(ZIP CODE)
130 Fast Simset Way (P.O. Box M) Issaqua		Issaquah	Washingt		98027
This is to certify that of a right to the use o subject to the provision use of said waters has firmed by the Department.	f the public waters of ns contained in the Per been perfected in acco tent of Ecology and ent	the State of Washingurmit issued by the De rdance with the laws ered of record as show	partment of Ecolog of the State of Was n.	v and that	said right to the
	PUBLIC	WATER TO BE APPROPR	IATED		
SOURCE Well				<u> </u>	
TRIBUTARY OF (IF SURFACE WA	TERS)				•
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QUANTITY, TYPE OF USE, PEHI Mmicipal Supply	or use - continuously		· · · · · · · · · · · · · · · · · · ·		
<u> </u>					
	LOCATI	ON OF DIVERSION/WITH	IDRAWAL		
250 feet west and	of diversion—withdraw 1150 feet north o	f center of Sec.	34.		
				- 1 · ·	
LOCATED WITHIN (SMALLEST SEANVA		SECTION TOWNSHIP 24	6 E.	w. W.A.I.A.	King
		RECORDED PLATTED PR	OPERTY		
LOT	BLOCK		NAME OF PLAT OR ADD		·
	LEGAL DESCRIPTION	OF PROPERTY ON WH	ICH WATER IS TO BE	USED	

Area served by City of Issaquah.

(SEE REVERSE SIDE)

CERTIFICAT

ECY 040-1-2 (Rev. 4-77)

Instantaneous withdrawal shall not exceed 300 gallons per minute and the annual withdrawal shall not exceed 119 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

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.

An approved measuring device shall be installed and maintained in accordance with RCN 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond

Washington, this 31st day

of _______, 19_81________

4

Department of Ecology

engineering data

0x...........

Polint d.

ROBERT K. McCORMICK, Regional Manager

FOR COUNTY USE ONLY

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

DEPARTM	ENT OF ECOLOGY	APPLICATION PERMIT
PROG	GRESS SHEET	CERTIFICATE
CE WATER	X GROUND WATER	
		TELEPHONE NO.

COMPUTER INPUT

	SURFA	ACE WATER	X	GROUND WATE	R	
						TELEPHONE NO.
THE OF ICCIONAL						(ZIP CODE)
TY OF ISSAQUAH		(CITY)		ISTA		98027
O E. Sunset Way (P.0	Box M) Issaquah		wash	TELEPHONE NO.	DATE ASSIGNED
GNED TO						
		(CITY)		(STA	TE)	(ZIP CODE)
ORESS					CERTIFICATION N	JO.
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EXTENDED TO					A11 050007	
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DATE SENT 3-16-77				DATE FILED FILE	פי	
		COMBI	ETION O	F CONSTRUCTION		
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ECY 070-17

PROGRESS

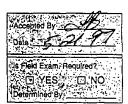
STATE OF WASHINGTON **DEPARTMENT OF ECOLOGY**

r-ceived

APPLICATION FOR CHANGE OF WATER RIGHT

☑ PLACE

☐ PURPOSE ☐ DIVERSION OR WITHDRAWAL ☐ ADDITIONAL POINT OR POINTS



ME UF ECOLOG		======				
ME L. I. UF ECULUG		DENI	ะก		Bus. Tel. <u>39</u>	1-1004
CITY OF ISS	AQUAH	DF1A16	-U	1	Home Tel	
DRESS	-	(CITY)		(STATE)	Other Tel.	- (ZIP CODE)
PO Box 1307	Issa		Was	hington		(ZIP CODE) 98027
PLICATION NUMBER 61-22733		PERMIT NUMBER G1-22733	P	CE	RTIFICATE NUM G1-22733	
CREED RIGHT (TITLE OF CASE)			`			
PROPRIATIONS MADE (GIVE DATE I	E PRIOR TO HINE 7 1017	IE CUIDENCE MATE	B OD IIINE 7 1045 IF	COUND WATE	-D)	
THO PRINTING WALL GIVE DATE	FRIOR 10 JUNE 1, 1917	IF SUMPACE WATE	n, On JOINE 7, 1945 IF 1	SHOUND WATE	-n,	
THE WATER RIGHT RECORDED IN Y	OUR NAME? IF NO. GIV	E NAME RECORDS	D UNDER		<u></u>	
D YES □ NO		RIGHT CONS	ISTS OF		·	
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Municipal Supply				1	inuously	~;
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TER BELOW THE DISTANCES FROM				ION OR WITHD	PAWAL.	
O feet west and 1150 CATED WITHIN (SMALLEST LEGAL)	J Teet north of	center of		RANGE (E	E. OR W.) W.M.	COUNTY
SE 1/4 NW 1/4		34	24	6E		King
	IIN THE LIMITS OF		D PLATTED PRO	PERTY, C	OMPLETE	THIS SECTIO
T BLOCK OF (GIVE NA	ME OF PLAT OR ADDITIO	N)				
	LEGAL DESCRI	PTION OF LA	NDS WATER IS I	JSED ON		
	THILLS OF THE C	ity of Issa	quah		<u>-</u>	
	THILLS OF THE C	ity of Issa	quah			
	TOWNSHIP N.		quah		COUNTY	d
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ECTION RE YOU THE LEGAL OWNER OF THE	TOWNSHIP N.	H SEPARATE SHE	NGE (E. OR W.) W.M.			g
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ECTION RE YOU THE LEGAL OWNER OF THE	TOWNSHIP N. (ÄTTACE ABOVE DESCRIBED LAN	H SEPARATE SHE	INGE (E. OR W.) W.M. EET IF NECESSARY) N YOUR INTEREST		Kin	

A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION CONTINUE ON REVERSE SIDE

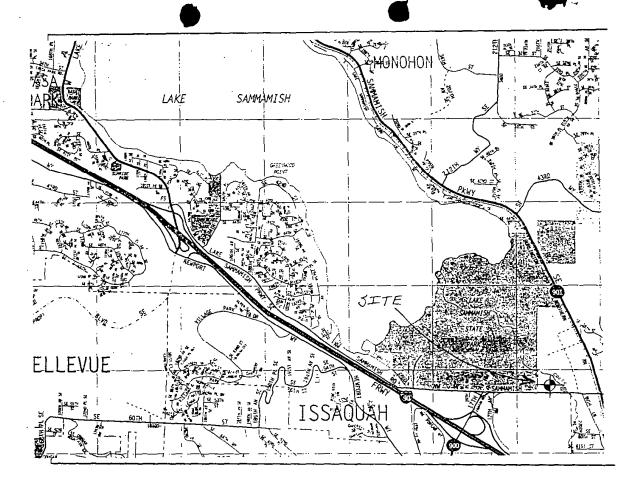
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CHANGE WATER USE TO	TIME OF USE					JBIC FEET PER SECOND
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	LOCATION OF PROP				THDRAWAL	
ON ACCOMPANYING SECTION MAP NORTH-SOUTH AND EAST-WEST D						
ALSO, ENTER BELOW THE DISTAN					AWARDHTIW R	
920 feet west and 1 LOCATED WITHIN (SMALLEST LEG) SE 1/4 NW 1/4	10 north of SE command subdivision)	EARTH 1/ DECEMBER 1/ 21	4 of Sect Township N 24	ion 21 RANGE	(E. OR W.) W.M. E	COUNTY King
	THE LIMITS OF A REC	1 "	FD PROPE	BTY COM	PLETE THIS	SECTION
	NAME OF PLAT OR ADDITION)	ONDEDICAL		<u>, o</u> g	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 02011011
ARE YOU THE OWNER OF THE LAN	ID ON WHICH THE PROPOSED F	OINT OF DIVERSION	OR WITHDRAW	AL IS TO BE L	OCATED	
	LEGAL DESCRIPT	ION OF LAND	WATER IS	USED ON	i	
Within the corporat	e limits of the Ci	ty of Issaqu	ah ·			
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SECTION	TOWNSHIP N.	Lawce	/E 00 W W		Lagura	- <u>-</u>
SECTION	TOWNSHIP N.	HANGE	(E. OR W.) W.M		COUNTY	ıa
	/ATTACH S	EPARATE SHEET	IE NECECCAD	<u></u>	1	
ARE YOU THE LEGAL OWNER OF				1)		
☐ YES ☐ NO						
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	,					
						
* PLEASE NOTE LEGAL LAND OV	VNER SIGNATURE AND APPLIC	CANT SIGNATURE A	RE BOTH REC	UIRED. IF TH	E LEGAL LAND	OWNER AND APPLICANT
ARE THE SAME, PLEASE SIGN	IN BOTH PLACES. THANK YO	J		_		
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			l.	na V	4.	
LEGAL LANDOWN	NER (PLEASE PRINT)			APPLI	CANT'S SIGNATU	RF
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JEGAL LANGOUNGE TO THE						
	TURE (OWNER OF PROPERTY ITEM NUMBER 3)					
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LEGAL LANDOWNER'S ADDRESS

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Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile.
Indicate traveling directions from nearest town in space below.

From Bellevue, Washington; take I-90 eastbound, exit off I-90 at Exit 15; go r to NW Sammamish Road (SE56th St.); go east on NW Sammamish Road approximately	
mile. The site is located on the north side of NW Sammamish Road west of the	retention
ponds.	
Detach here	Fold along scale
0 400 800 1,200 1,600 2,000 2,400 2,800 3,200 3,600 4,000 4,400 4,800 5,	77777



Your water right application will be processed by the Regional Office of the Department of Ecology having jurisdiction in the area in which your water works are located. Please submit your completed application form, maps, sketches, and \$10.00 examination fee to the appropriate Regional Office.

Northwest Regional Office 3190 - 160th Avenue S.E. Bellevue, WA 98008-5452 Tel. (206) 649-7000 TDD (206) 649-4259

Southwest Regional Office PO Box 47775 Olympia, Washington 98504-7775 300 Desmond Drive Lacey, WA 98503 Tel. (360) 407-6300 TDD (360) 407-6306 Central Regional Office 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902-3401 Tel. (509) 575-2490 TDD (509) 454-7673

Eastern Regional Office N. 4601 Monroe, Suite 100 Spokane, Washington 99205-1295 Tel. (509) 456-2926 TDD (509) 458-2055

The appropriate Regional Office will be happy to answer any further questions you may have.

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs please contact the appropriate Regional Office from above.

PECEIVED

APR 3 0 1997 te of Washington DEPARTMENT OF ECOLOGY

	DEPT. OF EU		OF ECOLOGI	•	Date
/	APPLICATION	FOR CHA	NGE OF WATER F	HGHT	VACACIA COMPANIA COMP
RECEIVED	D PURPOSE	_	RSION OR WITHDRA		(6 Field Exam Required? - 第四) YES (国3NO)
60 1007	D PURPOSE		TIONAL POINT OR F		Determined By
APR 29 1997			410.00)	100 may 100 100 100 100 100 100 100 100 100 10
NAME OF ECULOUT		· <u> </u>	FEE PA!D_		Bus. Tel. 391-1004
CITY OF ISSA	HAUO		4/30/	ا ه	Home Tal.
ADDRESS		(CITY)		(STATE)	Other Tol
PO Box 1307	Issaq	luah		ington	(ZIP CODE) 98027
APPLICATION NUMBER	F	G1+227		. 7	ERTIFICATE NUMBER G1-22733C
G1-22733 DECREED RIGHT (TITLE OF CASE)		GIFCE!			
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APPROPRIATIONS MADE (GIVE DATE IF	PRIOR TO JUNE 7, 1917	IF SUHFACE W	ATEH, OH JUNE 7, 1945 IF GI	OUND WA	IEH)
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NO		BIGHT CO	NSISTS OF		
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Well			300 gpm	The co	·
WATER CURRENTLY USED FOR Municipal Supply	•		}	TIME OF U	se tinuously
LOC	ATION OF PRESE	NT POINT	OF DIVERSION OR	VITHOR	AWAL
ENTER BELOW THE DISTANCES FROM				ITIW RO N	IDRAWAL.
250 feet west and 1150 LOCATED WITHIN (SMALLEST LEGAL S	UBDIVISION)		TOWNSHIP N.	RANGE	(E. OR W.) W.M. COUNTY
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	IN THE LIMITS OF ME OF PLAT OR ADDITION		DED PLATTED PRO	PERTY,	COMPLETE THIS SECTION
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SECTION	TOWNSHIP N.		RANGE (E. OR W.) W.M.		COUNTY
	(ATTACE	I SEPARATE	SHEET IF NECESSARY)		King
ARE YOU THE LEGAL OWNER OF THE					
☐ YES ☐ NO					
		 			
REASONS FOR THE PROPOSED CHAN	IGE				· · · · · · · · · · · · · · · · · · ·
Well capacity dropped		nstructi	on and City no I	onger (owns property where
		 		 -	
well was sited.					

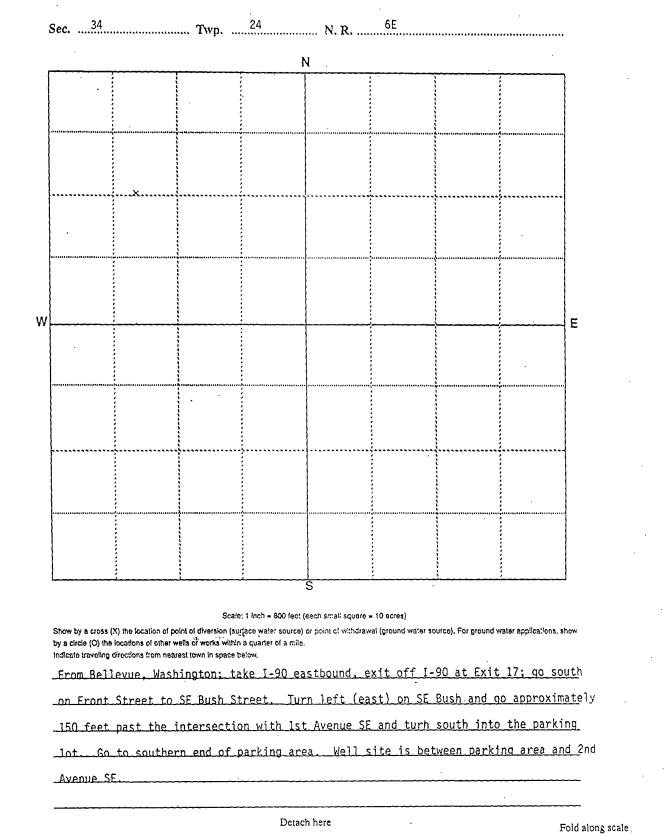
A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION

CONTINUE ON REVERSE SIDE

CHANGE

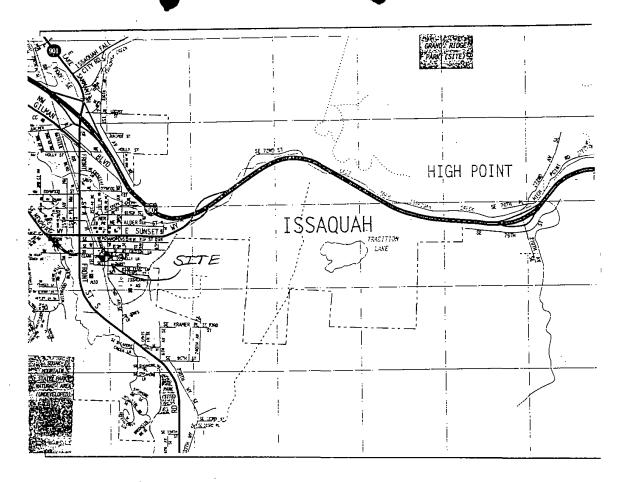
•	CHAN	GE REQUE	STED		
CHANGE WATER USE TO	TIME OF USE			GALLONS PER MINUTE OR C	UBIC FEET PER SECOND
N/A		N/A		N/A	
				ON OR WITHDRAWAL	·
ON ACCOMPANYING SECTION MAPS, ACCURATELY NORTH-SOUTH AND EAST-WEST DISTANCES FROM					
ALSO, ENTER BELOW THE DISTANCES FROM THE 1346 feet north and 1780 feet	et west of the	he Center	of Secti	on 34	
SE 1/4 NW 1/4 NW 1/4)	SECTION 34	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY King
. IF THIS IS WITHIN THE LIMIT		DED PLAT	ED PROPE	RTY, COMPLETE THIS	SECTION
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ARE YOU THE OWNER OF THE LAND ON WHICH THE YES NO	HE PROPOSED POINT	OF DIVERSION	OR WITHDRAW	AL IS TO BE LOCATED	
LEGAL	DESCRIPTION	OF LANDS	WATER IS	USED ON	
Within the corporate limits	of the City	of Issaq	uah		
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<u> </u>					
SECTION TOWNSHIP	P N.	RANGE	(E. OR W.) W.M.		'ng
	(ATTACH SEPAR			Y)	
ARE YOU THE LEGAL OWNER OF THE ABOVE DES	CRIBED LANDS IF N	O, EXPLAIN YO	UR INTEREST		
					
			··		
* PLEASE NOTE LEGAL LAND OWNER SIGNATU	RE AND APPLICANT	SIGNATURE A	RE BOTH REQ	UIRED, IF THE LEGAL LAND	OWNER AND APPLICANT
ARE THE SAME, PLEASE SIGN IN BOTH PLAC	ES. THANK YOU.		.1		
			lo.	200 Jack	
LEGAL LANDOWNER (PLEASE PR	RINT)			APPLICANT'S SIGNATU	RE
	•				
LEGAL LANDOWNER SIGNATURE (OWNER					
DESCRIBED IN ITEM NUMBER	3)				

LEGAL LANDOWNER'S ADDRESS



Detach this scale at the performation, fold excess paper under or cut off excess by cutting along the scale line. This scale corresponds to the SECTION MAP above. You can read feet directly from this scale to outline property and locate points of diversion or withdrawal on the SECTION MAP. Enclose this map along with the application and \$10.00 examination fee.

400 800 1,200 1,600 2,000 2,400 2,800 3,200 3,600 4,000 4,400 4,800 5,200



Your water right application will be processed by the Regional Office of the Department of Ecology having jurisdiction in the area in which your water works are located. Please submit your completed application form, maps, sketches, and \$10.00 examination fee to the appropriate Regional Office.

Northwest Regional Office 3190 - 160th Avenue S.E. Bellevue, WA 98008-5452 Tel. (206) 649-7000 TDD (206) 649-4259

Southwest Regional Office PO Box 47775 Olympia, Washington 98504-7775 300 Desmond Drive Lacey, WA 98503 Tel. (360) 407-6300 TDD (360) 407-6306 Central Regional Office 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902-3401 Tel. (509) 575-2490 TDD (509) 454-7673

Eastern Regional Office N. 4601 Monroe, Suite 100 Spokanc, Washington 99205-1295 Tel. (509) 456-2926 TDD (509) 458-2055

The appropriate Regional Office will be happy to answer any further questions you may have.

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs please contact the appropriate Regional Office from above.



RECEIVED

APR 8 0 1997

DEPT OF ECOLOGY

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May 1, 1997

Mr. Ray Hellwig
Department of Ecology
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, Washington 98008-5452

Subject: Applications For Change of Point of Diversion

and Preliminary Pump Test Permit

Dear Mr. Hellwig:

Enclosed with this letter are four separate applications for changing the point of diversion of two existing water rights to two separate geographic locations. These applications should also be considered as the City's request for a Preliminary Permit to Drill and Test wells at the two geographic locations. Also, a check for twenty dollars (\$20) is enclosed for the processing of two of the four applications. Additionally, the City is requesting a at the following

The City is requesting that the Department of Ecology not publish the notice of application for the applications until test well drilling has been completed to determine which of the two locations is best suited for production well(s). Once a suitable location has been identified, the City will inform Ecology which two of the four applications to publish notifications for.

In February of this year, the City wrote Ecology a letter (February 19, 1997, to Buck Smith) requesting a "Pump Test Permit" in accordance with information given for the correct process. During a meeting with Mr. Smith, Mr. Svoboda, and Mr. Liszak on April 18, the City was informed that an application associated with either a change in water right or for new water right must be submitted to obtain a Preliminary Permit to Drill and Test a Well. Given that Ecology staff unknowingly mis-informed the City about the process, it is hoped that this request for the Preliminary Permit to Drill and Test will be expedited to allow for drilling and testing this summer.

Department of Ecology May 1, 1997

Thank you for your attention to the City's application. Please contact me at 557-2505 if you have further questions or need additional information.

Sincerely,

Public Works Engineering

Sheldon Lynne, PE

City Engineer

cc: Project File (9543)

Day File

Greg Wilder, Public Works Director

Buck Smith. Department of Ecology

Jerry Liszak, Department of Ecology

Patrick Svoboda, Department of Ecology

MEMORANDUM OF UNDERSTANDING

WATER RESOURCES PLANNING

LOWER ISSAQUAH CREEK VALLEY

April, 97

CITY OF ISSAQUAH

Rowan Hinds, Mayor

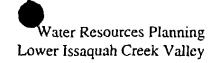
WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE

Bernard Shanks, Ph.D., Director

MUCKLESHOOT INDIAN TRIBE

Virginia Cross, Chairperson

Memorandum Of Understanding April, 97



Section 1: Background

In 1995 the State Department of Fish and Wildlife (WDFW) commissioned the preparation of a Facilities Master Plan for the Issaquah fish hatchery. During the preparation of the Facilities Plan issues surrounding water resources became evident in that there is opportunity to improve production of Coho and Chinook Salmon, improve stream flows, reduce the overall unit cost of producing these species at the Issaquah fish hatchery and improve conditions for egg incubation while maximizing natural spawning upstream of the hatchery. This can be done by providing groundwater to the facility. Another benefit associated with bringing groundwater to the facility is the opportunity to use the facility for egg rearing of rare, weak, or endangered stock from this and other basins.

While bringing groundwater to the facility is excellent, the idea brings with it the complexities of water rights, system reliability, capital and operational costs, and siting a well to produce the groundwater. In February 1973 a report was given to WDFW concerning the viability of siting a deep production well on the hatchery property. The report indicated that the soil stratigraphy below the hatchery site are not capable of producing quantities of water greater than that needed for single family domestic use.

Recognizing the needs of the fisheries resource in the Issaquah Creek Basin, the City of Issaquah offered the use of its production wells in producing groundwater for incubation during non-peak season times. This is in keeping with the City's commitment to the facility as demonstrated by an earlier \$500,000 donation to the State to operate and improve the facility.

Recitations.

Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah have an interest in the continued operation of the Issaquah Fish Hatchery;

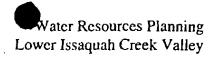
Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah would like to increase production of salmonids while reducing the overall operating costs of the hatchery;

Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah recognize the need to jointly plan for and protect water resources;

Whereas, the State Department of Fish and Wildlife has recently completed a Facilities Master Plan which identifies sediment laden and pathogen containing, egg incubation water as one of the major issues in production levels and operations costs;

Whereas, the provision of groundwater to the hatchery will help ensure annual production levels of at least 2,000,000 Fall Chinook and 1,000,000 Coho Salmon;

Memorandum Of Uncerstanding April, 97



Whereas, the State Department of Fish and Wildlife can exercise its prerogative as a utility customer regarding continued use of the City water system:

Whereas, the City owns and operates groundwater supply, transmission, and distribution facilities with system redundancies built in for reliability;

Whereas, the City has proposed a solution to the State Department of Fish and Wildlife and Muckleshoot Indian Tribe which will reduce costs of operations while maximizing salmonid production and natural spawning in the Issaquah Creek basin, protect and enhance fisheries habitat, and provide water supply as mandated under the State's Growth Management Act;

Whereas, the City of Issaquah has contributed \$500,000 toward operating and improving the Issaquah fish hatchery;

Whereas, there is a degree of certainty that the Lake Washington Chinook and Steelhead will be listed as endangered or threatened under the Endangered Species Act in late 1997, and that a supply of groundwater to the Issaquah Hatchery will aid in the implementation of the recovery plan for these species;

Whereas, the State Department of Fish and Wildlife are developing a recovery plan for Kokanee and that a supply of groundwater to the Issaquah Hatchery will aid in the implementation of this recovery plan;

Whereas, the Muckleshoot Indian Tribe and State Department of Fish and Wildlife recognize the importance of the water resources and that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights the City may apply for under this Memorandum of Understanding;

NOW THEREFORE THE PARTIES AGREE AS FOLLOWS:

<u>Section 1</u>. Those parties signing this Memorandum of Understanding agree to support the planning and development of the water resources in the Lower Issaquah Creek Valley as outlined in further sections.

<u>Section 2</u>. The City of Issaquah is committed to:

- A. Provide untreated groundwater to the Issaquah salmon hatchery at a rate of 600 gpm during the egg incubation period of October 1 through April 30, beginning in 1997, and on a yearly basis thereafter following receipt of transfer of non-consumptive water right from the State for 600 gpm;
- B. The City will provide untreated water to the hatchery from May 1 through September 30, and on a yearly basis thereafter at a rate of 600 gpm following receipt of a new consumptive use water right permit for 600 gpm, successful

change in 865 acre-feet of supplemental annual water rights to primary water rights, successful change in point of diversion of existing primary water rights (800 gpm) from the old Gun Club wells location to a new well, and construction of necessary facilities;

- C. Apply for a change in 865 acre-feet of supplemental annual water rights to Primary water rights;
- D. Apply for a change in point of diversion of existing primary water rights (800 gpm) from the old Gun Club wells location to a new well;
- E. Apply for 600 gpm new consumptive water rights;
- F. Perform hydrogeologic investigations to indicate that the potential impact of the new water rights are mitigated appropriately;
- G. Accept a transfer of non-consumptive water rights from the State Department of Fish and Wildlife to a City production well in the amount of 600 gpm and 968 acre-feet non-consumptive water rights:
- H. Construct the necessary wells and pumping facilities to produce the amount of water applied for in its water right applications and the amount being transferred to it by the State Department of Fish and Wildlife;
- I. Maintain the public water supply and distribution system to the point where connections to it are made.

Section 3. The Washington State Department of Fish and Wildlife is committed to:

- A. Transfer or change the point of diversion of non-consumptive water rights to a City of Issaquah production well in the amount of 600 gpm and 968 acre-feet;
- B. Recognize the importance of the water resources and that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights
- C. Work cooperatively with, and support the City of Issaquah in its efforts to obtain water rights and ensure that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights;
- D. Not appealing the City's applications for water rights to the Washington State Department of Ecology;
- E. Paying for the direct power costs associated with pumping 600 gpm for the period which it is delivered to the hatchery. The direct monthly power costs will be based on the actual unit (dollars per ccf) power costs for December of the preceding year and the amount of water passing through the meter to the hatchery. The unit power cost will remain constant for a period of 12 months, January through December and will be calculated in accordance with the following formula:

•
$$P_U = P_T \div Q_V \div 100$$

Where:

 $P_{tt} = Unit Power Cost$

 P_T = Total power cost for wells during the month of December

 $Q_V = Total$ quantity of water produced in cubic feet

The direct power costs billed will be calculated as follows:

• $P_D = P_U X Q_M$

Where:

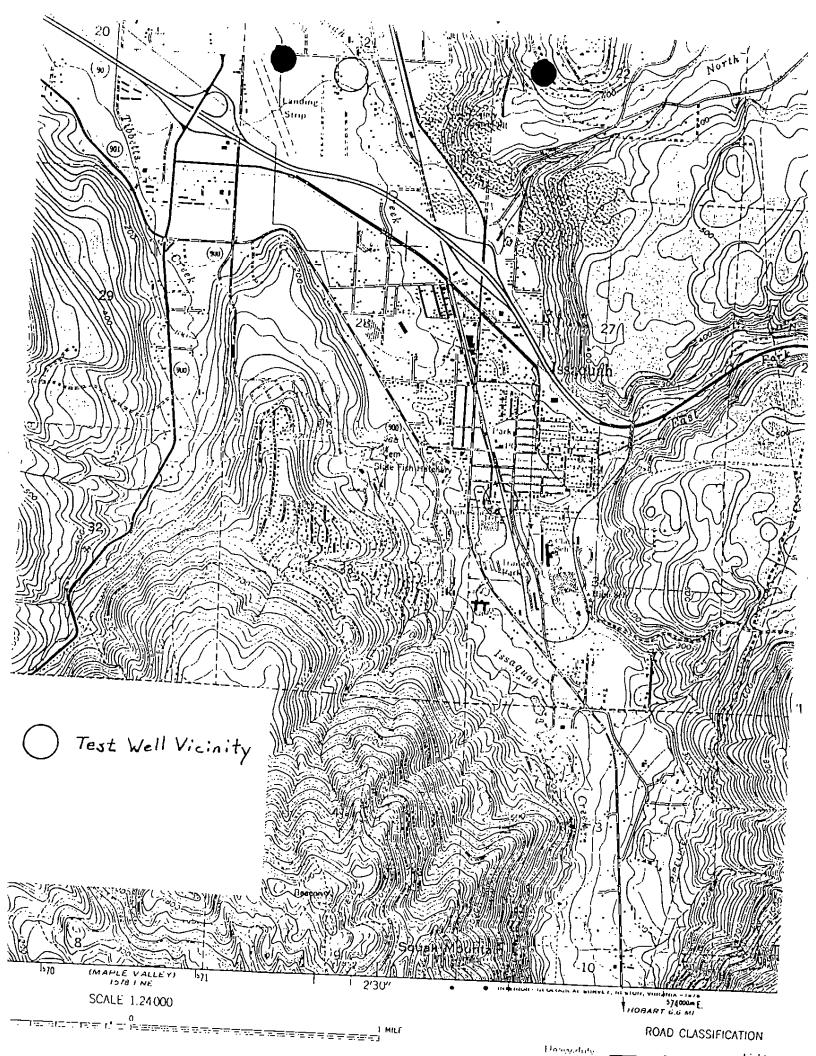
 P_D = Direct power cost

 P_U = Unit power cost as calculated above

 Q_M = Volume (ccf) as determined by reading the water meter

Section 4. The Muckleshoot Indian Tribe is committed to:

- A. Recognize the importance of the water resources and the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights
- B. Work cooperatively with, and support, the City of Issaquah in its efforts to obtain water rights and ensuring that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights;
- C. Not appealing the City's applications for water rights to the Washington State Department of Ecology.



2279363

PROGRESS SHEET - APPLICATION FOR CHANGE

CERTIFICATE NO. G1-22733C

NAME:

City of Issaquah P.O. Box 1307 Issaquah, WA 98027



PURPOSE OF APPLICATION to change	place
Application originally received	1 4/30/97 Fee Paid \$10 4/30/97
Returned for completion or corr	ection
returned	L
PUBLICATION: Ok'd by D, wood 31	DateNotice Sent_6/7/20
Protests	by
	by
	by
Affidavit received and checked_	Time Expires 8/10/03
EXAMINATION: Made $6/5/03$	by P. Work
CERTIFICATE: Ok'd for issue by	date
Statement of fee mailed	Amount \$5
Fee received	
	No



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190-160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

JUN 1 5 2003

CERTIFIED MAIL 7002 3150 0004 8540 3619

City of Issaquah Attn: Sheldon Lynne P.O. Box 1307 Issaquah, WA 98027

Dear Mr. Lynne:

RE: Denial of Ground Water Right Change - Application No. G1-22733C

Enclosed is the Department of Ecology's Report of Examination, No. G1-22733C. This report constitutes our determination and order regarding the above referenced application.

This change application has been denied.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board within thirty (30) days of receipt of this Order. Send the appeal to: Pollution Control Hearings Board, PO Box 40903, Olympia, Washington 988504-0903. At the same time, a copy of the appeal must be sent to: Department of Ecology, Water Resources Appeals Coordinator, P.O. Box 47600, Olympia. Washington 98504-7600. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board within thirty (30) days of the date the Order was mailed in the same manner described above. An appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320.

If you have any questions or concerns on the above information, please call the Department of Ecology at (425) 649-7000.

Sincerely,

Daniel L. Swenson Water Resources Supervisor Northwest Regional Office

DS:dh Enclosure:

I certify that I mailed this Order, or an identical copy thereof, postage prepaid, to the above addressee(s) this ____/3+h___day of ______2003. ________________________________(Signature)

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(Endorsement Re	quired)		
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REPORT OF EXAMINATION FOR CHANGE TO GROUNDWATER RIGHT TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

☐ Sur	face Water			of Chapter 117, Laws of Was galaxiens of the Department of				
☐ Gro	und Water			of Chapter 253 Laws of Was glacions of the Department of				
PRIORITY DATE:				PERMIT NUMBER	-	CLEAD CATE NUMBER		
September 1, 1976	[6]	-22733A		G1-22733P		G1-22733C		
NAME City of Issaguah								
ADDRESS (STREET)		CTY		18	STATE	(Alto	(B) (E)	
P.O. Box 1307		Issaqu	ah	\	Washington	98027		
		PUBLIC	C WATERS	TO BE APPROPE	RIATED			
Request Denied to change F	ount of With	Irowal to City o	of Issamuah	Well #6				
TRIBUTARY OF HESURFACE WATERS)	Onit of While	ara war ev enty v	or issaquaii	77 (11 11 11 11 11 11 11 11 11 11 11 11 11				
MAXIMUM CUBIC FFFT PER SECOND						M ACRETTET PER YEAR		
		N/A N/A			N/A			
QUANTITY TYPE OCUSE PERIODOR O	SE							
N/A								
	•	LOCATION	OF DIVER	SION/WITHDRAY	WAL		·· - ··	
APPROXIMATE LOCATION OF DIVERSI								
700 feet west and 800 feet		NE corner of SE						
TOCATED WITHIN (SMALLES) LEGAL. NEVA SEVA	SUBDIVISION		SECTION 28	10WNSHIP N	PANGE /F OR W (W)	4 W.R.T.V.	King	
11274 31274				1 2 711	1 002		King	
		RECOR	DED PLAT	TED PROPERTY				
101	HI OU'K			OF IGIVE NAME OF PE				
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Water service area of the City of Issaquah as described in its 2002 Water System Plan, the boundaries of which are shown below.

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

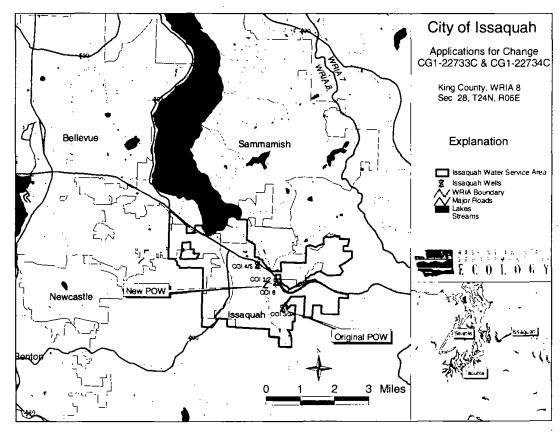


Figure 1: City of Issaquah water system service area and location of wells.

DESCRIPTION OF PROPOSED WORKS

City of Issaquah Well 6 (COI-6), drilled at a 16-inch diameter and tested in July 1995, was completed at a depth of 378 feet. A 20-inch diameter surface seal was installed to a depth of 18 feet. A 10-inch screen is installed from 258 to 363 feet.

DEVELOPMENT SCHEDULE						
COMPLETE PROJECT BY THIS DATE.	WATER IN TROPERTY USE BY THIS DATE					
N/A	N/A					
	COMPLETE PROJECT BY THIS DATE.					

BACKGROUND INFORMATION

The City of Issaquah was granted surface water rights for the East Fork (East Fork) of Issaquah Creek in 1936. This surface water right (SWC 1087) became unusable when Interstate 90 was built over the diversion structure in the early 1970's through the East Fork watershed. The water right that is the subject of this application for change (G1-22733C and companion application G1-22734C) was filed with Ecology in 1976 to serve as a replacement for their compromised East Fork surface water source.

At the time water under G1-22733C and G1-22734C was allocated for wells COI-3A and COI-3 respectively, the City was utilizing groundwater from City of Issaquah Wells 1 and 2 (COI-1and COI-2), located between Gilman Boulevard and Interstate 5, east of Front Street in the city of Issaquah. The water rights for COI-1 and COI-2 were allocated a total Qa of 2600 afy, which Ecology in 1977 believed adequate to accommodate the estimated 10,000 population projected for the year 1997. For this reason the annual quantities under G1-22733C and G1-22734C were made supplemental to those for COI-1 and COI-2.

By the early 1990's City Wells 3A and 3 (COI-3A COI-3), utilizing water under G1-22733C and G1-22734C, were no longer able to produce an adequate supply of water due to construction errors. These wells were abandoned and decommissioned 1993. The City filed for a change in point of withdrawal for G1-22733C and G1-22734C in May 1997. Evidence provided by the City of Issaquah, including photographs of the well house and notes showing pumping records, the existence in the field of remaining infrastructure, as well as drill and decommission logs, and proof of appropriation documentation indicate that the city worked diligently toward perfection prior to filing an application for amending the water right.

Attributes of the Original Certificate

Name on Certificate: City of Issaquah Priority Date: Sept. 1, 1976

Instantaneous Quantity: 300 gallons per minute (gpm)

Annual Quantity: 119 acre-fect per year (afy) *supplemental to GWC 6343 and 7031
Point of Withdrawal: SE4 NW4 of Section 34, Township 24 North, Range 6 East

Purpose of Use: Municipal Supply
Period of Use: Continuously

Place of Use: Area Served by City of Issaquah

Proposed Change

Name of Applicant: City of Issaquah
Date of Application for Change: April 30, 1997

Point of Withdrawal: NE'4 SE'4 of Section 28, Township 24 North, Range 6 East

Notice of Publication: The Issaquah Press – July 10 and July 17, 2002

Protests: None

INVESTIGATION

In considering this application, my investigation included, but was not limited to research and/or review of:

- The State Water Code
- Existing water rights on file for City of Issaquah Water System
- · Records of other water rights in the vicinity
- Notes from a site visit on March 18, 2002
- · Correspondence from Sheldon Lynn, City of Issaquah Public Works Department
- · GIS, topographic and local area maps
- City of Issaquah 2002 Water Comprehensive Plan Draft
- Issaquah Creek Valley Groundwater Management Plan, March 1999
- Reports on wells tests and groundwater exploration (Golder, 2000a), geophysical survey (Golder, 1997), and computer groundwater modeling (Golder, 2000b), all prepared by Golder Associates for the City of Issaquah.
- Technical Memorandum regarding "Technical Water Right Transfer Groundwater Withdrawal Issues From Well COI-6" prepared by Golder Associates hydrogeologist Robert Anderson, P.G. for the City of Issaquah (Golder, 2002).
- Technical Memorandum regarding the "Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed" prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe (Massmann, 2001).

Elements of this report dealing with hydrogeological assessment of the proposed water right change were prepared by the author. Douglas H. Wood, a Washington State licensed hydrogeologist (License #952).

State Water Code

Chapter 90.44 RCW authorizes the appropriation of public groundwater water for beneficial use and describes the process for obtaining groundwater rights including the process to amend or change existing rights. Laws specifically governing the ground water right permitting process are RCW 90.03.250 through 90.03.340 and RCW 90.44.060. Changes or amendments to ground water rights are regulated under RCW 90.44.100 and RCW 90.03.290.





The City of Issaquah holds 6 certificates of water right (Table 1) with an aggregate annual quantity (Qa) allocation of 2,800 acrefect per year (afy). Instantaneous quantity (Qi) allocated under these rights totals 3030 gallons per minute (gpm).

The city serves a population of approximately 11.000 (Year 2000 OFM) and serves some 7.515 ERU's (Equivalent Residential Units). The city's total year 2000 production was approximately 1.850 acre-feet, 8% of which was purchased from the City of Bellevue. Year 2001 production from operating city wells was approximately 1.600 acre-feet, as shown in Table 1. Planned and potential annexations (some of which have already occurred) and growth, based on a conservative annual growth factor 0.5%, as detailed in the City of Issaquah Draft 2002 Water Comprehensive Plan (2002 WCP), would expand the population to over 40,000 by the year 2020 serving nearly 18,000 ERU's. Based on an average daily consumption per ERU of 209 gallons per day (2002 WCP), the year 2020 projected Qa requirements would amount to approximately 4,200 acre-feet.

It is apparent from these growth estimates that the city's current water rights are inadequate. To address the forecasted shortfall in water needs, the City of Issaquah has contracted with the City of Seattle to supply surface water via a pipeline constructed in 2001. It is also apparent that the city's current approximately 60% usage of its allocated Qa of 2800 afy (Table 1) afy will likely rise to serve a portion of increased demand.

Table 1: City of Issaquah Water Rights Summary								
Well #	Certificate #	Priority Date	Qi (gpm)	Qa (afy)	2001 Use (Gal)	2001 Use (afy)		
COI-1	6343-A	03/30/67	630	1,000	78,110,000	240		
COI-2	7031-A	03/11/69	1,200	1,600	221,320,000	680		
COI-3A	G1-22733C	09/01/76	300	119"				
COI-3	G1-22734C	09/01/76	500	645*				
COI-4	G1-24809C	03/10/86	250	200	14,220,000	44		
COI-5	G1-24633C	04/02/85	150	1,600**	207,620,000	637		
Total			3,030	2.800	521,270,000	1,600		

Supplemental to 6343-A and 7031-A (max cumulative = 2600 aty)

Other Water Rights in the Vicinity

A search of the Ecology water rights records indicates that there are 33 water rights, including those held by the City of Issaquah, within an approximate 1 mile radius of the proposed point of withdrawal in this application (Table 2).

Table 2: Issaquah Area Water Rights										
Name .	WR No.	Purpose*	CFS	GPM	AFY	Priority	Sec	Twn	Ang	Otr-Otr Sec
CARLSON B J	SWC-09859	IR,CI	Ţ .	j.	3.6	7/16/1965	27	24	6E	NW/4NW/4
CARLSON BERTIL J	S1-00626C	FS	0.18	-	F-	6/27/1969	27	24	6E	NW/4NW/4
Darigold Inc	G1-21648C	CI		1100	1232	5/16/1974	28	24	6E	NE/4SE/4
Darigold Inc	GWC-00311	CI		500	405	4/6/1949	28	24	6E	NE/4SE/4
EISENTRAGER NORMA	S1-23145C	DS	0.001	-	0.5	6/9/1978	33	24	6E	SW/4SE/4
HILLERY D R	SWC-04972	DS	0.005	-	-	10/9/1951	33	24	6E	NE/4NE/4
HILLERY O A	SWC-04971	DS	0.005	ļ-	-	10/19/1951	33	24	6E	E/2E/2NE/4
KEESTD	SWC-11359	DS	0.01	-	1	2/16/1960	34	24	6E	SE/4SE/4
Lakeside Gravel Co	GWC-00570	DS.CI	1-	650	250	6/13/1950	27	24	6E	NW/4NW/4
Lakeside Gravel Co	GWC-01327	DG,CI		850	316	8/18/1952	27	24	6E	NW/4NW/4
LARSON E	SWC-04970	DS	0.01	1-	-	10/9/1951	27	24	6E	SW/4SE/4
MCCRAY E	SWC-04858	DS	0.005	-	-	5/1/1952	27 .	24	6E	
MILES L	SWC-01643	IR.DS	0.02	1-	E^-	8/20/1937	27	24	6E	SE/4SW/4
Mine Hill Community	SWC-06329	DM	0.2	F .	I	5/27/1954	33	24	6E	SW/4NE/4
NIXFE	SWC-01814	IR,DS	0.01	[-	8/15/1941	27	24	6E	
Pickering Brothers	GWC-02985	DM	[·	20	32	5/24/1956	28	24	6E	SW/4NW/4
SMITH EUGENE	SWC-01780	IR,DS	0.05	-	-	8/25/1939	27	24	6E	
SPWSD	G1-00289C	MÜ	·	3200	936	1/20/1972	28	24	6E	NE/4NE/4
SPWSD	G1-25428P	MU		2300]-	4/24/1989	28	24	6E	NE/4NE/4
SPWSD	G1-26014P	MU		2000	1608	12/24/1990	27	24	6E	SW/4NW/4
Squak Valley Water Club	SWC-07582A	DM	0.09	-	ļ-	10/20/1958	33	24	6E _	SE/4SE/4
STONEBRIDGE E M	SWC-06600	DS	0.005	F-	-	7/15/1952	33	24	6E	NE/4NE/4
STROM WARNER A	SWC-04565	PO.DS	0.1	· _		8/5/1936	33	24	6E	NE/4NE/4
Washington DFW	SWC-01330	FS	10	-	-	1/28/1939	33	24	6E	NE/4SE/4
Washington DFW	SWC-11478	FS	10	-	-	3/29/1968	33	24	6E_	NE/4NE/4
Washington DFW	S1-00735C	FS	16	-	-	11/14/1970	33	24	6E	
WILTSE F G	SWC-07573	DS	0.01	-	-	3/24/1958	33	24	6E	SE/4NE/4

^{*} IR=imgation C!+Commercial, FS=Fire Safety, DS=Single Domestic, DG=General Domestic, DM=Multiple Domestic, MU+Municipal, PO=Power

Nineteen surface water rights are located in the immediate area of the proposed new point of withdrawal. These include 12 single hook-up donestic surface water rights (3 of which include irrigation), 4 for fish propagation (3 of which, totaling 36 cfs are held by Washington Department of Fish and Wildlife for use at the Issaquah Salmon Hatchery), one used for commercial purposes and irrigation, and two for community domestic water systems.

Surface and groundwater rights of significant quantity in the area of the proposed new well (Figure 2) include those used by the Lakeside Gravel Quarry (Qi = 1500 gpm, Qa = 566 afy), the WA Department of Fish and Wildlife (WDFW) Issaquah Salmon Hatchery (Qi = 36 cfs, non-consumptive), Darigold (Qi = 1600 gpm, Qa = 1637 afy), and the municipal water systems that share the Issaquah Valley Aquifer - Sammamish Plateau Water and Sewer District (Qi = 5500 gpm, Qa = 2109 afy) and the City of Issaquah (Qi = 3030 gpm, Qa = 2800 afy). The Sammamish Plateau water rights in the valley also include supplemental and seasonal rights allowing a pumping rate of up to 6,500 gpm during the winter months.

Supplemental to G1-24809C, 6343-A and 7031-A (max cumulative = 2800 afy less amount from Wells 3 and 3A)

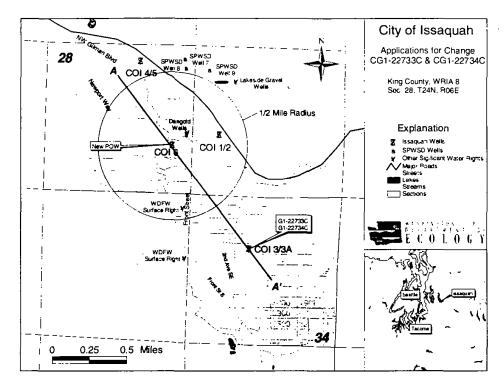


Figure 2: Detail map showing location of proposed changes and surface trace of geological cross-section (Figure 6).

Site Visit

The sites of COI-6 and the original COI-3A/3 location were visited by the author, Douglas Wood, on March 18, 2002. Water system infrastructure and well house foundations were examined at the former site of COI-3A/3. The COI-6 site was examined and it was noted that the well site is located in the city's works yard. The COI-6 wellhead is currently covered and fenced off to secure the site from potential contamination. Mr. Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, informed Ecology during the site visit that the city will soon relocate the city works yard, which will further protect the wellhead area.

Correspondence Received

The City of Issaquah was granted a Preliminary Permit to drill and test two wells to replace wells COI -3, and 3A on May 30, 1997. A letter from Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, dated February 23, 1998, informed Ecology that the results of the City's tests indicated that the new well for both water rights will be the well designated COI-6.

Mr. Steve Bessow of the Washington Department of Fish and Wildlife (WDFW), after reviewing the proposed changes for G1-22733C and G1-22734C, informed Ecology in a letter dated May 29, 2002, that WDFW has no objections or comments to these changes. In a letter dated February 14, 2003, Mr. Bessow, upon reviewing more recent information on the proposed new point of withdrawal, recommended that groundwater withdrawals in hydraulic continuity and Issaquah Creek be considered surface water diversions and thus closed to appropriation. He also requested that any replacement wells be denied if found to be in other than negligible hydraulic continuity the surface waters.

Topographic and Local Area Maps

Geological maps and reports, published through the US Geological Survey and from other sources relevant to this investigation were examined to provide geological and hydrological conditions relevant to the proposed change in point of withdrawal. Maps generated using AreView GIS software were used to examine locations of the proposed new point of withdrawal in relation to other City wells, other water rights, and to Issaquah Creek and other surface water bodies.

City of Issaquah Water System Plans

The City of Issaquah 1996 Water System Plan Update and the Draft 2002 City of Issaquah Water Comprehensive Plan (2002 WSP) provide information on system infrastructure, existing system water rights, growth projections, and water system boundaries.

Issaquah Creek Valley Groundwater Management Plan

The 1999 Issaquah Creek Valley Groundwater Management Plan and supplemental Area Characterization provide hydrogeological background information and insight into water issues within the Issaquah area.

Golder Associates Reports for the City of Issaquah

City of Issaquah supplied their consultant's (Golder Associates) reports on groundwater assessment, geophysical studies of the Issaquah valley, well tests and aquifer modeling. These reports provided a detailed assessment of hydrogeological conditions within the Issaquah Valley Aquifer. The most recent detailed technical document supplied by the applicant is a

report entitled "Groundwater Expansion and Pumping Tests – Lower Issaquah Value dated October 30, 2000. This report (Golder, 2000a) contains pump tests data for the proposed new well (COI-6) and has cross-sections and hydrogeological interpretations based on these tests and geophysical and modeling studies relayed in earlier reports. The November 2000 report on modeling (Golder, 2000b) provides short and long-term modeled estimates of the effects on stream flows resulting from pumping at the proposed new point of withdrawal. Additionally, a technical memorandum presenting a comparison of the hydrogeological characteristics of the proposed new point of withdrawal with those of the original wells included in the application, prepared by Golder Associates hydrogeologist Robert Anderson in October 2002, was supplied the City of Issaquah (Golder, 2002).

Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed

The report, in the form of technical memorandum, was prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe, February, 2001. This report discusses the effects of groundwater withdrawals on stream flows in Issaquah Creek (Massmann, 2001).

FINDINGS

In accordance with Ecology policies and Washington State law, the following considerations were addressed during the process of evaluating this change request:

- Will the change create an enlargement of the original right?
- Has a protest been filed against the proposed change?
- · Will the change cause impairment to other existing rights?
- Is water available at the new point of withdrawal?
- Does the new point of withdrawal tap the same source of water as the original right?
- Is there potential for different impacts on the water source?
- · Will the proposed change be detrimental to public welfare?

Potential for Enlargement

Washington State statutory and case law require that approval of a groundwater change must not result in an enlargement of the right (RCW 90.44.100; Schuh v. Ecology, 100 Wn.2d 180; Merrill v. PCHB, 137 Wn.2d 118). In the Merrill decision the Washington Supreme Court also requires Ecology to evaluate whether the right has been relinquished to the State through non-use or abandonment.

Based on the Washington Supreme Court's 1998 Theodoratus case (135 Wn.2d 582). Ecology reviews applications for changes or amendments to groundwater certificates that were issued pursuant to RCW 90.44.080, where an evaluation was not performed as to the perfected annual quantity put to beneficial use before issuance of the certificate.

The proof of appropriation for G1-22733C was filed on June 9, 1981. The document states that instantaneous quantity was perfected in the amount of 700 gpm. Ecology permit writer Janet Jorg determined at that time that the actual pumping rate was 300 gpm, consistent with the permit, G1-22733P, issued March 15, 1977.

Based on proof of appropriation documentation, copies of notes on water production provided by the City of Issaquah, drilling and decommissioning logs on file with Ecology, and remaining infrastructure seen in field, it is tentatively determined that the right has been beneficially used for municipal supply purposes and is eligible for change.

The water right being investigated (G1-22733C) was certificated for municipal purposes. The right is therefore exempt from relinquishment for non-use under RCW 90.14.141(d).

The common law principal of abandonment is applicable in the case of municipal water rights. Common law abandonment, as discussed by the Supreme Court of Washington 1997 Twisp Case (133 Wn.2d 769), does not however apply to the current application. The City of Issaquah made efforts to replace the wells through the filing of this application in 1997, thus establishing that the city did not intent to abandon the right after decommissioning the well in 1993.

Certificate G1-22733C was issued in the amount of 300 gpm on August 31, 1981, with an annual quantity of 119 afy, supplemental to existing rights under certificates GWC 6343-A and GWC 7031-A.

Table 3: 2001 City of Issaquah Well Production Records*					
	COI- 1	COI-2	COI-4	COI-5	
JAN	2,370,000	13,860,000	190,000	18,010.000	
FEB	0	15,900,000	0	17,170,000	
MAR	0	21,460.000	0	15,060,000	
APR	0	15,246,000	0	18.570,000	
MAY	5,540,000	17,766,000	0	21,000.000	
JUN	11,420,000	22,176,000	0	10,290,000	
JUL	11,660,000	28,917,000	2,240,000	14,740,000	
AUG	10,660,000	24,633,000	3,190,000	21,690,000	
SEP	8,640,000	20,601,000	2.550,000	20,790,000	
OCT	9,880,000	11,907.000	1,630.000	20,290,000	
NOV	8,960,000	13,797,000	2,110,000	14,410,000	
DEC	8.980.000	15,057,000	2,310,000	15,600.000	
Total (gal)	78,110,000	221,320,000	14,220,000	207,620,000	
Total (afy)	239.71	679.21	43.64	637.16	

^{*} Supplied by City of Issaquah

The annual quantity of 119 afy allocated under G1-22733C is supplementary to groundwater certificates 6343-A and 7031-A. therefore perfection of the annual quantity under G1-22733C requires that 119 aty be utilized in any year by the wells sharing

Well production records for the year 2001 for city wells COI-1, COI-2 and COI-5, all of which share the same 2600 afy annual quantity, were supplied by the Public Works Department of the City of Issaquah (Table 3). These show that in 2001 COL-1 and COI-2 produced 918.9 afy and COI-5 produced a further 541.6 afy supplementary to COI-1/2 (the remaining production from COI-5 was supplemental to water rights for COI-4), giving a total use of 1460 afy under the 2600 afy

Quantities available for change for water under G1-22733C are 300 gpm Qi and 119 afy Qa. Annual quantity remains supplementary to the rights under certificates 6343-A and 7031-A, whose annual usage of 1460 afy for the year 2001 is in excess of the 764 afy allocated under groundwater rights for G1-22733C (119 afy) and G122734C (500gpm. 645 afy).

Given the above analysis, it is the finding of this investigation that approval of the requested change will not result in an

Protests

There were no protests filed in response to the proposal to change the point of withdrawal from wells COI-3A/3 to well COI-6. The Muckleshoot Indian Tribe however has expressed concerns that approval would result in a greater total withdrawal from the Issaquah Valley Aquifer and that the connectivity between the aquifer and streams would cause impairment to

Ecology, as expressed in this report, recognizes the relationship between groundwater withdrawals, stream flows and fish habitut. Based on the information reviewed as part of this investigation, it is tentatively found that the City of Issaquah retains the right to the withdrawal of groundwater under certificates G1-22733C and G1-22734C as established under Chapter 90.44 RCW and is entitled under RCW 90.44.100 to propose a change to the point of withdrawal so long as (1) the proposed change will not result in an enlargement as conveyed by the original certificate. (2) the new point of withdrawal taps the same body of groundwater. (3) water is available at the new point of withdrawal, (4) the change does not impair existing water rights, and (5) the proposed change is not detrimental to the public interest.

The findings of this investigation are that the City of Issaquah and its consultants have provided sufficient evidence to show that the proposed new point of withdrawal would tap the same aquifer, is not likely impair existing water rights, and will not constitute an enlargement under the certificate. However Ecology's investigation reveals that the change as proposed is likely to cause a greater impact to stream levels, particularly in the mainstem of Issaquah Creek close to the location of the Issaquah Salmon Hatchery, than withdrawals from the well original location, thus indicating that a potential detriment to the public interest would result if the proposed change were approved.

Impairment of Other Rights

Aquifer tests and computer groundwater modeling conducted by Golder Associates after construction of COI-6 (Golder, 2000a and 2000b) indicate that pumping at the proposed new point of withdrawal will result in a 0 to 1 foot drawdown on groundwater levels in the shallow aquifer zone which is also utilized by the Darigold Dairy wells and City of Issaquah wells

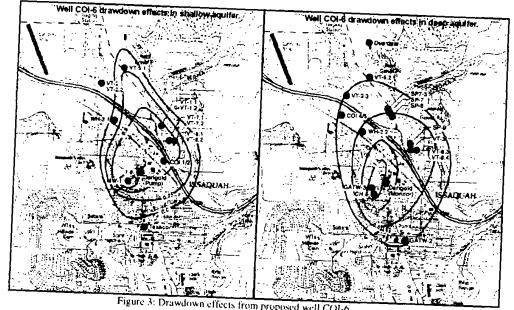


Figure 3: Drawdown effects from proposed well COI-6

The amount of drawdown in wells tapping the deeper portion of the aquifer is greater than within wells utilizing shallow groundwater. The drawdown, from 0 to greater than 1.5 feet, is not however expected to cause interference which would unduly impact existing groundwater water rights within its zone of influence. The same may not be true with respect to surface water bodies in hydraulic continuity with groundwater within the zone of influence (cone of depression).

Surface bodies in hydraulic connection with the Issaguah Valley Aquifer within the zone of influence of the proposed new point of withdrawal will probably be impacted by pumping. The degree of impact was not measurable during testing of Well COI-6, however it is likely to be noticeable through long term continuous pumping as is authorized under the existing t within the drawdown area outlined for the shallow aquifer zone in figure 3. It is not

likely however that the total quant work water produced from the proposed new we wived from surface water bodies would be greater than that which would result from pumping at the original point of withdrawal (Massmann, 2001).

The small amount of drawdown encountered for the deep aquifer zone in the testing of COI-6 is indicative of significant hydraulic continuity between the deeper portions of the Issaquah Valley Aquifer with shallower groundwater and surface water. Minimum instream flows set by regulation under chapter 173-508 WAC represent water rights which must be considered under an impairment evaluation for a change or amendment to a water right. However Issaquah Creek and its tributaries were closed to further appropriation under WAC 173-508-030 and 040 rather than having minimum instream flows set. An evaluation of impairment to the creeks as existing water rights is therefore not appropriate for the application under consideration. It is appropriate however for Ecology to investigate whether any impact the proposed new point of withdrawal might have on stream flows would be contrary to public interest (see section of this report on Public Interest).

Source of Water and Availability

The Issaquah Valley Aquifer system is hosted in alluvial and glacial sand and gravel deposited during and following the most recent ice age which lasted from approximately 35,000 to 10,000 years before present. It is located in the east-central portion of WRIA 8 (Cedar-Sammamish Water Resources Inventory Area), within an area designated herein as the Issaquah - Lake Sammamish sub-basin (Figure 4).

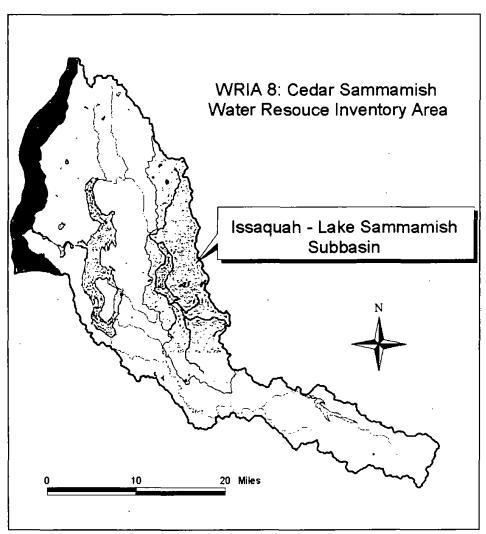


Figure 4: Map showing location of the Issaquah-Sammamish sub-basin of WRIA 8.

Issaquah Creek has three principal tributaries: the mainstem, East Fork, and North Fork (Figure 5). The mainstem drains the south and westernmost slopes of Tiger Mountain and the eastern slopes of Squak Mountain. The East Fork of Issaquah Creek drains the south flank of Grandview Ridge, the northern slopes of Tiger Mountain and the Tradition Lake Plateau. The North Fork of Issaquah Creek drains a portion of the Issaquah Highlands/Grand Ridge area and the western edge of the southernmost portion of the Sammanish Plateau.

Groundwater recharge for the Issaquah Valley Aquifer system is supplied by infiltration of rainfall from the northern slopes of Squak and Tiger Mountains, the lower portions of the Issaquah valley, the Tradition Lake Plateau, and a portion of the Issaquah Highlands/Grand Ridge area. Near the confluence of the mainstem of Issaquah Creek and East Fork, the location of the proposed new point of withdrawal at well COI-6, the bulk of groundwater recharge originates from the northwestern slopes of Tiger Mountain, the eastern slopes of Squak Mountain and the Tradition Lake Plateau (Figure 5).

Longer term storage and recharge of the aquifer is possible from sandstone bedrock which underlies both Squak and Tiger Mountains, but little is known about the quantity of recharge from this source or its ability to store groundwater.

Water Availability

A determination of water availability of a water right is made at the time the original water right application is investigated. The original Report of Examination on the water right, dated January 31, 1977, affirmatively established that water was available and a water right consisting of an instantaneous quantity of 300 gallons per minute with a supplemental annual quantity of 119 afy was issued.

Previously allocated groundwater rights totaling 2600 afy were already held by the City of Issaquah in 1977 and this primary annual amount was deemed sufficient to supply the city's then and projected needs (10,000 population by 1997). With this in mind the City of Issaquah was allocated a supplemental annual quantity under G1-22733C and G1-22734C. The annual quantity for Wells 3A and 3 are both supplemental to the primary quantities allocated under right for Wells 1 and 2 (GWC 6343-A and GWC 7031-A). All four wells utilize the same source, the Issaquah Valley Aquifer.

Subsequent to the issuance of permits for G1-22733 and G1-22734, the City of Issaquah applied for and was allocated additional groundwater rights from the Issaquah Valley Aquifer (G1-24809C and G1-24633C) for COI 4 and 5. In addition the Sammamish Plateau Water and Sewer District (SPWSD) has been issued groundwater rights for three wells located in the Issaquah Valley that utilize the same aquifer.

The groundwater recharge area of the Issaquah Valley Aquifer encompasses the surface area of the Issaquah Creek and Tibbets Creek watersheds (see Figure 5). While surface water from the entire watershed contributes to groundwater in the aquifer through losing stream segments, the groundwater regime in much of the southernmost Issaquah Creek watershed and most of the Tibbets Creek watershed does not contribute directly to groundwater recharge at the COI-6 location.

Most groundwater flow in the portion of the Issaquah Creek watershed situated south of Tiger and Squak mountains flows to the west into the aquifers of the Cedar River (WRIA 8) and Green River (WRIA 9) watersheds. Groundwater from the Tibbets Creek watershed is isolated from the location of COI-6 by a spur of bedrock extending north from Squak Mountain, and much of the groundwater north of the East Fork of Issaquah Creek (Issaquah Highlands/Grand Ridge area) flows northward into the Sammamish Plateau and the Snoqualmie Valley aquifer systems.

The bulk of recharge for the aquifer system at the location of well COI-6 originates as rainfall within the immediate valley area and from the Tradition-Lake-Plateau area (the East Fork watershed draining the northern slopes of Tiger Mountain and southern slope of Grand Ridge). This area encompasses approximately 7.000 acres of the over 45,000 acres within the Issaquah and Tibbets Creeks surface watershed (Figure 5).

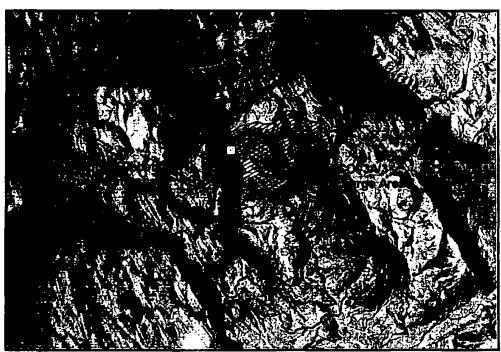


Figure 5: Map showing the Issaquah and Tibbets Creek watersheds and the recharge area for the proposed new well.

Massmann (2001) estimates that Issaquah Valley Aquifer system receives approximately 14,000 to 18,000 afy (recalculated from 20 to 25 cfs) in recharge annually. Groundwater rights have been allocated for approximately 10,000 afy (Table 2) not including rights granted outside of the area within approximately one mile of well COI-6. Massmann (2001) also cites an estimate by - Ecology that actual use from wells in the area is less than half of the current allocation or approximately 3,600 afy (5 cfs).

In the present application the proposed new point of withdrawal is further down-gradient within the same aquifer as the original point of withdrawal and recharge occurs from a larger catchment area, and thus would thus be more capable of supplying the same quantity of water.

Well test data supplied by the City (Golder, 2000a) suggest only minimal drawdown to the water table in the area of the new well (0 to 1 feet; see Figure 3). Tests were conducted during late summer when stream flows are most critical to fish habitat. Pump tests and stream gaging, done in conjunction with aquifer testing, indicate that surface water bodies are perched in late summer in this area and therefore not in close hydraulic continuity with the water table at the immediate area of the well during this part of the season. During the remainder of the year the water table associated with the Shallow Aquifer Zone is in closer hydraulic continuity with streams and creek levels would be affected.

Based on the results of computer of ling of the proposed new point of withdrawal (e.g., 2000b), long term pumping would result in 85% of well withdrawals being derived from shallow groundwater sources in close hydraulic continuity with Issaquah Creek (~500) gpm of 600 gpm modeled pumping after 300 days, when steady state is achieved). The model shows that if pumping is discontinued after 115 days less than 50% of pumping volume would be derived from shallow sources (~270 gpm of 600 gpm).

While the total impact, in terms of both drawdown and stream capture, would be spread along the creek and over a wide area of the shallow aquifer zone, the strongest effects of pumping would occur in the immediate area of the proposed well within the cone of depression of the shallow aquifer zone as shown in Figure 3.

The model effects are reported as being conservative (Golder, 2000b), and therefore are likely overstated. Since the model was based on a pumping rate of 600 gpm, the estimates are not accurate for the proposed changes for G1-22733C and G1-22734C totaling 800 gpm, but still give a reasonable estimate of the magnitude of stream impact.

Source of Water

Both the original and the new point of withdrawal utilize groundwater from within the Issaquah Valley Aquifer system (see Figure 6). Therefore the proposed change conforms to requirements of RCW 90.44.100 that replacement wells must tap the same body of groundwater.

At both locations wells tap the deep, sand and gravel hosted, semi-confined, aquifer zone that is separated from the shallow water table aquifer zone (also hosted in sand and gravel) by a lower permeability silt, fine sand and clay layer of lacustrine origin. Lenses of silt and clay and in places glacial till, locally form low permeability layers that do not significantly restrict vertical mobility of water within the upper portion of the aquifer.

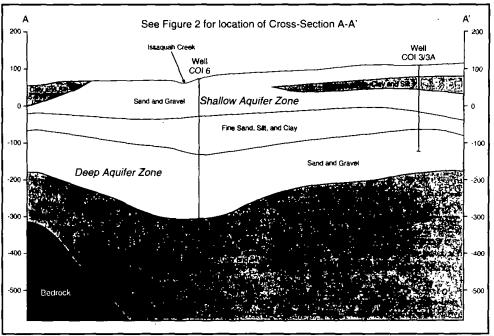


Figure 6: Cross-section between wells COI 3A/3 and the proposed new well COI 6 (after Golder and Associates, 2000).

Potential for Different Impacts on the Water Source

The City of Issaquah is currently utilizing (based on data supplied by the City of 2001 well production) 1600 afy out of their total allocation under existing certificates of 2800 afy. Approval of the applications for change for groundwater certificates G1-22733C and G1-22734C will result in the City being capable of producing 764 afy toward that amount. Note however that, under changes the legislature passed in 1997 to RCW 90.44.100, the city has the authority, independent of these applications, to drill a replacement well or wells at the original location of wells COI-3A/3, giving the City of Issaquah the freedom to use the entire 764 afy from rights under certificates G1-22733C and G1-22734C without filing applications for change.

The City's consultants (Golder, 2002) suggest that withdrawals from the proposed new point of withdrawal will result in less overall impact to the environment due to: (1) the greater thickness of the leaky aquitard at the new location (thus resulting in less impact to shallow groundwater and surface water bodies in the immediate area of the well), (2) a greater, more diversified recharge area for waters withdrawn at the proposed new well, and (3) because groundwater from the new well would not likely interact with surface water flows above Lake Sammamish.

While these claims appear on their face to be reasonable based on what is known about the aquifer and on the dynamics of pumping, it relies on an assumption that there will not be a direct impact on stream flows as a result of pumping. Pumping tests (Golder 2000a) however suggest that there will be an impact on the shallow aquifer zone within zone of influence (cone of depression) of the new well and hence on stream flows within the zone that would not occur with pumping at the original point of withdrawal. During pumping at the proposed new well, stream flow within the zone of influence that would have otherwise stayed within the stream and/or shallow aquifer zone, would instead be drawn down into the deeper aquifer zone and contribute to pumped volumes.

Public Interest

The East Fork, North Fork and mainstem of Issaquah Creek are closed by rule under WAC 173-508-030 and 173-508-040 to preserve stream flows required to support salmon habitat. The streams have been administratively closed since 1950 when the

Washington State Department of Fisheries requested that all remaining stream flows were required to support salmon spawning and rearing habitat. In 1971 the USGS performed field surveys of Issaquah Creek that indicated that flows between May and November were inadequate for support of fish populations, confirming that Issaquah Creek and all its tributaries should be closed.

Approval of the requested change in point of withdrawal will not after the quantity allocated under certificate G1-22733C, thus there would be no net gain in the quantities available under the right from the source aquifer. There is information however that indicates the proposed change in the point of withdrawal would result in greater local contribution from closed streams to pumped quantities.

It is generally agreed among hydrogeologists that groundwater in alluvial aquifers is closely associated with surface water hodies occupying the same valley. The understanding of hydraulic continuity supports the concept that groundwater withdrawals from an alluvial aquifer divert all or a portion of the pumped volume from streams and other surface water hodies occupying surface areas of the alluvial valley.

The current application seeks to replace a point of withdrawal located on the periphery of the alluvial aquifer at a distance of approximately 2000 feet from each of two closed streams (East Fork and mainstem of Issaquah Creek) with a new point of withdrawal located approximately 2000 feet from the streams. The effect of withdrawals from each location must be analyzed with respect to their effects on both streams in order to determine whether approval of the change will result in a net increase to the amount of water that the new well will derive from creek flow.

The degree to which pumping from a well can effect stream flows is largely dependent on the distance of the well from the stream, the depth from which water is withdrawn and on the ability of the aquifer and intervening aquitard media to allow the transmission of water (hydraulic conductivity).

Unconfined aquifers, i.e. aquifers not separated from the surface by a low permeability aquitard, are generally found to be in closer hydraulic continuity with streams. Withdrawals that derive water from unconfined aquifers, particularly when they are in close proximity to streams, have a more pronounced effect on stream flows than withdrawals from confined aquifers.

In the Issaquah Valley Aquifer an aquitard of varying thickness and hydraulic conductivity occurs such that the degree of hydraulic connection between the point of withdrawal and surface streams is largely dependent on the position within the valley of the well. An aquitard overlying a confined aquifer that allows significant hydraulic connection with a shallower aquifer is considered to be "leaky". Aquifer tests at Well COI-6, where shallow aquifer water levels were lowered by up to 1 foot, are consistent with the existence of a leaky aquitard separating the aquifer at well intake level from the shallow aquifer near the surface.

Robert Anderson, in his technical analysis of the original and proposed new points of withdrawal (Golder, 2002), states that moving the point of withdrawal to Well COI-6 will result in less impact to the environment based on his analysis of well completion depth, recharge area, distance of each point of withdrawal from Issaquah Creek, and the thickness of the aquitard at the two well locations. Anderson's analysis however assumes that the city would only use Well COI-6 for summer peaking requirements. The applicant has not however requested a reduction in the period of use for this water right and therefore Ecology must evaluate effects on stream flows consistent with the well operating continuously as currently authorized under the certificate. In addition Anderson does not take into account the direct effect that pumping will have on surface water bodies with the well's zone of influence.

Anderson (Golder, 2002) estimates that at the original point of withdrawal (Wells COI-3A/3), the contribution to well production from the shallow, unconfined aquifer would be greater than 90% after only 10 days of pumping. He also states that groundwater computer model analysis (Golder, 2000b) indicates that after 100 days of pumping at COI-6, the contribution from leakage would be less than 50% of pumping volume. The model also indicates that if the well is pumped continuously the contribution through leakage would reach 85% of pumping volume. At either location, the contribution from leakage would include water from the shallow aquifer and a component from stream flows, whose magnitude would largely be dependent on the distance to the surface water body and the direction and velocity of flow in the aquifer.

The difference in leakage between the two locations can be explained by the relative thicknesses of low permeability material present at both locations. At Well COI-6 a sandy silt aquitard overlying the completion zone is some 140 feet thick, while at COI-3A/3 the low permeability material overlying the completion zone is only a few feet thick. It is not certain whether the silt layer present at both locations is continuous. The leakage suggests that it is not. Well 3A/3 also has a 20 foot thick glacial till layer near the surface. This till layer however is discontinuous in the valley and does not form an effective aquitard.

Well COI-3A/3 is nearly 10 times the distance from either the East Fork or mainstem of Issaquah Creek than is Well COI-6. The effect of withdrawals from a well in hydraulic connection to a stream drops off rapidly with distance of the well from the stream. It is likely therefore that the contribution of stream flows to pumping volume would be greater at the proposed new point of withdrawal than from Wells COI-3A/3 due to the difference in distance from the streams. The presence of the thicker aquitard at COI-6 would likely attenuate the effect in the short term, but would, on a long term basis, result in a greater impact on the shallow aquifer and ultimately on stream flows in the immediate area of the well.

Anderson points out that the recharge area of the original point of withdrawal is limited largely to Tradition Lake Plateau and that the recharge area for Well COI-6 includes a much larger area, with contributions from the upper Issaquah Creek valley, the East Fork/Issaquah Highlands area in addition to the Tradition Lake Plateau. While the greater diversity in recharge sources suggests that withdrawals at Well COI-6 would cause less overall stress on the aquifer, they do not lessen the potential to cause a greater impact on stream flows in the zone of influence of the proposed new point of withdrawal, where pumping stress on the shallow aquifer and streams would be greatest.

A change in point of withdrawal, as proposed, would result in a negative impact to the flow of water in a salmon spawning and rearing stream. The negative impact to a stream closed by rule, with no water available is detrimental to the interest of the people of Washington.

DISCUSSION

The proposed changes in point of withdrawal for G1-22733C and G1-22734C do not conform to all the requirements for approval of an application for change or amendment to a groundwater right under applicable statutes RCW 90.44.100 and RCW 90.03.290.



This investigation finds that approach the proposed change threatens to prove detring to the public interest, due to the impact that pumping at the proposed point of withdrawal would have on stream flows, and hence on salmon habitat in the East Fork of Issaguah Creek and the mainstem of Issaguah Creek, both of which are critical salmon habitat streams and closed to appropriation under Chapter 173-508 WAC. Ecology's concerns are supported by the Department of Fish and Wildlife whose objection to this application is based on the degree of hydraulic continuity of the proposed new point of withdrawal.

Under Ecology authority in the consideration of changes or amendments to groundwater rights, if approval threatens to prove detrimental to the public interest. Ecology has a duty to reject the application. It is also noted in this investigation that a denial of this application does not prevent the applicant from exercising the right by drilling a replacement well at the original published well location.

RECOMMENDATIONS

I recommend the proposed changes to groundwater certificate G1-22733C be denied and the application for change be rejected pursuant to the requirements of RCW 90.44,100 and RCW 90.03,290.

CONCLUSIONS

In accordance with chapter 90.44 RCW, and based on the findings of this report, I conclude that the proposed new point of withdrawal for groundwater certificate G1-22733C cannot be authorized.

> Sed Geo DOUGLAS H. WOOD

Douglas H. Wood, MS, LHG

Licensed Hydrogeologist (WA #952)

Gun Club Well 3

Certificate G1-22734C

STATE OF WASHINGTON

DEPARTMENT OF WATER RESOURCES

Division of Water Management

PANNOTS TAGTS
PRIORITY
Date 9/1/76
Time 1600 4/3176
Accepted TBH

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters of the state of washington

592-7237

	WEIA = 8
Application No. G. W. 22734	
pplication No. G. W.L.	
CITY OF ISSAQUAH, WASHINGTON	
	of applicant)
: 130 E. Sunset Way (P.O. Box M) I	ssaquah, WA 98027
• • • • • • • • • • • • • • • • • • • •	the control of the co
	opriate the following described public ground wa
	ghts. This application is made under the provision
Chap. 263 of the Session Laws of 1945, and amend	ments thereto of the State of Washington and sub
to the rules and regulations of the Department	of Water Resources.
	and the second of the second o
1. The proposed appropriation will be from	(Well, tunnel, infiltration trench)
•	
ocated within the city limits of Issaqu	ah, Washington
(Give approximate dis	stance and direction from nearest city or town)
Area	Sub-area
(Leave blank)	(Leave blank)
Zone (Leave blank)	
	• • • • • • • • • • • • • • • • • • • •
Applicant's name or number of well or other wo	ks, if any 14
2. The quantity of water which applicant in	tends to withdraw for beneficial use is 600
	· · · · · · · · · · · · · · · · · · ·
gallons per minute; 645 acre fe	et per year.
	.v. a municinal
3. The use or uses to which water is to be app	nreanrea
(Domestic supply, irrigation, mun	deipal, manufacturing, industrial use, etc.)
en de la companya de Anno de la companya d	and a second control of the second control o
4. The time during which water will be requ	ired each year arr year
	King
5. Location of well or other works for with	drawal of water: In county of 34-
From N.W. Corner of the N.W.	Quarter of Section 34, 724N,
(a) Range-6F, W.M., S 53° 31' 3' (Give distance and	bearing from nearest corner of section or legal subdivision)
SE 4	and the second s
being within the NW %	of Sec. 34 , Twp. 24 N., Rge. 6
(Give smallest legal subdivision) · · · · · · · · · · · · · · · · · · ·
or (b) If within limits of recorded platted p	roperty, town or city: Lot, Block
Of (D) 1] western similar of recorded planted p	10 0
~£	in the second of
Of	A CALL TO A CALL THE CALL THE PARTY OF THE P

(c) Show this location on accompanying section plat. Other adequate maps or drawings will

6. Description of Works				
(a) Well will be and dri	11ed and have a d	iameter of 8	inches and a	estimated
oth of 190 feet.	or drilled)			
(b) Tunnels or trenche	s to be described: (Atto	ach additional sheets if	needed for full d	escription.)
(c) Distribution system	n to be described:			
in the second of	e 1990 este en en T			: <u></u> -=
water from sale main, which in system.	d well shall be pump turn enters the exi	ed through a 12" tr sting city water di	ansmission stribution	
(d) If pumps are to be	e used, give size and ty	pe:		
	has not been design testing as to its ca		lesign is	egi dari Gili en fler
(e) Give capacity and	type of motor or engin	ne to be used:		
to part		and the same series of the		
	4.0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
ream or stream channel, gifference in elevation betwe	rive the distance to t	er works is less than or he nearest point on ea I the ground surface a	ch of such chant	iels and th
roum or stream channel of	rive the distance to t	ne nearest point on ea I the ground surface a	ch of such chant	iels and ti
roum or stream channel of	jive the distance to the the stream bed and	ne nearest point on ea I the ground surface a	ch of such chant	iels and ti
ream or stream channel, gifference in elevation between two stream of the control	give the distance to the stream bed and the stream bed and the stream bed and the stream bed at the stream bed at the stream well at the stream well at the stream bed at the	he nearest point on ea I the ground surface a	ch of such cham t the source of d	els and ti evelopmen
ream or stream channel, gifference in elevation between two difference in elevation between two difference in elevation between two differences in elevation area and two differences in the elevation of the elevation area and the elevation differences in the elevation of the elevation differences in the elevation of the elevation differences in the elevation differences in the elevation difference in elevation between two differences in elevation betwe	rive the distance to the the stream bed and the stream bed and the existing well or ot ter mile and the dista	he nearest point on ea I the ground surface a her works from which nce and direction from	ch of such cham t the source of d	els and ti evelopmen s withdrav works bei
ream or stream channel, gifference in elevation between two stream of the control	give the distance to the the stream bed and the stream bed and the chistan the distance and the distance the chistance the chist	he nearest point on ea I the ground surface a	ch of such chan t the source of d ground water is n well or other	els and ti evelopmen
ream or stream channel, gifference in elevation between two difference in elevation between two difference in elevation between two difference in elevation a radius of one-quarted her control her co	give the distance to the the stream bed and the stream bed and the chistan the distance to the distance the d	he nearest point on ea I the ground surface a her works from which nce and direction from South	ch of such chant t the source of d ground water is n well or other	els and ti evelopmen s withdrav works bei
ream or stream channel, gifference in elevation between the control of the contro	rive the distance to the the stream bed and the stream bed and the check the	he nearest point on ea I the ground surface a her works from which nce and direction from South	ch of such chant t the source of d ground water is n well or other	els and the velopments withdraw works being 200 feet
(g) Ownership of eavithin a radius of one-quarteported her City of Issagu (Name)	rive the distance to the the stream bed and the stream bed and the existing well or ot ter mile and the distantal	he nearest point on ea I the ground surface a her works from which nce and direction from South (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopment of withdraw works being the expectation of the
(g) Ownership of eavithin a radius of one-quarteported her (Supply THE FOLLOWI	ch existing well or ot ter mile and the dista	her works from which nce and direction from (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopment works being the being t
(g) Ownership of earthin a radius of one-quarteported her City of Issaqu (Name) Supply the Follows 7. For Municipal Supply	rive the distance to then the stream bed and the stream bed and the existing well or other mile and the distantant the distant the distant of the control of	her works from which nce and direction from (Direction) (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	evelopmen withdrau works bein 200 feet Distance)
(g) Ownership of ear within a radius of one-quarteported her (Name) (Supply the Follows 7. For Municipal Supply county of King	ch existing well or ot ter mile and the dista	her works from which nce and direction from (Direction) (Direction) (Direction) (Direction) (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopmen s withdrau works bein 200 feet Distance) Distance)
(g) Ownership of earthin a radius of one-quarteported her City of Issaqu (Name) Supply the Follows 7. For Municipal Supply	ch existing well or ot ter mile and the dista	her works from which nce and direction from (Direction) (Direction) (Direction) (Direction) (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopmen s withdrau works bein 200 feet Distance) Distance)
(g) Ownership of ear within a radius of one-quarteported her (Name) (Supply the Follows 7. For Municipal Supply county of King	ch existing well or ot ter mile and the dista with the stream bed and the dista with the dista with the city of the city, to the city,	her works from which nce and direction from South (Direction) (Direction) (Direction) (Direction) (Direction) (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopment works being works being between Distance)
(g) Ownership of eavithin a radius of one-quarteported her (Name) Supply the Follows 7. For Municipal Supply county of King	ch existing well or ot ter mile and the dista with the stream bed and the dista with the dista with the city of the city, to the city,	her works from which nce and direction from South (Direction) (Direction) (Direction) (Direction) (Direction) (Direction) (Direction)	ch of such chant t the source of d ground water is n well or other	els and the evelopmen swithdrau works bein 200 feet Distance) Distance)

 9.* Legal Description of Property on which water supply: 	r is to be used for all purposes other than municipal
	iption from deed) ed, attach separate sheet)
Well #4 is recated in a portion of the quarter of Section 34, Township 24 Novi as follows:	southeast quarter of the northwest th, Range 6 East, W.M., described
Beginning at the northwest corner of the thence south 2°00'11" west along the we south 87°59'49" east, at right angles a casing of said well. Bearings refer to System, North-Zone, as established by	est line thereof 1647.3 feet; thence 2399.4 feet to the center of the o the Washington State Coordinate
Area served by Bity o	f Issaguah
(On accompanying plat show locat	don of the existing wells or works)
10. What interest do you have in the above desc	ribed property?
(Quant Josse of	ontract buyer, etc.)
	mant to the above described property?Xes
 12. Construction work will begin on or before 13. Construction work will be completed on or before 14. Water will be put to complete beneficial use 	on or before November 1976 City of Issaguah By: (Signature of appleant)
15. Name and address of owner of land on which	130 E. Sunset (P.O. Box M)
City of Issaquah (Name)	By: 7 Jenne of Lead Landowner) H. G. HERRINGTON, MARCON
Signed in the presence of us as witnesses:	
Linda Ruehle, (Name) City Clerk	City of Issaquah; P.O. Box M; Issaquah, WA 98027 (Address of witness)
Vereld L DIte	City of Issaquah; P.O.Box M: Issaquah, WA 9802?
Jerald L. Osterman, Name, Admin. Assistant	(Address of witness)
STATE OF WASHINGTON, COUNTY OF THURSTON.	
	regoing application, together with the accompanying
maps and data, and return the same for correction	on or completion as follows:
E-Appendiance of the control of the	

In order to retain its priority, this application must be returned to the Department of Water

Resources, with corrections, on or before....

WITNESS my hand this.

Division of Water Management. Department of Water Resources.

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION TO APPROPRIATE FUBLIC WATERS OF THE STATE OF WASHINGTON

	SURFACE WATER	X GROUN	D WATER	
	ation no. 1-22734	PRIORITY DATE OF APP September 1,	1976	
CITY OF ISSAQUAH				(ZIP CODE)
	. Box M) Issaqual	ì	(STATE) Washington	1 98027
Examination Date: Januar	y 20,1977		·	·
	PUBLIC WATERS	TO BE APPROPRIATE	D	
OURCE Well				
TRIBUTARY OF (IF SURFACE WATERS)				
MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PO	ER MINUTE	MAXIMUM ACRE- 645	i,0
QUANTITY, TYPE OF USE, PERIOD OF USE				*** * * * * * * * * * * * * * * * * *
Municipal supply - conti	nuously			
				
	LOCATION OF DIV	ERSION/WITHDRAWA	L	
APPROXIMATE LOCATION OF DIVERSION/W 1280 feet south and 320				
1280 feet south and 520	Teet west Hear I	<u> </u>		
LOCATED WITHIN (SMALLEST LEGAL SUBD	IVISION) SECTION	TOWNSHIP N. RAN	6 E.	W.R.A.A. COUNTY 8 King
SE4NV4		PLATTED PROPERTY		
LOT BLOCK OF IGIVE NAME OF	PLAT OR ADDITION)			
	EGAL DESCRIPTION OF	DECEMBER TO	RE USED ON	

Area served by City of Issaquah

DESCRIPTION OF PROPOSED WORKS

Drilled 8" diameter, 190' deep. Detailed plans will be supplied prior to final Certificate.

	DEVELOPMENT SCHEDULE	
Started - well drilled		date complete application of water to se made 4 yrs from permit issuance

PROVISIONS AND RECOMMENDATIONS

Evaluation:

This Report of Examination began with a site visit on January 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally a review of the Ground Water Study and pump test results for the wells in question.

The City of Issaquah currently has two (2) certificates of water rights in good standing from the Risdon Wells Numbers 1 and 2 - Certificates Numbers 6343 and 7031 respectively. Your Comprehensive Water Plan also shows a certificate of water right No. 1087 from your water shed. This was relinquished by the City on October 2, 1970. Also, a pending 1970 Surface Water Application from seven springs on the East Water Shed is scheduled to be cancelled once these present applications are approved.

Recognizing that your system requirements are based on peak demands using instantaneous withdrawals and storage as key factors, we will normally approve a realistic request for additional instantaneous withdrawals, assuming no overriding factors occur. Our management of the resource, however, requires that we restrict your total annual permitted use from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 gallons per day/person or 0.224 acre-feet per year/person x 10,000 = 2,240 acre-feet per year (Maximum annual total from all your water rights). Quantities granted on your current two (2) ground water certificate exceeds this by 360 acre-feet per year; primarily due to past over estimation of population growth. This should create no major problem, however, as any annual quantities granted on these current requests would be supplemental to that presently approved.

A graphic look at your past, present and proposed water rights is as follows:

WATER RIGHT CERTIF	ICATES	 	
Source	W.R.C. No.	Inst. Q	Annual Q. Primary Supplemental
Water Shed Risdon Wells	S.W. 1087 -	Relinquished by the	he City October 2, 1970
No. 1 No. 2	G.W. 6343 G.W. 7031	630 GPM 1200 GPM	1000 AF/YR 1600 AF/YR

PENDING APPLICATIO	NS		
Source	Application No.	Inst. Q.	Annual Q. Primary Supplemental
East Water Shed 7 springs Well #3 Well #4	21981 G1-22733 G1-22734	2.5 CFS 300 GPM 600 GPM	To be canceled pending approval of Ground Water Application 119 AF/YR 645 AF/YR

Conclusions

The pump tests substantiate availability of water in quantities requested. No evidence was found to show that this withdrawal, if approved, would have any effect on existing rights nor prove detrimental to the public interest. Therefore, having due regard to the highest feasible development of the use to public waters, I recommend this application should go to permit subject to existing rights and the following conditions.

Special Conditions:

To be included on Permit and final Water Right Certificate -

"Instantaneous withdrawal shall not exceed 600 gallons per minute and the annual withdrawal shall not exceed 645 acre-feet per year" (Quantity approved based on quantity requested).

When approved "This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights." (Annual quantity calculated from estimated 1990 population of 10,000. Future increase to this annual quantity must be justified by population increase, or other unusual circumstances, and approved by this office.)

To be included on permit -

"All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

"The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port."

"A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040." (Installation, operation and maintenance requirements attached hereto.)

"Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute."

Other Comments and Recommendations:

Applicant is advised that notice of proof of appropriation of water (under which final certificate of water right issues) should not be filed until the permanent diversion facilities have been installed together with a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served.

Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the Assistant Secretary, Division of Health prior to any new construction or alterations of a public water supply. The applicant is advised to contact the Washington State Division of Health, Public Health Building No. 4, Thurston Airdustrial Center, Olympia, with regard to the need for compliance.

Upon approval of this application G1-22734 and/or accompanying application G1-22733 we shall initiate final action for cancellation of pending Surface Water Application No. 21981.

Signed at Redmond, Washington,

this 3/ day of

ROY C. BISHOP Resource Management

Department of Ecology

G1-22734

-3-





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

	SURFACE	WATER	GROU	JND WATER	
	APPLICATION NO. G1-22734		PRIORITY DATE OF A	APPLICATION	
CITY OF ISSAUQAN	Dosaguah				
130 East Sunset Way	P.	O. Box M	Issaquah,	(STATE) Washington	98027
1/201-	77 Ra	~			
	PUI	LIC WATERS TO	BE APPROPRIA	red °	
well					
TRIBUTARY OF HE SURFACE WATER	13)				
MAXIMUM CUBIC FEET PER SECON	D MAXIM	UM GALLONS PER I	MINUTE 0	MAXIMUM ACRE-FEET PE	R YEAR
	LOCA	TION OF DIVER	SION/WITHDRAY	YAL	
1280 feet south an	d 320 feet west	from north	1/4 corner	of SEC 34	· · · · · · · · · · · · · · · · · · ·
LOCATED WITHIN ISMALLEST LE	GAL SUBDIVISION)	SECTION 34	TOWNSHIP N. RA	NGE. (E. OR W.) W.M. W.R.L.A	. COUNTY K in g
40			LATTED PROPER	TY .	
LOT BLOCK OF IGIVE	NAME OF PLAT OR ADDI	FIONI		•	
	LEGAL DESCR	IPTION OF PRO	PERTY WATER TO	D BE USED ON	
Japan Japan					•

267551. 3/

ECY 070-16(1)

REPORT OF EXAMINATION

Orded 8"dia 190' deep Defailed plans will be supplied prior to final Certificate

farled- well drelleb Evaluation This Report of Examination began with a site visit on Jan 20, 1977, followed by a review o your current water rights, a review of your Comprehensive Water Plan and finally a of the Grand Water Study and pumptert regults The City of Tszagesk currently has two certificates of water rights in good standing from the Risdom Wells No = 142 - Certificate Ho = 6343 + 7031 respectively Your Comprehensive Water Pran also shows certificate of water right No. 1087 from your water Shed. This was relinquished by the City on Cot 2, 1970. Also, a pending 1970 Surface water application from seven springs on the East Water Shed is schedured to be caralled once these present applications are approved. Recognizing that your system requirements are based on peak demands using and storage as key factors, we will normally a realistic request for additional inste Our Monagement of the resource however requires that we restrict your total annual use from all sources to a quantity compatable with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily

200 GPD/person of 0.224 AF/VR/personx 10,000=

Evaluation This Report of Examination began with a site visit on Jam 20, 1927, followed by a review your current water rights, a review of your Comprehense water Plan and finally a review of the Ground Water Study and pump test results on the well a in question The City of Issagraf currently las two certificates Quater rights in good standing from the Rido Wells No = 142 - Certificate Ho = 6343 + 7031 respective Your Comprehensive Cester Plan also shows certificate of water right No. 1087 from your water Shed. This was relinquished by the City on Oct 2, 1970. Also, a pending 1970 Surface water application from seven springer on the East Water Shed is schedusled to be canaled once these present applications are approved Kecognizing that your system requirements on peaks demands using, and storage as key factors, we will normally ap a realistic request for additional instantions willdrands, assuming no overriding factors occurs Our Monagement of the resource however, req that we restrict your total annual with from all sources to a quantity compatable with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 GPD/person or 0.224 AFNR/personx 10,000= 2240 AFIYE. (Maximum annual total from all your wider rights) Your Current two(2) ground water conlificate exceeds this by 360 style primarily due to past over est, mation of population growth.

This should create no major problem, however, as any

PERMIT

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

	SURFACE W	IATER	X G	ROUND WA	TER		
PERMIT NUMBER	APPLICATION NUMBER	F	September	- 1 10°	76		
G1-22734P	G1-22734		Septembe	1, 19	70		
NAME							
CITY OF ISSAQUAH							
ADDRESS (STREET) 130 East Sunset Way	(P.O. Box M)	(city) Issaquah		W	(\$TATE) ash in gto	n	(ZIP CODE) 98027
The applicant is, pursuant a permit to appropriate the and to the limitations and	ie following describe	ed public wa	hich has be ters of the S	en accepte State of W	ed by the ashington,	applica , subjec	nt, hereby granted t to existing rights
	PUB	IC WATER TO	BE APPROP	RIATED			
SOURCE Well							
TRIBUTARY OF HE SURFACE WATERS	ì						
					XIMUM ACRE	**************************************	WEAD
MAXIMUM CUBIC FEET PER SECOND		GALLONS PER M		l MA		5.0	TEAH
QUANTITY, TYPE OF USE, PERIOD O	FUSE						
Municipal supply -	continuously						
							
							:
	100	TION OF DIV	ÆRSION/WIT	HDRAWAL	 		
APPROXIMATE LOCATION OF DIVE	LAWARDHTIWANDIS		·········				
1280 feet south an	d 320 feet west	from nort	1 % Corner	of Sec	. 34		
LOCATED WITHIN (SMALLEST LEGA	L SUBDIVISION)	SECTION		RANGE, (E.		W.R.I.A.	COUNTY
SELINIA		34	24		Е.		King
To any Ica and	NAME OF PLAT OR ADDIT	ECORDED PLA	ATTED PROPE	THE Y			
LOT BLOCK OF IGIVE	MANIE OF FOAT OR ADDITE	,					
	LEGAL DESCRIP	TION OF PRO	PERTY WATER	TO BE US	ED ON		

Area served by City of Issaquah

PERMIT

	DEVELOPMENT SCI PLETION DATE Farch 15, 1980	DATE COMPLETE APPLICATION OF WATER TO BE MADE March 15, 1981
Started - well drilled N	arch 15, 1980	March 15, 1981
	PROVISIO	DNS
· · · · · · · · · · · · · · · · · · ·		
Instantaneous withdrawal shall not exceed		llons per minute and the annual ar.
This is a supplemental right Total annual withdrawals from per year previously approved	n all sources shall	ater Certificates 6343 and 7031. not exceed the 2600 acre-feet
construction and maintenance	as provided under R hapter 173-160 WAC (e shall meet the minimum standards for CW 18.104 (Washington Water Well Con- Minimum Standards for Construction
shall be required prior to i	ssuance of final cer	in attached Ground Water Bulletin No. 1 tificate of water right. The applicant a airline and gage in addition to the
A suitable measuring device WAC 508-64-020 through WAC 5	shall be installed a 08-64-040.	and maintained in accordance with
to furnish information to the the size and type of equipment	is office as part of	ht, the applicant will be required f his Proof of Appropriation as to e rate at which water is withdrawn
in gallons per minute.		
•		
This permit shall be subject schedule and/or fail to give notice to the such compliance.	to cancellation should the Department of Ecology	ne permittee fail to comply with the above developments on forms provided by that Department documents
Given under my hand and t	he seal of this office at O	lympia, Washington, this15th
of, March, 19		· · · · · · · · · · · · · · · · · · ·
of, 19		
***		nices n
	IOHN A. Densetme	BIGGS, Director ent of Ecology
-	Debarine	District Control of the Control of t
ENGINEERING DATA		Car Com Commende
ок	by	
y a	RC	BERT K. McCORMICK, Regional Manager

CERTIFICATE OF WATER RIGHT

			of the Department of Ed		•	
X Ground Water (Issued in emendment	eccordance with the pro- te thereto, and the rules	isions of Chapte and regulations	r 263, Laws of Washingt of the Department of Ec	on for 1945 ology.)	5, and	-
September 1, 1976 APPLICATION G1-2		PERMIT NUME G1-22			TE NUMBER -22734C	¥.
						
ane CITY OF ISSAQUAH					····	
DDRESS (STREET) 130 East Sunset Way (P.O. Box			(STATE) Washingt		(ZIP CODE) 98027	
This is to certify that the herein named of a right to the use of the public wat ubject to the provisions contained in use of said waters has been perfected in irmed by the Department of Ecology a	ers of the State of the Permit issued n accordance with	Washington by the Depa the laws of	as herein defined, ertment of Ecology the State of Was	, and und v. and th	ter ana specific at said right to	auy the
	PUBLIC WATER TO					
OURCE Well					•	
RIBUTARY OF (IF SURPACE WATERS)						
AXIMUM CUBIC FEET PER SECOND	AXIMUM GALLONS PER	MINISTE	MAXIMUM AC	RE-FEET PER	YEAR	
XXIMUM CUBIC FEEL PER SECONO	500.			645.0		
uantity, type of use, period of use Municipal supply - continuous 1	у					
	OCATION OF DIVE	S10n/WITHD	RAWAL			
1280 feet south and 320 feet w	est from north	1/4 corner	of Sec. 34.			
			 			
OCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION 34	TOWNSHIP N.	RANGE, (E. OR W.) W.N	W.R.I.A. 8	COUNTY King	
SEANV4		LATTED PROP				
DT BLC-CK		OF (GIVE NA	ME OF PLAT OR ADD			
	PTION OF PROPER					

Area served by City of Issaquah.

(SEE REVERSE SIDE)

CERTIFICATE

Instantaneous withdrawal shall not exceed 600 gallons per minute and the annual withdrawal shall not exceed 645 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

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.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in ECW

Given under my hand and the seal of this office at Redmond Washington, this 31st. day

Of August 19 81

Department of Ecology

ENGINEERING DATA

OK AND ROBERT K. McCORMICK, Regional Manager

FOR COUNTY USE ONLY

				SHINGTON OF ECOLOGY		\	co	MPUTER I	ATION	
		P	ROGRES	S SHEET			F	CERTIF	ICATE	
	SURF	ACE WATER		ROUND	WATE	R	L	OTHER		
NAME								TELEPHO	NE NO.	
CITY OF ISSAQUAH										
ADDRESS		(CITY)			(STAT			(ž 980	P CODE)	
130 E. Sunset Way (P. ASSIGNED TO	0. Box M.) Issaqu	an	Was	shing	TELEPHONE N	5.	DATE AS		
ADDRESS		(CITY)			STAT	E)		(Z	IP CODE)	
APPLICATION NO.	34	PERMIT NO.	G12	2734p		CERTIFICATIO	NNO.	734	e	
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ECY 070-17

APPLICATION FOR CHANGE OF WATER RIGHT DIVERSION OR WITHDRAWAL ☐ PURPOSE ADDITIONAL POINT OR POINTS ☑ PLACE NAME TEE PAID 391-1004 Bus. Tel. CITY OF ISSAQUAH Home Tel 4(30(9-Other Tel. ADDRESS (CITY) Issaquah (ZIP CODE) 98027 (STATE)' Washington PO Box 1307 APPLICATION NUMBER G1-22734 PERMIT NUMBER G1-22734P CERTIFICATE NUMBER G1-22734C DECREED RIGHT (TITLE OF CASE) APPROPRIATIONS MADE (GIVE DATE IF PRIOR TO JUNE 7, 1917 IF SURFACE WATER, OR JUNE 7, 1945 IF GROUND WATER) IS THE WATER RIGHT RECORDED IN YOUR NAME? | IF NO, GIVE NAME RECORDED UNDER Ø YES □ NO RIGHT CONSISTS OF WATERS USED FROM (STREAM, LAKE, WELL, OR TRENCH, ETC.) GALLONS PER MINUTE OR CUBIC FEET PER SECOND 500 gpm Time of use Well WATER CURRENTLY USED FOR Continuousl LOCATION OF PRESENT POINT OF DIVERSION OR WITHDRAWAL ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL 1280 feet south and 320 feet west from north 1/4 corner of Section 34 LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY 34 SE 1/4.NW 1/4 6E IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION LOT OF (GIVE NAME OF PLAT OR ADDITION) LEGAL DESCRIPTION OF LANDS WATER IS USED ON Within the corporate limits of the City of Issaquah SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY Kina (ATTACH SEPARATE SHEET IF NECESSARY) ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS | IF NO. EXPLAIN YOUR INTEREST ☐ YES □ NO REASONS FOR THE PROPOSED CHANGE

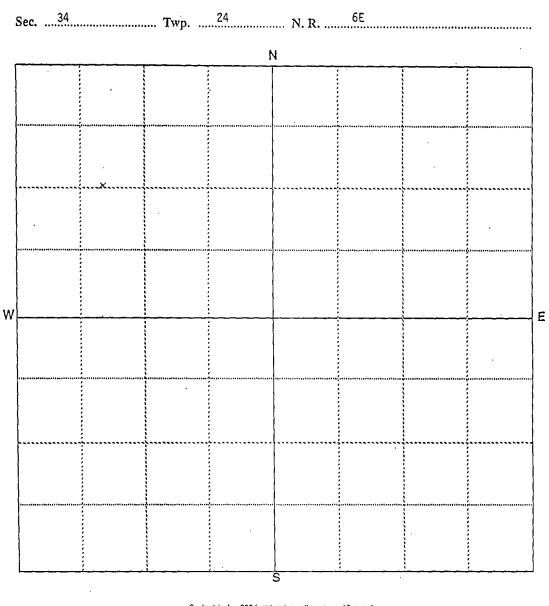
A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION

<u>Well capacity dropped due to poor well construction and City no longer owns property where</u>

CHANGE

well-was sited.

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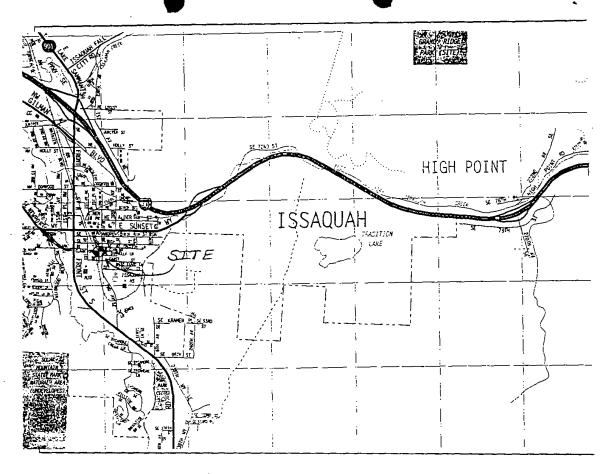


Scale: 1 Inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile. Indicate traveling directions from negrest town in space below.

From Bellevue, Washington: take I-90 eastbound, exit off I-90 at Exit 17; go south
on Front Street to SE Bush Street. Turn left (east) on SE Bush and go approximately
150 feet past the intersection with 1st Avenue SE and turn south into the parking
lot. Go to southern end of parking area. Well site is between parking area and 2nd
Avenue SE.

Detach here Fold along scale.



Your water right application will be processed by the Regional Office of the Department of Ecology having jurisdiction in the area in which your water works are located. Please submit your completed application form, maps, sketches, and \$10.00 examination fee to the appropriate Regional Office.

Northwest Regional Office 3190 - 160th Avenue S.E. Bellevue, WA 98008-5452 Tel. (206) 649-7000 TDD (206) 649-4259

Southwest Regional Office PO Box 47775 Olympia, Washington 98504-7775 300 Desmond Drive Lacey, WA 98503 Tel. (360) 407-6300 TDD (360) 407-6306 Central Regional Office 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902-3401 Tel. (509) 575-2490 TDD (509) 454-7673

Eastern Regional Office N. 4601 Monroe, Suite 100 Spokane, Washington 99205-1295 Tel. (509) 456-2926 TDD (509) 458-2055

The appropriate Regional Office will be happy to answer any further questions you may have.

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs please contact the appropriate Regional Office from above.



Northwest Regional Office • 3190-160th Avenue SF • Bellevue, Washington 98008-5452 • (425) 649-7000

JUN 13 2003

CERTIFIED MAIL 7002 3150 0004 8540 3640

City of Issaquah Attn: Sheldon Lynne P.O. Box 1307 Issaquah, WA 98027

Dear Mr. Lynne:

RE: Denial of Ground Water Right Change - Application No. G1-22734C

Enclosed is the Department of Ecology's Report of Examination, No. G1-22734C. This report constitutes our determination and order regarding the above referenced application.

This change application has been denied.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board within thirty (30) days of receipt of this Order. Send the appeal to: Pollution Control Hearings Board, PO Box 40903. Olympia, Washington 988504-0903. At the same time, a copy of the appeal must be sent to: Department of Ecology, Water Resources Appeals Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board within thirty (30) days of the date the Order was mailed in the same manner described above. An appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320.

If you have any questions or concerns on the above information, please call the Department of Ecology at (425) 649-7000.

Sincerely,

Daniel L. Swenson

Water Resources Supervisor Northwest Regional Office

DS:dh Enclosure:

r manifight is

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Street, Apr. No. 19 or PO Box No. 19	OF ISSAQUAH SHELDON LYNNE OX 1307 UAH WA 98027		
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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Characteristers 1, 2, and 3. Also complete it if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: 	A. Signature S. Agent Addressee B. Received by (Printed Name) C. Date of Delivery S.H. I. E.Y. R. J. F. M. B.E.R. D. is delivery address different from item 1? If YES, enter delivery address below:
CHY OF ISSAQUAH ATTN SHELDON LYNNE P O BOX 1307 ISSAQUAH WA 98027	3. Service Type TcCertffled Mail
	4. Restricted Delivery? (Extra Fee) Yes
2. Article Number	
PS ()SOTT, August 2001 ?= - 150 17 Pomestic	Hétaff NBCsipt 102595-02-M-1039



REPORT OF EXAMINATION FOR CHANGE TO GROUNDWATER RIGHT TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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	HCT dissued in accordance with the provis- amenatments thereto, and the rules and	ions of Chapter 253, Laws of Wash d regulations of the Department or	ington for 1945, and Cology (
RIORLLY DATI.	APPLICATION NUMBER	PERMIT NUMBER		CL POZZATO		
September 1, 1976	G1-22734A	-227.34A G1-227.34P		G1-22734C		
NAME Lity of Issaguah						
City of Issaquah	((IFY)	15	TATE)	(Nh) C	म ग- र	
P.O. Box 1307	Issaquah	V	ashington	9802	.7	
MAXIMUM CUBIC IFFT IFFR SI COND	MAXIMUM GALLON N/A	S PER MINUTE	MAXIMUM ACRE II	FET PUR YEAR		
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PROXIMATE LOCATION OF DIVERSION—WITH 700 feet west and 800 feet south o	f the NE corner of SE ¼ of Se	ection 28				
LOCATED WITHIN (SMALLEST LEGAL SUBDIVIS)		TOWNSHIP N.	RANGLIE ORWIWM.	W R L.A	COUNTY	
NE¼ SE¼		24N	06E	8	King	
		ATTED PROPERTY				
OF B	(Y.K	OF:GIVE NAME OF PL:	AT OR ADDITION:			

Water service area of the City of Issaquah as described in its 2002 Water System Plan, the boundaries of which are shown below.

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

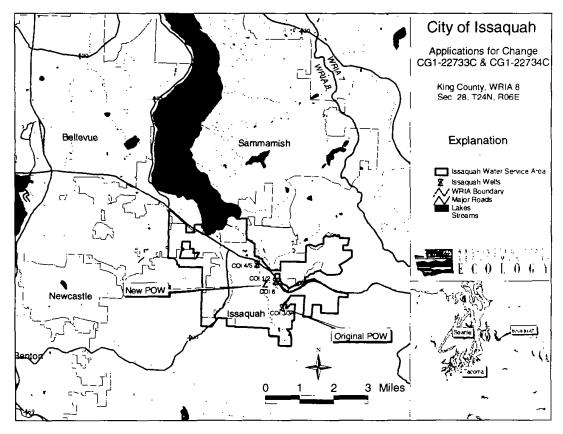


Figure 1: City of Issaquah water system service area and location of wells.

DESCRIPTION OF PROPOSED WORKS

City of Issaquah Well 6 (COI-6), drilled at a 16-inch diameter and tested in July 1998, was completed at a depth of 378 feet. A 20-inch diameter surface seal was installed to a depth of 18 feet. A 10-inch screen is installed from 258 to 363 feet.

DEVELOPMENT SCHEDULE					
BLODS PRODUCT BY THIS DATE:	COMPLETE SKOTE OF THIS DATE	WATER POLITOTETA USE BY THIS DATE			
Begun	N/A	N/A			

BACKGROUND INFORMATION

The City of Issaquah was granted surface water rights for the East Fork (East Fork) of Issaquah Creek in 1936. This surface water right (SWC 1087) became unusable when Interstate 90 was built over the diversion structure in the early 1970's through the East Fork watershed. The water right that is the subject of this application for change (G1-22734C and companion application G1-22733C) was filed with Ecology in 1976 to serve as a replacement for their compromised East Fork surface water source.

At the time water under G1-22733C and G1-22734C was allocated for wells COI-3A and COI-3 respectively, the City was utilizing groundwater from City of Issaquah Wells 1 and 2 (COI-1and COI-2), located between Gilman Boulevard and Interstate 5, east of Front Street in the city of Issaquah. The water rights for COI-1 and COI-2 were allocated a total Qa of 2600 afy, which Ecology in 1977 believed adequate to accommodate the estimated 10,000 population projected for the year 1997. For this reason the annual quantities under G1-22733C and G1-22734C were made supplemental to those for COI-1 and COI-2.

By the early 1990's City Wells 3A and 3 (COI-3A COI-3), utilizing water under GI-22733C and GI-22734C, were no longer able to produce an adequate supply of water due to construction errors. These wells were abandoned and decommissioned 1993. The City filed for a change in point of withdrawal for GI-22733C and GI-22734C in May 1997. Evidence provided by the City of Issaquah, including photographs of the well house and notes showing pumping records, the existence in the field of remaining infrastructure, as well as drill and decommission logs, and proof of appropriation documentation indicate that the city worked diligently toward perfection prior to filing an application for amending the water right.

Attributes of the Original Certificate

Name on Certificate: City of Issaquah Priority Date: Sept. 1, 1976

Instantaneous Quantity: 500 gallons per minute (gpm)

Annual Quantity: 645 acre-feet per year (afy) *supplemental to GWC 6343 and 7031
Point of Withdrawal: SE¼ NW¼ of Section 34, Township 24 North, Range 6 East

Purpose of Use: Municipal Supply Period of Use: Continuously

Place of Use: Area Served by City of Issaquah

Proposed Change

Name of Applicant: City of Issaquah Date of Application for Change: April 30, 1997

Point of Withdrawal: NE¼ SE¼ of Section 28, Township 24 North, Runge 6 East

Notice of Publication: The Issaquah Press – July 10 and July 17, 2002

Protests: Nor

INVESTIGATION

In considering this application, my investigation included, but was not limited to research and/or review of:

- The State Water Code
- Existing water rights on file for City of Issaquah Water System
- Records of other water rights in the vicinity
- Notes from a site visit on March 18, 2002
- · Correspondence from Sheldon Lynn, City of Issaguah Public Works Department
- · GIS, topographic and local area maps
- City of Issaquah 2002 Water Comprehensive Plan Draft
- Issaquah Creek Valley Groundwater Management Plan, March 1999
- Reports on wells tests and groundwater exploration (Golder, 2000a), geophysical survey (Golder, 1997), and computer groundwater modeling (Golder, 2000b), all prepared by Golder Associates for the City of Issaquah.
- Technical Memorandum regarding "Technical Water Right Transfer Groundwater Withdrawal Issues From Well COI-6" prepared by Golder Associates hydrogeologist Robert Anderson, P.G. for the City of Issaquah (Golder, 2002).
- Technical Memorandum regarding the "Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed" prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe (Massmann, 2001).

Elements of this report dealing with hydrogeological assessment of the proposed water right change were prepared by the author. Douglas H. Wood, a Washington State licensed hydrogeologist (License #952).

State Water Code

Chapter 90.44 RCW authorizes the appropriation of public groundwater water for beneficial use and describes the process for obtaining groundwater rights including the process to amend or change existing rights. Laws specifically governing the groundwater right permitting process are RCW 90.03.250 through 90.03.340 and RCW 90.44.060. Changes or amendments to groundwater rights are regulated under RCW 90.44.100 and RCW 90.03.290.





The City of Issaquah holds 6 certificates of water right (Table 1) with an aggregate annual quantity (Qa) allocation of 2.800 acrefect per year (afy). Instantaneous quantity (Qi) allocated under these rights totals 3030 gallons per minute (gpm).

The city serves a population of approximately 11.000 (Year 2000 OFM) and serves some 7.515 ERU's (Equivalent Residential Units). The city's total year 2000 production was approximately 1.850 acre-feet, 8% of which was purchased from the City of Bellevue. Year 2001 production from operating city wells was approximately 1.600 acre-feet, as shown in Table 1. Planned and potential annexations (some of which have already occurred) and growth, based on a conservative annual growth factor 0.5%, as detailed in the City of Issaquah Draft 2002 Water Comprehensive Plan (2002 WCP), would expand the population to over 40.000 by the year 2020 serving nearly 18.000 ERU's. Based on an average daily consumption per ERU of 209 gallons per day (2002 WCP), the year 2020 projected Qa requirements would amount to approximately 4.200 acre-feet.

It is apparent from these growth estimates that the city's current water rights are inadequate. To address the forecasted shortfall in water needs, the City of Issaquah has contracted with the City of Seattle to supply surface water via a pipeline constructed in 2001. It is also apparent that the city's current approximately 60% usage of its allocated Qa of 2800 afy (Table 1) afy will likely rise to serve a portion of increased demand.

Table 1: City of Issaquah Water Rights Summary								
Well #	Certificate #	Priority Date	Qi (gpm)	Qa (afy)	2001 Use (Gal)	2001 Use (afy)		
COI-1	6343-A	03/30/67	630	1,000	78,110,000	240		
COI-2	7031-A	03/11/69	1,200	1,600	221,320,000	680		
COI-3A	G1-22733C	09/01/76	300	119*				
COI-3	G1-22734C	09/01/76	500	645*				
COI-4	G1-24809C	03/10/86	250	200	14,220.000	44		
COI-5	G1-24633C	04/02/85	150	1,600**	207,620.000	637		
Total			3,030	2,800	521,270,000	1,600		

Supplemental to 6343-A and 7031-A (max cumulative = 2600 afy)

Supplemental to G1-24809C, 6343-A and 7031-A (max cumulative = 2800 afy less amount from Wells 3 and 3A)

Other Water Rights in the Vicinity

A search of the Ecology water rights records indicates that there are 33 water rights, including those held by the City of Issaquah, within an approximate 1 mile radius of the proposed point of withdrawal in this application (Table 2).

Table 2: Issaquah Area Water Rights										
Name	WR No.	Purpose*	CFS	GPM	AFY	Priority	Sec	Twn	Rng	Qtr-Qtr Sec
CARLSON B J	SWC-09859	IR,CI	ļ-	-	3.6	7/16/1965	27	24	6E	NW/4NW/4
CARLSON BERTIL J	S1-00626C	FS	0.18	ļ-	-	6/27/1969	27	24	6E	NW/4NW/4
Darigold Inc	G1-21648C	CI	-	1100	1232	5/16/1974	28	24	6E	NE/4SE/4
Darigold Inc	GWC-00311	CI	-	500	405	4/6/1949	28	24	6E	NEJ4SEJ4
EISENTRAGER NORMA	S1-23145C	DS	0.001	-	0.5	6/9/1978	33	24	6E	SW/4SE/4
HILLERY D R	SWC-04972	DS	0.005	-	-	10/9/1951	33	24	6E	NE/4NE/4
HILLERY D R	SWC-04971	DS	0.005	1-	Ī-	10/19/1951	33	24	6E	E/2E/2NE/4
KEES T D	SWC-11359	DS	0.01	-	1	2/16/1960	34	24	6E	SE/4SE/4
Lakeside Gravel Co	GWC-00570	DS,CI	-	650	250	6/13/1950	27	24	6E	NW/4NW/4
Lakeside Gravel Co	GWC-01327	DG.CI	-	850	316	8/18/1952	27	24	6E	NW/4NW/4
LARSON E	SWC-04970	DS	0.01	-	-	10/9/1951	27	24	6E	SW/4SE/4
MCCRAY E	SWC-04858	DS	0.005	-	-	5/1/1952	27	24	6E	
MILES L	SWC-01643	IR,DS	0.02	-	F	8/20/1937	27	24	6E	SE/4SW/4
Mine Hill Community	SWC-06329	DM	0.2	-	-	5/27/1954	33	24	6E	SW/4NE/4
NIXFE	SWC-01814	IR,DS	0.01	-	-	8/15/1941	27	24	6E	
Pickenng Brothers	GWC-02985	DM	-	20	32	5/24/1956	28	24	6E	SW/4NW/4
SMITH EUGENE	SWC-01780	IR,DS	0.05		-	8/25/1939	27	24	6E	
SPWSD	G1-00289C	MU	-	3200	936	1/20/1972	28	24	6É	NE/4NE/4
SPWSD	G1-25428P	MU	-	2300	-	4/24/1989	28	24	6E	NE/4NE/4
SPWSD	G1-26014P	MU	-	2000	1608	12/24/1990	27	24	6E	SW/4NW/4
Squak Valley Water Club	SWC-07582A	DM	0.09	1-	-	10/20/1958	33	24	6E	SE/4SE/4
STONEBRIDGE E M	SWC-06600	DS	0.005	1-	-	7/15/1952	33	24	6E	NE/4NE/4
STROM WARNER A	SWC-04565	PO,DS	0.1	-	-	8/5/1936	33	24	6E	NE/4NE/4
Washington DFW	SWC-01330	FS	10	[-	-	1/28/1939	33	24	6E	NE/4SE/4
Washington DFW	SWC-11478	FS	10	-	-	3/29/1968	33	24	6E	NE/4NE/4
Washington DFW	S1-00735C	FS	16	[-	-	11/14/1970	33	24	6E	
WILTSE F G	SWC-07573	DŞ	0.01	-	ļ-	3/24/1958	33	24	6E	SE/4NE/4

IR-impation, CI=Commercial, FS=Fire Safety, DS=Single Domestic, DG=General Domestic, DM=Multiple Comestic, MU=Municipal, PO=Power

Nineteen surface water rights are located in the immediate area of the proposed new point of withdrawal. These include 12 single hook-up domestic surface water rights (3 of which include irrigation), 4 for fish propagation (3 of which, totaling 36 cfs are held by Washington Department of Fish and Wildlife for use at the Issaquah Salmon Hatchery), one used for commercial purposes and irrigation, and two for community domestic water systems.

Surface and groundwater rights of significant quantity in the area of the proposed new well (Figure 2) include those used by the Lakeside Gravel Quarry (Qi = 1500 gpm, Qa = 566 afy), the WA Department of Fish and Wildlife (WDFW) Issaquah Salmon Hatchery (Qi = 36 cfs, non-consumptive). Darigold (Qi = 1600 gpm, Qa = 1637 afy), and the municipal water systems that share the Issaquah Valley Aquifer - Sammamish Plateau Water and Sewer District (Qi = 5500 gpm, Qa = 2109 afy) and the City of Issaquah (Qi = 3030 gpm, Qa = 2800 afy). The Sammamish Plateau water rights in the valley also include supplemental and seasonal rights allowing a pumping rate of up to 6,500 gpm during the winter months.

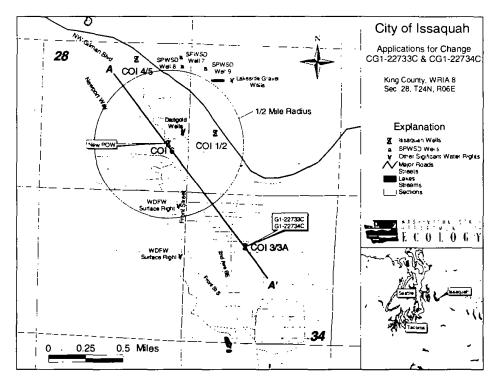


Figure 2: Detail map showing location of proposed changes and surface trace of geological cross-section (Figure 6).

Site Visit

The sites of COI-6 and the original COI-3A/3 location were visited by the author, Douglas Wood, on March 18, 2002. Water system infrastructure and well house foundations were examined at the former site of COI-3A/3. The COI-6 site was examined and it was noted that the well site is located in the city's works yard. The COI-6 wellhead is currently covered and fenced off to secure the site from potential contamination. Mr. Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, informed Ecology during the site visit that the city will soon relocate the city works yard, which will further protect the wellhead area.

Correspondence Received

The City of Issaquah was granted a Preliminary Permit to drill and test two wells to replace wells COI -3, and 3A on May 30, 1997. A letter from Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, dated February 23, 1998, informed Ecology that the results of the City's tests indicated that the new well for both water rights will be the well designated COI-6.

Mr. Steve Bessow of the Washington Department of Fish and Wildlife (WDFW), after reviewing the proposed changes for G1-22733C and G1-22734C, informed Ecology in a letter dated May 29, 2002, that WDFW has no objections or comments to these changes. In a letter dated February 14, 2003, Mr. Bessow, upon reviewing more recent information on the proposed new point of withdrawal, recommended that groundwater withdrawals in hydraulic continuity and Issaquah Creek be considered surface water diversions and thus closed to appropriation. He also requested that any replacement wells be denied if found to be in other than negligible hydraulic continuity the surface waters.

Topographic and Local Area Maps

Geological maps and reports, published through the US Geological Survey and from other sources relevant to this investigation were examined to provide geological and hydrological conditions relevant to the proposed change in point of withdrawal. Maps generated using AreView GIS software were used to examine locations of the proposed new point of withdrawal in relation to other City wells, other water rights, and to Issaquah Creek and other surface water bodies.

City of Issaquah Water System Plans

The City of Issaquah 1996 Water System Plan Update and the Draft 2002 City of Issaquah Water Comprehensive Plan (2002 WSP) provide information on system infrastructure, existing system water rights, growth projections, and water system boundaries.

Issaquah Creek Valley Groundwater Management Plan

The 1999 Issaquah Creek Valley Groundwater Management Plan and supplemental Area Characterization provide hydrogeological background information and insight into water issues within the Issaquah area.

Golder Associates Reports for the City of Issaquah

City of Issaquah supplied their consultant's (Golder Associates) reports on groundwater assessment, geophysical studies of the Issaquah valley, well tests and aquifer modeling. These reports provided a detailed assessment of hydrogeological conditions within the Issaquah Valley Aquifer. The most recent detailed technical document supplied by the applicant is a

report entitled "Groundwater Expection and Pumping Tests – Lower Issaquah Value dated October 30, 2000. This report (Golder, 2000a) contains pump tests data for the proposed new well (COI-6) and has cross-sections and hydrogeological interpretations based on these tests and geophysical and modeling studies relayed in earlier reports. The November 2000 report on modeling (Golder, 2000b) provides short and long-term modeled estimates of the effects on stream flows resulting from pumping at the proposed new point of withdrawal. Additionally, a technical memorandum presenting a comparison of the hydrogeological characteristics of the proposed new point of withdrawal with those of the original wells included in the application, prepared by Golder Associates hydrogeologist Robert Anderson in October 2002, was supplied the City of Issaquah (Golder, 2002).

Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed

The report, in the form of technical memorandum, was prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe, February, 2001. This report discusses the effects of groundwater withdrawals on stream flows in Issaquah Creek (Massmann, 2001).

FINDINGS

In accordance with Ecology policies and Washington State law, the following considerations were addressed during the process of evaluating this change request:

- Will the change create an enlargement of the original right?
- · Has a protest been filed against the proposed change?
- · Will the change cause impairment to other existing rights?
- Is water available at the new point of withdrawal?
- Does the new point of withdrawal tap the same source of water as the original right?
- · Is there potential for different impacts on the water source?
- · Will the proposed change be detrimental to public welfare?

Potential for Enlargement

Washington State statutory and case law require that approval of a groundwater change must not result in an enlargement of the right (RCW 90.44,100; Schuh v. Ecology, 100 Wn.2d 180; Merrill v. PCHB, 137 Wn.2d 118). In the Merrill decision the Washington Supreme Court also requires Ecology to evaluate whether the right has been relinquished to the State through non-use or abandonment.

Based on the Washington Supreme Court's 1998 Theodoratus case (135 Wn.2d 582), Ecology reviews applications for changes or amendments to groundwater certificates that were issued pursuant to RCW 90.44.080, where an evaluation was not performed as to the perfected annual quantity put to beneficial use before issuance of the certificate.

The proof of appropriation for G1-22734C was filed on June 9, 1981. The document states that instantaneous quantity was perfected in the amount of 1100 gpm. Ecology permit writer Janet Jorg determined at that time that the actual pumping rate was 500 gpm, consistent with the permit, G1-22734P, issued March 15, 1977.

Based on proof of appropriation documentation, copies of notes on water production provided by the City of Issaquah, drilling and decommissioning logs on file with Ecology, and remaining infrastructure seen in field, it is tentatively determined that the right has been beneficially used for municipal supply purposes and is eligible for change.

The water right being investigated (G1-22734C) was certificated for municipal purposes. The right is therefore exempt from relinquishment for non-use under RCW 90.14.141(d).

The common law principal of abandonment is applicable in the case of municipal water rights. Common law abandonment, as discussed by the Supreme Court of Washington 1997 Twisp Case (133 Wn.2d 769), does not however apply to the current application. The City of Issaquah made efforts to replace the wells through the filing of this application in 1997, thus establishing that the city did not intent to abandon the right after decommissioning the well in 1993.

Certificate G1-22734C was issued in the amount of 500 gpm on August 31, 1981, with an annual quantity of 645 afy, supplemental to existing rights under certificates GWC 6343-A and GWC 7031-A.

Table 3: 2	2001 City of	Issaquah We	Il Production	n Records*
	COI- 1	COI-2	COI-4	COI-5
JAN	2,370,000	13,860,000	190,000	18,010,000
FEB	0	15.900,000	0	17,170,000
MAR	0	21,460,000	0	15,060,000
APR	0	15.246,000	0	18.570.000
MAY	5,540,000	17,766,000	0	21,000,000
אטנ	11.420.000	22,175,000	0	10,290,000
JUL	11,660,000	28.917,000	2.240,000	14,740,000
AUG	10,660,000	24,633,000	3,190,000	21,690.000
SEP	8,640.000	20,601,000	2,550,000	20.790,000
OCT	9,880,000	11,907,000	1,630,000	20,290.000
NOV	8,960,000	13,797,000	2,110,000	14.410.000
DEC	8,980.000	15.057,000	2,310.000	15,600,000
Total (gal)	78.110,000	221.320.000	14,220.000	207.620,000
Total (afy)	239.71	679.21	43.64	637.16

^{*} Supplied by City of Issaquah

The annual quantity of 645 aly allocated under G1-22734C is supplementary to groundwater certificates 6343-A and 7031-A, therefore perfection of the annual quantity under G1-22734C requires that 645 afy be utilized in any year by the wells sharing the primary annual quantity (2600 afy).

Well production records for the year 2001 for city wells COI-1, COI-2 and COI-5, all of which share the same 2600 afy annual quantity, were supplied by the Public Works Department of the City of Issaquah (Table 3). These show that in 2001 COI-1 and COI-2 produced 918.9 afy and COI-5 produced a further 541.6 afy supplementary to COI-1/2 (the remaining production from COI-5 was supplemental to water rights for COI-4), giving a total use of 1460 afy under the 2600 afy allocation for the COI-1/2 water rights.

Quantities available for change for water under G1-22734C are 500 gpm Qi and 645 afy Qa. Annual quantity remains supplementary to the rights under certificates 6343-A and 7031-A, whose annual usage of 1.460 afy for the year 2001 is in excess of the 764 afy allocated under groundwater rights for G122734C (645 afy) and G1-22733C (119 afy).

Given the above analysis, it is the finding of this investigation that approval of the requested change will not result in an enlargement of the right.

Protests

There were no protests filed in response to the proposal to change the point of withdrawal from wells COI-3A/3 to well COI-6. The Muckleshoot Indian Tribe however has expressed concerns that approval would result in a greater total withdrawal from the Issaquah Valley Aquifer and that the connectivity between the aquifer and streams would cause impairment to instream flows necessary to support fish populations.

Ecology, as expressed in this report, recognizes the relationship between groundwater withdrawals, stream flows and fish habitat. Based on the information reviewed as part of this investigation, it is tentatively found that the City of Issaquah retains the right to the withdrawal of groundwater under certificates G1-22733C and G1-22734C as established under Chapter 90.44 RCW and is entitled under RCW 90.44.100 to propose a change to the point of withdrawal so long as (1) the proposed change will not result in an enlargement as conveyed by the original certificate. (2) the new point of withdrawal taps the same body of groundwater. (3) water is available at the new point of withdrawal. (4) the change does not impair existing water rights, and (5) the proposed change is not detrimental to the public interest.

The findings of this investigation are that the City of Issaquah and its consultants have provided sufficient evidence to show that the proposed new point of withdrawal would tap the same aquifer, is not likely impair existing water rights, and will not constitute an enlargement under the certificate. However Ecology's investigation reveals that the change as proposed is likely to cause a greater impact to stream levels, particularly in the mainstem of Issaquah Creek close to the location of the Issaquah Salmon Hatchery, than withdrawals from the well original location, thus indicating that a potential detriment to the public interest would result if the proposed change were approved.

Impairment of Other Rights

Aquifer tests and computer groundwater modeling conducted by Golder Associates after construction of COI-6 (Golder, 2000a and 2000b) indicate that pumping at the proposed new point of withdrawal will result in a 0 to 1 foot drawdown on groundwater levels in the shallow aquifer zone which is also utilized by the Darigold Dairy wells and City of Issaquah wells COI-1 and COI-2 (Figure 3).

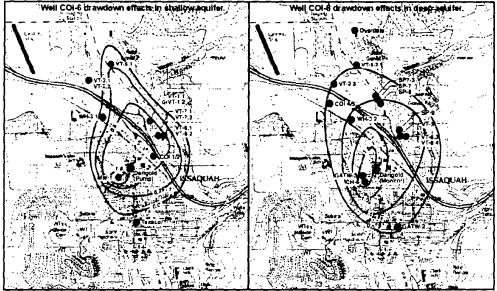


Figure 3: Drawdown effects from proposed well COI-6.

The amount of drawdown in wells tapping the deeper portion of the aquifer is greater than within wells utilizing shallow groundwater. The drawdown, from 0 to greater than 1.5 feet, is not however expected to cause interference which would unduly impact existing groundwater water rights within its zone of influence. The same may not be true with respect to surface water bodies in hydraulic continuity with groundwater within the zone of influence (cone of depression).

Surface bodies in hydraulic connection with the Issaquah Valley Aquifer within the zone of influence of the proposed new point of withdrawal will probably be impacted by pumping. The degree of impact was not measurable during testing of Well COI-6, however it is likely to be noticeable through long term continuous pumping as is authorized under the existing certificate, with its greatest impact felt within the drawdown area outlined for the shallow aquifer zone in figure 3. It is not

likely however that the total quair of water produced from the proposed new we wived from surface water bodies would be greater than that which would result from pumping at the original point of withdrawal (Massmann, 2001).

The small amount of drawdown encountered for the deep aquifer zone in the testing of COI-6 is indicative of significant hydraulic continuity between the deeper portions of the Issaquah Valley Aquifer with shallower groundwater and surface water. Minimum instream flows set by regulation under chapter 173-508 WAC represent water rights which must be considered under an impairment evaluation for a change or amendment to a water right. However Issaquah Creek and its tributaries were closed to further appropriation under WAC 173-508-030 and 040 rather than having minimum instream flows set. An evaluation of impairment to the creeks as existing water rights is therefore not appropriate for the application under consideration. It is appropriate however for Ecology to investigate whether any impact the proposed new point of withdrawal might have on stream flows would be contrary to public interest (see section of this report on Public Interest).

Source of Water and Availability

The Issaquah Valley Aquifer system is hosted in alluvial and glacial sand and gravel deposited during and following the most recent ice age which lasted from approximately 35,000 to 10,000 years before present. It is located in the east-central portion of WRIA 8 (Cedar-Sammamish Water Resources Inventory Area), within an area designated herein as the Issaquah - Lake Sammamish sub-basin (Figure 4).

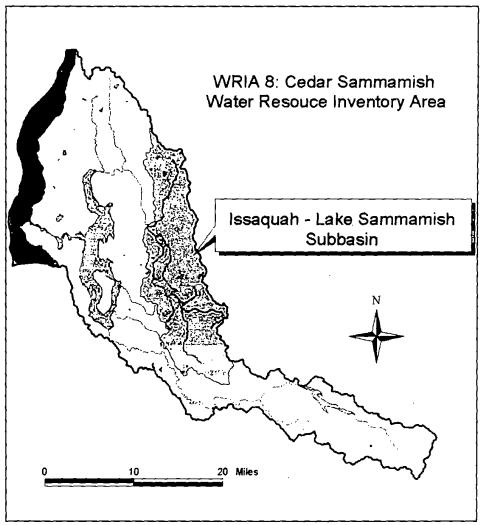


Figure 4: Map showing location of the Issaquah-Sammamish sub-basin of WRIA 8.

Issaquah Creek has three principal tributaries: the mainstem, East Fork, and North Fork (Figure 5). The mainstem drains the south and westernmost slopes of Tiger Mountain and the eastern slopes of Squak Mountain. The East Fork of Issaquah Creek drains the south flank of Grandview Ridge, the northern slopes of Tiger Mountain and the Tradition Lake Plateau. The North Fork of Issaquah Creek drains a portion of the Issaquah Highlands/Grand Ridge area and the western edge of the southernmost portion of the Sammamish Plateau.

Groundwater recharge for the Issaquah Valley Aquifer system is supplied by infiltration of rainfall from the northern slopes of Squak and Tiger Mountains, the lower portions of the Issaquah valley, the Tradition Lake Plateau, and a portion of the Issaquah Highlands /Grand Ridge area. Near the confluence of the mainstem of Issaquah Creek and East Fork, the location of the proposed new point of withdrawal at well COI-6, the bulk of groundwater recharge originates from the northwestern slopes of Tiger Mountain, the eastern slopes of Squak Mountain and the Tradition Lake Plateau (Figure 5).

Longer term storage and recharge of the aquifer is possible from sandstone bedrock which underlies both Squak and Tiger Mountains, but little is known about the quantity of recharge from this source or its ability to store groundwater.

Water Availability

A determination of water availability of a water right is made at the time the original water right application is investigated. The original Report of Examination on the water right, dated January 31, 1977, affirmatively established that water was available and a water right consisting of an instantaneous quantity of 500 gallons per minute with a supplemental annual quantity of 645 afy was issued.

Previously allocated groundwater rights totaling 2600 afy were already held by the City of Issaquah in 1977 and this primary annual amount was deemed sufficient to supply the city's then and projected needs (10,000 population by 1997). With this in mind the City of Issaquah was allocated a supplemental annual quantity under G1-22733C and G1-22734C. The annual quantity for Wells 3A and 3 are both supplemental to the primary quantities allocated under right for Wells 1 and 2 (GWC 6343-A and GWC 7031-A). All four wells utilize the same source, the Issaquah Valley Aquifer.

Subsequent to the issuance of permits for G1-22733 and G1-22734, the City of Issaquah applied for and was allocated additional groundwater rights from the Issaquah Valley Aquifer (G1-24809C and G1-24633C) for COL4 and 5. In addition the Sammannish Plateau Water and Sewer District (SPWSD) has been issued groundwater rights for three wells located in the Issaquah Valley that utilize the same aquifer.

The groundwater recharge area of the Issaquah Valley Aquifer encompasses the surface area of the Issaquah Creek and Tibbets Creek watersheds (see Figure 5). While surface water from the entire watershed contributes to groundwater in the aquifer through losing stream segments, the groundwater regime in much of the southernmost Issaquah Creek watershed and most of the Tibbets Creek watershed does not contribute directly to groundwater recharge at the COI-6 location.

Most groundwater flow in the portion of the Issaquah Creek watershed situated south of Tiger and Squak mountains flows to the west into the aquifers of the Cedar River (WRIA 8) and Green River (WRIA 9) watersheds. Groundwater from the Tibbets Creek watershed is isolated from the location of COI-6 by a spur of bedrock extending north from Squak Mountain, and much of the groundwater north of the East Fork of Issaquah Creek (Issaquah Highlands/Grand Ridge area) flows northward into the Sammamish Plateau and the Snoqualmie Valley aquifer systems.

The bulk of recharge for the aquifer system at the location of well COI-6 originates as rainfall within the immediate valley area and from the Tradition Lake Plateau area (the East Fork watershed draining the northern slopes of Tiger Mountain and southern slope of Grand Ridge). This area encompasses approximately 7,000 acres of the over 45,000 acres within the Issaquah and Tibbets Creeks surface watershed (Figure 5).

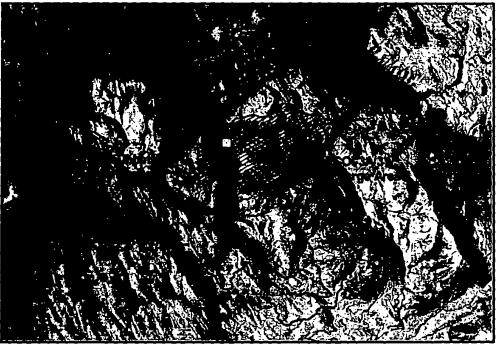


Figure 5: Map showing the Issaquah and Tibbets Creek watersheds and the recharge area for the proposed new well.

Massmann (2001) estimates that Issaquah Valley Aquifer system receives approximately 14,000 to 18,000 afy (recalculated from 20 to 25 cfs) in recharge annually. Groundwater rights have been allocated for approximately 10,000 afy (Table 2) not including rights granted outside of the area within approximately one mile of well COI-6. Massmann (2001) also cites an estimate by Ecology that actual use from wells in the area is less than half of the current allocation or approximately 3,600 afy (5 cfs).

In the present application the proposed new point of withdrawal is further down-gradient within the same aquifer as the original point of withdrawal and recharge occurs from a larger eatchment area, and thus would thus be more capable of supplying the same quantity of water.

Well test data supplied by the City (Golder, 2000a) suggest only minimal drawdown to the water table in the area of the new well (0 to 1 feet; see Figure 3). Tests were conducted during late summer when stream flows are most critical to fish habitat. Pump tests and stream gaging, done in conjunction with aquifer testing, indicate that surface water bodies are perched in late summer in this area and therefore not in close hydraulic continuity with the water table at the immediate area of the well during this part of the season. During the remainder of the year the water table associated with the Shallow Aquifer Zone is in closer hydraulic continuity with streams and creek levels would be affected.

Based on the results of computer the ling of the proposed new point of withdrawal (Court, 2000b), long term pumping would result in 85% of well withdrawals being derived from shallow groundwater sources in close hydraulic continuity with Issaquah Creek (~500 gpm of 600 gpm modeled pumping after 300 days, when steady state is achieved). The model shows that if pumping is discontinued after 115 days, less than 50% of pumping volume would be derived from shallow sources (~270 gpm of 600 gpm).

While the total impact, in terms of both drawdown and stream capture, would be spread along the creek and over a wide area of the shallow aquifer zone, the strongest effects of pumping would occur in the immediate area of the proposed well within the cone of depression of the shallow aquifer zone as shown in Figure 3.

The model effects are reported as being conservative (Golder, 2000b), and therefore are likely overstated. Since the model was based on a pumping rate of 600 gpm, the estimates are not accurate for the proposed changes for G1-22733C and G1-22734C totaling 800 gpm, but still give a reasonable estimate of the magnitude of stream impact.

Source of Water

Both the original and the new point of withdrawal utilize groundwater from within the Issaquah Valley Aquifer system (see Figure 6). Therefore the proposed change conforms to requirements of RCW 90.44.100 that replacement wells must tap the same body of groundwater.

At both locations wells tap the deep, sand and gravel hosted, semi-confined, aquifer zone that is separated from the shallow water table aquifer zone (also hosted in sand and gravel) by a lower permeability silt, fine sand and clay layer of lacustrine origin. Lenses of silt and clay and in places glacial till, locally form low permeability layers that do not significantly restrict vertical mobility of water within the upper portion of the aquifer.

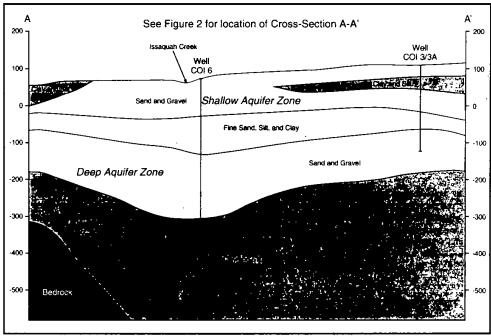


Figure 6: Cross-section between wells COI 3A/3 and the proposed new well COI 6 (after Golder and Associates, 2000).

Potential for Different Impacts on the Water Source

The City of Issaquah is currently utilizing (based on data supplied by the City of 2001 well production) 1600 afy out of their total allocation under existing certificates of 2800 afy. Approval of the applications for change for groundwater certificates G1-22733C and G1-22734C will result in the City being capable of producing 764 afy toward that amount. Note however that, under changes the legislature passed in 1997 to RCW 90.44.100, the city has the authority, independent of these applications, to drill a replacement well or wells at the original location of wells COI-3A/3, giving the City of Issaquah the freedom to use the entire 764 afy from rights under certificates G1-22733C and G1-22734C without filing applications for change.

The City's consultants (Golder, 2002) suggest that withdrawals from the proposed new point of withdrawal will result in less overall impact to the environment due to: (1) the greater thickness of the leaky aquitard at the new location (thus resulting in less impact to shallow groundwater and surface water bodies in the immediate area of the well), (2) a greater, more diversified recharge area for waters withdrawn at the proposed new well, and (3) because groundwater from the new well would not likely interact with surface water flows above Lake Sammamish.

While these claims appear on their face to be reasonable based on what is known about the aquifer and on the dynamics of pumping, it relies on an assumption that there will not be a direct impact on stream flows as a result of pumping. Pumping tests (Golder 2000a) however suggest that there will be an impact on the shallow aquifer zone within zone of influence (cone of depression) of the new well and hence on stream flows within the zone that would not occur with pumping at the original point of withdrawal. During pumping at the proposed new well, stream flow within the zone of influence that would have otherwise stayed within the stream and/or shallow aquifer zone, would instead be drawn down into the deeper aquifer zone and contribute to pumped volumes.

Public Interest

The Fast Fork. North Fork and mainstem of Issaquah Creek are closed by rule under WAC 173-508-030 and 173-508-040 to preserve stream flows required to support salmon habitat. The streams have been administratively closed since 1950 when the

Washington State Department of Fisheries requested that all remaining stream flows were required to support salmon spawning and rearing habitat. In 1971 the USGS performed field surveys of Issaquah Creek that indicated that flows between May and November were inadequate for support of fish populations, confirming that Issaquah Creek and all its tributaries should be closed.

Approval of the requested change in point of withdrawal will not after the quantity allocated under certificate G1-22734C, thus there would be no net gain in the quantities available under the right from the source aquifer. There is information however that indicates the proposed change in the point of withdrawal would result in greater local contribution from closed streams to pumped quantities.

It is generally agreed among hydrogeologists that groundwater in alluvial aquifers is closely associated with surface water bodies occupying the same valley. The understanding of hydraulic continuity supports the concept that groundwater withdrawals from an alluvial aquifer divert all or a portion of the pumped volume from streams and other surface water bodies occupying surface areas of the alluvial valley.

The current application seeks to replace a point of withdrawal located on the periphery of the alluvial aquifer at a distance of approximately 2000 feet from each of two closed streams (East Fork and mainstem of Issaquah Creek) with a new point of withdrawal located approximately 200 feet from the streams. The effect of withdrawals from each location must be analyzed with respect to their effects on both streams in order to determine whether approval of the change will result in a net increase to the amount of water that the new well will derive from creek flow.

The degree to which pumping from a well can effect stream flows is largely dependent on the distance of the well from the stream, the depth from which water is withdrawn and on the ability of the aquifer and intervening aquitard media to allow the transmission of water (hydraulic conductivity).

Unconfined aquifers, i.e. aquifers not separated from the surface by a low permeability aquitard, are generally found to be in closer hydraulic continuity with streams. Withdrawals that derive water from unconfined aquifers, particularly when they are in close proximity to streams, have a more pronounced effect on stream flows than withdrawals from confined aquifers.

In the Issaquah Valley Aquifer an aquitard of varying thickness and hydraulic conductivity occurs such that the degree of hydraulic connection between the point of withdrawal and surface streams is largely dependent on the position within the valley of the well. An aquitard overlying a confined aquifer that allows significant hydraulic connection with a shallower aquifer is considered to be "leaky". Aquifer tests at Well COI-6, where shallow aquifer water levels were lowered by up to 1 foot, are consistent with the existence of a leaky aquitard separating the aquifer at well intake level from the shallow aquifer near the surface.

Robert Anderson, in his technical analysis of the original and proposed new points of withdrawal (Golder, 2002), states that moving the point of withdrawal to Well COI-6 will result in less impact to the environment based on his analysis of well completion depth, recharge area, distance of each point of withdrawal from Issaquah Creek, and the thickness of the aquitard at the two well locations. Anderson's analysis however assumes that the city would only use Well COI-6 for summer peaking requirements. The applicant has not however requested a reduction in the period of use for this water right and therefore Ecology must evaluate effects on stream flows consistent with the well operating continuously as currently authorized under the certificate. In addition Anderson does not take into account the direct effect that pumping will have on surface water bodies with the well's zone of influence.

Anderson (Golder, 2002) estimates that at the original point of withdrawal (Wells COI-3A/3), the contribution to well production from the shallow, unconfined aquifer would be greater than 90% after only 10 days of pumping. He also states that groundwater computer model analysis (Golder, 2000b) indicates that after 100 days of pumping at COI-6, the contribution from leakage would be less than 50% of pumping volume. The model also indicates that if the well is pumped continuously the contribution through leakage would reach 85% of pumping volume. At either location, the contribution from leakage would include water from the shallow aquifer and a component from stream flows, whose magnitude would largely be dependent on the distance to the surface water body and the direction and velocity of flow in the aquifer.

The difference in leakage between the two locations can be explained by the relative thicknesses of low permeability material present at both locations. At Well COI-6 a sandy silt aquitard overlying the completion zone is some 140 feet thick, while at COI-3A/3 the low permeability material overlying the completion zone is only a few feet thick. It is not certain whether the silt layer present at both locations is continuous. The leakage suggests that it is not. Well 3A/3 also has a 20 foot thick glacial till layer near the surface. This till layer however is discontinuous in the valley and does not form an effective aquitard.

Well COI-3A/3 is nearly 10 times the distance from either the East Fork or mainstem of Issaquah Creek than is Well COI-6. The effect of withdrawals from a well in hydraulic connection to a stream drops off rapidly with distance of the well from the stream. It is likely therefore that the contribution of stream flows to pumping volume would be greater at the proposed new point of withdrawal than from Wells COI-3A/3 due to the difference in distance from the streams. The presence of the thicker aquitard at COI-6 would likely attenuate the effect in the short term, but would, on a long term basis, result in a greater impact on the shallow aquifer and ultimately on stream flows in the immediate area of the well.

Anderson points out that the recharge area of the original point of withdrawal is limited largely to Tradition Lake Plateau and that the recharge area for Well COI-6 includes a much larger area, with contributions from the upper Issaquah Creek valley, the East Fork/Issaquah Highlands area in addition to the Tradition Lake Plateau. While the greater diversity in recharge sources suggests that withdrawals at Well COI-6 would cause less overall stress on the aquifer, they do not lessen the potential to cause a greater impact on stream flows in the zone of influence of the proposed new point of withdrawal, where pumping stress on the shallow aquifer and streams would be greatest.

A change in point of withdrawal, as proposed, would result in a negative impact to the flow of water in a salmon spawning and rearing stream. The negative impact to a stream closed by rule, with no water available is detrimental to the interest of the people of Washington.

DISCUSSION

The proposed changes in point of withdrawal for G1-22733C and G1-22734C do not conform to all the requirements for approval of an application for change or amendment to a groundwater right under applicable statutes RCW 90.44.100 and RCW 90.03.290.



This investigation finds that appropriate the proposed change threatens to prove detring to the public interest, due to the impact that pumping at the proposed point of withdrawal would have on stream flows, and hence on salmon habitat in the East Fork of Issaquah Creek and the mainstern of Issaquah Creek, both of which are critical salmon habitat streams and closed to appropriation under Chapter 173-508 WAC. Ecology's concerns are supported by the Department of Fish and Wildlife whose objection to this application is based on the degree of hydraulic continuity of the proposed new point of withdrawal.

Under Ecology authority in the consideration of changes or amendments to groundwater rights, if approval threatens to prove detrimental to the public interest. Ecology has a duty to reject the application. It is also noted in this investigation that a denial of this application does not prevent the applicant from exercising the right by drilling a replacement well at the original published well location.

RECOMMENDATIONS

I recommend the proposed changes to groundwater certificate G1-22734C be denied and the application for change be rejected pursuant to the requirements of RCW 90.44.100 and RCW 90.03.290.

CONCLUSIONS

In accordance with chapter 90.44 RCW, and based on the findings of this report, I conclude that the proposed new point of withdrawal for groundwater certificate G1-22734C cannot be authorized.

REPORT BY

Douglas H. Wood, MS, LHG

DOUGLAS H. WOOD

Licensed Hydrogeologist (WA #952)

____ DATE: 6/5/2003

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PROGRESS SHEET - APPLICATION FOR CHANGE

CERTIFICATE NO. G1-22734C

NAME:

City of Issaquah P.O. Box 1307 Issaquah, WA 98027

98027 DENE

Appurtenant to Water Right Certif.	icate No. G1-22734C
PURPOSE OF APPLICATION to change	place and point of withdrawal
Application originally received	4/30/97 Fee Paid \$10_4/30/97
Returned for completion or corre	ection
returned_	
PUBLICATION: Ok'd by .D to	DateNotice Sent_6/7/2005
Protests	1 '
	by
	by
Affidavit received and checked_	DAY Time Expires 8/16/02
EXAMINATION: Made $6/5/2003$	by D Wood
CERTIFICATE: Ok'd for issue by	
Statement of fee mailed	Amount \$5
Fee received	
Certificate of Change Issued	

Gilman Well 4

Certificate G1-24809CWRIS

Department of Ecology

APPLICATION FOR PEOPLE examined this application TO APPROPRIATE PUBLIC WATERS OF THE STATE OF MASHINGT ON and find that it is: I not an "action".

SURFACE WATER

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X	GROUND	WATER	

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SURFACE WATER

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

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of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

DESCRIPTION OF PROPOSED WORKS

Test/production well located approximately 65' east of Issaquah Creek. Well is 20" casing, installed to 54' and 16' well to 200 feet.

DEVELOPMENT SCHEDULE							
BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE: WATER PUT TO FULL USE BY THIS DATE:						
Started	6 mcs. from permit issuance 1 year from permit issuance						

REPORT

Background:

This application was filed on March 10, 1986, requesting continuous withdrawal of ground waters for backup municipal supply. The legal notice was published on June 25, 1986, and July 2, 1986, in The Issaquah Press, a legal newspaper in Issaquah, Washington. The 30-day protest period prescribed by law has expired and no protests or objections were received. This application was identified as categorically exempt under the State Environmental Protection Act.

Investigation:

This writer and Roy Bishop have undertaken an office investigation pertinent to the application. The location of the well is near the I-90 crossing of Issaquah Creek, in the rapidly developing western side of the City of Issaquah. Issaquah Creek is closed to surface water diversions and this investigation is concerned that hydraulic continuity between the well and the creek should not occur. The ground water geology of the valley basin is relatively productive and is expected to be more fully utilized in the future. A ground water management program, designated under Chapter 173-100 WAC, has been initiated in this årea, although it should not materially affect whether this permit should issue.

The site was visited on October 22, 1986, and the shallow production well was located as stated on the application, approximately 65 feet east of Issaquah Creek.

The City of Issaquah began development of production wells in this location in 1984. Exploration of the shallow well produced only modest supplies and the City of Issaquah commenced exploration of deeper aquifer sources. The permit requested herein is for the shallow production well. Permit #G1-24633 for the deeper production well was issued on April 15, 1986. Development of both wells is fully documented in "City of Issaquah 1984/1985 Drilling Program" by Robinson & Noble, Inc. (Taccma, Washington).

The shallow well was drilled to 200 feet, but subsequently drawn back to 112 feet below land surface. Twenty-five feet of screen exposes the well to an orange-brown sand and gravel layer lying between 75 and 104 feet below land surface.

The shallow well was tested for a 24-hour period at an average discharge of 240 gpm. The pumping water level at the conclusion of the test was 57 feet below land surface which is 51.5 feet below the pretest static water level of 5.5 feet. The water level was nearly stable after the first eight hours of pumping at 250 gpm. Recovery data agrees with the drawdown data and indicates a regional average aquifer transmissivity of approximately 25,000 gpd/ft.

Water District 82 has wells approximately 2,000 feet east of the site. These were developed for 3,200 gpm under Permit #G1-00289P issued on January 20, 1972 and December 12, 1972. No drawdown interference attributable to the pumping test was recorded at Water District 82 wells, as observed by J.R. Carr and Associates.

The hydrogeology of the area begins with 38 feet of silt and clay and 40 feet of semi-permeable silt and fine sand. These units overlie the "shallow aquifer". Another silt and clay sequence underlies the shallow aquifer and effectively isolates it from the deeper aquifer. Hydraulic continuity is not identified at this site. The Robinson & Noble report states that low permeability surface material (silt and clay) tends to (at least locally) isolate surface water systems from the shallow aquifer.

Conclusion:

In accordance with Section 90.03 and 90.44 RCW, I find that there is water available for appropriation from the source in question and that the appropriation as recommended above will not impair existing rights or be detrimental to the public welfare. Therefore, permit should issue subject to existing rights and indicated provisions.

Recommendation:

I recommend that this application for continuous municipal supply be approved for the requested 250 gpm. The expected usage of the well will be for approximately 12 hours daily throughout the year. Therefore, the annual withdrawal shall not exceed 200 acre-feet/year.

The amount of water granted is a maximum limit that shall not be exceeded and the water user shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

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

REPORT BY: John & Jalenson DATE: 2/2/87

PERMIT

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

Surface Water	Issued in accordance with the promendments thereto, and the rule	wisions of Chapter 117, a and regulations of the	Laws of Washingt Department of Ed	ton for 18 (elogy.)	17, and
💹 Ground Water 🖞	issued in accordance with the promendents thereto, and the rule	wisions of Chapter 263, and regulations of the (Laws of Washingt Department of Ec	on for 18- ology.)	15, and
PRIORITY DATE APPL	ICATION NUMBER	PERMIT NUMBER	(CERTIFIC	ATE NUMBER
March 10, 1986	G1-24809	G1-24809P			
		~~~			
NAME					
City of Issaguah	(CITY)		(STATE)		(ZIP CODE)
ADDRESS (STREET) P.O. Box 1307	Issacıv	a <b>h</b>	Washing	N-CD	98027-1307
The applicant is, pursuant to the a permit to appropriate the folic and to the limitations and provisi	owing described public w	which has been ac aters of the State	cepted by the of Washington	e applica n, subje	ant, hereby granted ct to existing rights
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TRIBUTARY OF (IF SURFACE WATERS)					
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The water will be used for	r public use within	the City limit	s of the C	ity	

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

DESCRIPTION	OF I	PROP	DSED	WORKS

Test/production well located approximately 65' east of Issaquah Creek. Well is 20" casing, installed to 54' and 16' well to 200 feet.

	DEVELOPMENT SCHEDU	LE
BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: December 15, 1987	WATER PUT TO FULL USE BY THIS DATE: June 15, 1988 89

#### PROVISIONS

The amount of water granted is a maximum limit that shall not be exceeded and the water users shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

A certificate of water right will not be issue concrete. The a tope the conion 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 under my hand and the seal of this office at Redmond, Washington, this 15 day of June 19.87.....

ENGINEERING DATA

Department of Ecology

Nancy Ellison, Regional Manager

### STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

### CERTIFICATE OF WATER RIGHT

Ground V	Vater (Issued in accordance with amendments thereto, and	the provisions of Char the rules and regulation	pter 263, Laws of Washin as of the Department of I	gton for 19 Ecology.)	145, and
PRIORITY DATE	APPLICATION NUMBER	PERMIT NUI			CATE NUMBER
March 10, 1986	G1-24809	G1-24809	gp	G1-24	B09C
NAME					
City of Issaguah					
ADDRESS ISTREETI	(CITY)		(STATE)		(ZIP CODE)
Post Office Box 1307	Iss	aguah	Washing	ton	98027-1307
contained in the Permit is in accordance with the law	erein named applicant has m rs of the State of Washington sued by the Department of Ec ws of the State of Washington s limited to an amount actua	as herein defined, ai cology, and that said . and is hereby conf	nd under and specific I right to the use of sa Iirmed by the Departr	ally subje	ct to the provisions
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OT	RECORD BLOCK	ED PLATTED PROP			
<b></b>	BEOCK	OF GIVE NAM	ME OF PLAT OR ADDIT	ION)	
LE	GAL DESCRIPTION OF PRO	PERTY ON WHICH	WATER IS TO BE I	ISED	
	d for public use with		<del></del>		<del> </del>

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

#### PROVISIONS

The amount of water granted is a maximum limit that shall ... It be exceeded and the water users shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at

Redmond

Washington, this .... 15th. day

of September 19 89

Department of Ecology

engineering part.

by Alleman M. Buggues
Herman H. Huggins, Section Sepervisor Water Resources

FOR COUNTY USE ONLY

## STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

COMPLITER INPUT

APPLICATION

	,						-	PERMIT	
. •	·		PROGRE	SS SHEET			-	OTHER	
	SUR	FACE WATE	ER	X GROUN	D WAT	ER	L		
		t; B:(1	34 M					TELEPHONE NO.	
NAME City of Issagua		4 15:11						391-1004	
ADDRESS P.O. Box 130		(CITY)		:	(STA	TE)		(ZIP CODI	Ē)
130 E Sunsot W	ay		Issaqua	<u>h</u>		Washing	ton		027-1307
ASSIGNED TO						TELEPHONE	NO.	DATE ASSIGNED	
ADDRESS		(CITY)	· · · · · · · · · · · · · · · · · · ·		(STA	ITE)		(ZIP COD	E)
APPLICATION NO C 1846	<u>রেখ</u>	PERMIT NO.				CERTIFICAT	ION NO.		
WALLICK LOIS HOPE TO SEE	V		C.1.2	48091	•	1	PA. ~ A	1000	
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		L	ΔPPL I	CATION		<u> </u>			
DATE APPLICATION RECEIVED		INITIAL 610.	OD FEE RECEI			DATE FEE RE	CEIVED		
March 10, 1986		E	YES	□ NO		Ma	rch 10.	1986	
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			TEMPOR	ARY PERMIT		·			
APPROVED BY						DATE ISSUE	U		
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	L			o - ४५ ICATION	L	8-23-89		- 47	
PROOF EXAM. REQUIRED		CERTIFICATE	NUMBER	CA A		DATE ISSUED			
YES	NO	CERTIFICATE	- Y.	; "IC		<u> </u>			
REMARKS '									

PROGRES\$

# Gilman Well 5

**Certificate G1-24633CWRIS** 



# APPLICATION FOR PER T TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

☐ SURFACE WATER

☑ GROUND WATER

\$10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION (GRAY BOXES FOR OFFICE USE ONLY)

	10			
C124633	8 Kine	PR	4-2-85	TIME ACCEPTED
APPLICANT'S NAME — PLEASE PRINT				BUSINESS TEL 391-1004
City of Issaquah			(07475)	HOME TEL 392-7595
ADDRESS (STREET)(P.O. Box 1307)	(CITY)		(STATE)	98027-1307
130 E. Sunset Way Date & PLACE OF INCORPORATION IF APPLICANT	Issaquah	<del></del>	W/1	30027-1307
		-		
	SOURCE	OF SUPPLY		
IF SURFACE WA		COURSE SUELL TUR	IF GROUND	
OURCE (NAME OF STREAM, LAKE, SPRING, ETC.) (I	· UNNAMED, SO STATE	Well	MEE, METETANTON THEME	
RIBUTARY		SIZE AND DEPTH 3	6" casing to 4	00' depth and ( ) 9-4 50' depth
		Per Bourn Sur	nd will send Noare week	commother application
		ISE		
SE TO WHICH WATER IS TO BE APPLIED (DOMES	ITIC SUPPLY, IRRIGATION, MINING,	MANUFACTURING, ET	۵.)	
Public water supply ENTER QUANTITY OF WATER OUBIG	FEET PER SECOND OR	GALLONS PER	MINUTE -2500	ACRE FEET PER YEAR 3000
			2000	gi an Glave & W
· Krystation.			(Rose)	market and the second
MES DURING YEAR WATER WILL BE REQUIRED				
Year around				the second second second second
rgram Australia (1986)				
HRIGATION, NUMBER OF ACRES	IF DOMESTIC USE, NUMBER OF TYPE, E.G. 1-HOME I-MOBILE HOME, 2-CAMPSITE	OF .		IF MUNICIPAL USE, ESTIMATED POPULATION
	DATE PROJECT WAS OR W			20 YEARS FROM TODAY 8000
DATE PROJECT WAS OR WILL BE STARTED December 1984	July 1985	ALL BE COMPLETED		
	TION OF POINT OF D	VERSIONAVIT	HDRAWAI	A CONTRACTOR OF THE PARTY OF TH
IF IN PLATTED PROPERTY	HON OF FOINT OF D	IVERSION WIT	HEIDAMAL	i, s
OT BLOCK OF (GIVE NAME OF PL	AT OR ADDITION) SI	ECTION TOWN RA	NGE ALSO, PLEASE E	NCLOSE A COPY OF THE PLAT AND T(S) OF WITHDRAWAL OR DIVERSIO
			MARK THE POIN	T(S) OF WITHDRAWAL OR DIVERSIO
				11/1/25
				779
IF NOT IN PLATTED PROPER				<del>"</del>
ON ACCOMPANYING SECTION MAPS, ACCURATED HORTH-SOUTH AND EAST-WEST DISTANCES FROM	M NEAREST SECTION CORNER OF F	PROPERTY CORNER.		11. 12
ALSO, ENTER BELOW THE DISTANCES FROM THE	NEAREST SECTION OR PROPERTY	CORNER TO THE DIVI	RSION OR WITHDRAWAL	W. S. C. Co.
375' south and 600 ft. eas	t of the N.W. corne	er of Section	1 28-24-RE N.   RANGE (E. OR	W) WM. COUNTY
	"	28 24	6E	King
Tax Lot #287	mel	20 1 27		1
1/1N/4	ME14			
DO YOU OWN THE LAND ON WHICH THIS SOURCE	E IS LOCATED. IF NOT, INSERT NAM	E & ADDRESS OF OWN	ER	2007
Robert W. & Lois H. Catter	all, 160 N.W. Gilma	n Blvd., Iss	saguah, WA. 98	3027 36 USED
	RIPTION OF PROPERT			פב טפנט
ATTACH A COPY OF THE LEGAL DESCRIPTION A REAL ESTATE CONTRACT, PROPERTY DEED OR	OF THE PROPERTY (ON WHICH THE TITLE INSURANCE POLICY, OR, COP.	E WATEH WILL BE USI Y CAREFULLY IN THE S	PACE BELOW.	
The water will be used for				y of Issaquah and
within the portion of uni				
		inty cocurry	CHC103CG WYON	in the oray, known as
the Issaquah County Island	].			
			·	

THAT IS YOUR INTEREST IN THE PROPERTY ON WHICH IS TO BE USED (PROPERTY OWNER, LESSEE, CON. T PURCHASER, ETC.)
Option for outright purchast  RE THERE ANY EXISTING WATER RIGHTS RELATED TO THE LAND ON WHICH THE WATER IS TO BE USED (INCLUDING WATER PROVIDED BY IRIGATION DISTRICTS OR DITCH COMPANIES.)  YES NO
AND INVESTIGATION AND INVESTIGATION OF THE PROPERTY.
Ground water source, the City of Issaquah presently owns and operates three wells in the City.
Permit Numbers: G1 22733P, G1 2273P, G1 2273 3C
DESCRIPTION OF SYSTEM PROPOSED OR INSTALLED FOR EXAMPLE: SIZE OF PUMP, CAPACITY OF PUMP, PUMP MOTOR HORSE POWER, PIPE DIAMETER, NUMBER OF SPRINKLERS, ETC.]
The proposed system will be two wells side by side. The first well is drilled to 200 ft. This
well will have a submersible pump with a 30 HP motor. A maximum of 500 GPM will be drawn from
this well. The second well will be a 16" casing down to 450'. We will be installing a
turbine pump with either a 10" or 12" column to a depth of 200'. The horsepower will be
200 to 250. The maximum withdrawal from this well will be 2000 G.P.M.
Talked to bang Sund 4-4-85 - two different agraphics he asked that we go with the desper well on this to row Gon and he would to file another implication for the Shullows well
and he would me file another implication for the Shallower well
REMARKS
- (for)
IF 10 ACRE-FEET OR MORE OF WATER IS TO BE STORED AND/OR IF THE WATER DEPTH WILL BE 10 FEET OR MORE AT THE DEEPEST POINT, A STORAGE PERMIT MUST BE FILED IN ADDITION TO THIS PERMIT. THESE FORMS CAN BE SECURED, TOGETHER WITH INSTRUCTIONS, FROM THE DEPARTMENT OF ECOLOGY.
SIGNATURES 9 1 CM / 1
Gar H. Sund, City Engineer
APPLICANTS SIGNATURE
Robert W. & Lois H. Catterall Collins Legal Landowners Signature
(PLEASE PRINT) 160 N.W. Gilman Blvd. Issaquah, WA. 98027
LEGAL LANDOWNER'S ADDRESS
FOR OFFICE USE ONLY
STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY SS.
, , , , , , , , , , , , , , , , , , ,
This is to certify that I have examined this application together with the accompanying maps
and data, and am returning it for correction or completion as follows:
In order to retain its priority date, this application must be returned to the Department of
Ecology, with corrections, on or before
Witness my hand thisday of
Department of Ecology

## STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

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

Surface V	Vater (Issued in a	ccordance with the protect the cole	ovisions of Chapter s and regulations o	r 117, Laws of Washin of the Department of E	gton for 1917, Ecology.)	and
Ground V		ccordance with the prosterior streets, and the rule				
PRIORITY DATE April 2, 1985	APPLICATION G1-24633	NUMBER	PERMIT NUMB		CERTIFICAT	
NAME City of Issaquah		<del></del>				
130 E. Sunset Way (P.	0. Box 1307)	(CITY) Issaquah	l	Washing	ton	58027=1307
			,			
,						
		PUBLIC WATERS T	O BE APPROPR	IATED		
Well 16" X 412'			<u> </u>			
TRIBUTARY OF (IF SURFACE WATER	3)					
MAXIMUM CUBIC FEET PER SECOND	MA	XIMUM GALLONS PER	MINUTE	MAX181000	RE-FEET PER VI	EAR
QUANTITY, TYPE OF USE, PERIOD O Municipal water supply	y - continuo	usly				
*Supplemental to exist	ting rights				<u> </u>	
ADDROVIMATE LOCATION OF D		CATION OF DIVER				
375 feet south and 60	feet east	of the northw	est corner	of Section 2	3	
		-	<del></del>			
LOCATED WITHIN (SMALLEST LEGAL	SUBDIVISION)	SECTION 28	TOWNSHIP N. RA	NGE. (E. OR W.) W.M.	W.B.I.A. CQ	UNTY King
	• •	RECORDED PL	ATTED PROPER	TY ·	<del></del>	······································
от	BLOCK		OF (GIVE NAMÉ	OF PLAT OR ADDIT	ION)	
LG	GAL DESCRIPT	ION OF PROPERT	Y ON WHICH W	VATER IS TO BE L	JSED	
Area served by City of	Issaquah					······································

Well 16" X 412' 200 - 250 HP pump

	DEVELOPMENT SCHEDUL	E
BEGIN PROJECT BY THIS DATE:		WATER PUT TO FULL USE BY THIS DATE:
Started	1 year from permit issuance	2 years from permit issuance
<del></del>		

#### REPORT

#### Background:

On April 2, 1985, the City of Issaquah submitted this application requesting 2,000; gallons per minute from a well for the purpose of municipal water supply.

Notice was published in the <u>Issaquah Press</u> on April 24 and May 1, 1985. No protests were received.

#### Investigation:

Evaluation for this application consists of review of office records and conversations with the applicant and the applicant's groundwater geologists firm of Robinson and Noble, Inc.

The city currently holds the following water rights:

Cert. No.	Source	Inst. Q.	Annual Quantity
G.W. 6343	Well #1	630 GPM	1,000 1,600 119)Supplemental to existing 645)certificates - total annual withdrawal not to exceed 2600 acre-feet.
G.W. 7031	Well #2	1200 GPM	
G1-22733C	Well #3	300 GPM	
G1-22734C	Well #4	500 GPM	

The City selected a site south of Interstate 90, north of Gilman Road, and east of Issaguah Creek for two new wells to supplement their water supply.

When the two wells were constructed and tested, it was found that each was tapping a different aquifer. A second application is being prepared for the shallow, less productive well. This application represents the deep large production well.

This well was drilled in June 1985 to a completed depth of 412 feet deep. In September, the well was tested at a pumping rate of 1000 which resulted in a drawdown of 128 feet after 24 hours. Prior to starting the pump test, the static water level was recorded at 7.5 feet below the top of the well. Three hours after the pump test, the water level in the well returned to pre-test levels.

Due to the proximity of the large production well to Issaquah Creek which is closed to appropriation of water, significant hydraulic continuity must be considered. However, based on Robinson and Noble's report data, the evidence of a clay and silt aquatard above the water zone of this well thereby isolating it from waters connected with Issaquah Creek, there would be no significant continuity between the well and the creek flows.

The report prepared by Robinson and Noble based on the test results stated that data clearly showed that the well was tapping from an aquifer isolated from above by a silt and clay aquatard.

The firm of Robinson and Noble have recommended that the well be designed to pump at a maximum rate of 1000 gallons per minute. Based on their testing and recommendation, the quantity for this application should reflect the designed capacity of the well for a safe sustained yield.

Since the previous rights held by the City total 2,600 acre-feet per year which is adequate to service a population in excess of 10,000, this application would be considered totally supplemental to the existing rights.

#### Conclusion:

In accordance with Section 90.03 and 90.44 RCW, I find that there is water available for appropriation from the source in question and that the appropriation as recommended above will not impair existing rights or be detrimental to the public welfare. Therefore, permit should issue subject to existing rights and indicated provisions.



#### Recommendation:

A permit should issue for 1000 gallons per minute, 1600 acre-feet per year, supplemental to existing rights from a well for the purpose of municipal supply.

This is a supplemental right to primary ground water certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed 2600 acre-feet per year previously approved on primary rights.

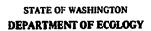
A certificate of water right will not be issued until a final investigation is made.

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.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

REPORT BY:

DATE: 2/3/86



### **PERMIT**

#### TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

	Surface Wat	ter (Issued in amendm	n accordan ents theret	ce with the pro o, and the rule	ovisions of Chapt s and regulations	er 117, Laws of Washin of the Department of E	cology.)	7, and
$\boxtimes$	Ground War	ter (Issued in	n accordana ents theret	ce with the pro	ovisions of Chapt s and regulations	er 263, Laws of Washing of the Department of E	ton for 194 cology.)	5, and
RIORITY DATE		APPLICATION	ON NUMBI	ER	PERMIT NUM	BER	CERTIFIC	ATE NUMBER
April 2. 198	5	G1-24	633		G1-2463	3P		
NAME								
City of Issa	<u>quah</u>			(CITY)		(STATE)		(ZIP CODE)
ADDRESS (STREET)	. Was 10 C	Day 13		Issacua	ah .	Washin	ton	98027-1307
130 E. Sunse	t way IP.C	, BOX IS	0/1	1220ddac	41	**********	,	
The applicant is a permit to appare and to the limit	nronriate the	following	describ	ed public w	which has b vaters of the	een accepted by ti State of Washingt	ie applica on, subjec	nt, hereby granted et to existing rights
			PUB	LIC WATER	TO BE APPRO	PRIATED		
11022	x 412'							
TRIBUTARY OF (IF SUI	RFACE WATERS)		<u> </u>					
MAXIMUM CUBIC FEE	T PER SECOND			GALLONS PER	MINUTE	MAXIMUM AC		RYEAR
							<u> </u>	
QUANTITY, TYPE OF Municipal wa	SE, PERIOD OF	vse v = conti	innous?	v				
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*Supplementa	al to exis	ting rigi	nts					
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APPROXIMATE LO	CATION OF DI	VERSION-W	ITHORAW	AL				
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						Talana a opini ma		LCOLIBITY
LOCATED WITHIN IS	MALLEST LEGAL	SUBDIVISION	)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.	1. W.R.I.A. 8	King
NWLNEL				28	24	6 E	1 0	runia
				RECORDED P	LATTED PROF		71001	
LOT		BLOCK			OF (GIVE NA	ME OF PLAT OR ADD	110N)	
	1 5	GAL DESCE	RIPTION	OF PROPER	TY ON WHIC	H WATER IS TO BE	USED	

Area served by City of Issaquah

#### **DESCRIPTION OF PROPOSED WORKS**

Well 16" X 412' 200 - 250 HP pump

	DEVELOPMENT SCHED	ULE
BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	April 15. 1987(	April 15. 1988 49

#### PROVISIONS

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

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.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

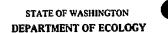
This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.

Given under my hand and the seal of this office at	Redmond,	Washington, this15day
of		

Department of Ecology

OK....

Joan K. Thomas, Regional Manager



### CERTIFICATE OF WATER RIGHT

	endments thereto, and the i	ules and regulations	of the Department of Eco	logy.)			
Ground Water (Iss	ued in accordance with the endments thereto, and the r	provisions of Chapte ules and regulations	r 263, Laws of Washington of the Department of Eco	n for 1949 logy.)	, and		
RIORITY DATE APPLIC	CATION NUMBER	PERMIT NUME	ER C	ERTIFICA	TE NUMBER		
	ORIT OATE			633P G1-24633C			
VIII. 29.1240							
NAME							
ity of Issaquah	(CITY)		(STATE)		(ZIP CODE)		
ADDRESS (STREET) 30 F. Sunset Wav (P.O. Box	• • • • • • • • • • • • • • • • • • • •	ıah.	Washingto	ın	98027-1307		
This is to certify that the herein nan the use of the public waters of the S contained in the Permit issued by the in accordance with the laws of the S of record as shown, but is limited	State of Washington as h he Department of Ecolo State of Washington, an	erein defined, and gy, and that said i id is hereby confir	i under and specificall ight to the use of said med by the Departme	y subject waters hi	to the provisions as been cerfected		
		O BE APPROPRIA					
SOURCE							
Well 16" X 412'							
FRIBUTARY OF (IF SURFACE WATERS)							
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MAXIMUM CUBIC FEET PER SECOND 1000			1600*	1600*			
QUANTITY, TYPE OF USE, PERIOD OF USE							
<u> Municipal water supply - co</u>	ntinuously						
*Supplemental to existing r	iahts						
Odp Venditor							
	LOCATION OF DI	VEDELON/WITHIN	AWAI				
APPROXIMATE LOCATION OF DIVERSIO		VERSION WITTE	Munr				
375 feet south and 600 feet	east of the nor	thwest corner	of Section 28				
373 Teet 300th and 000 1000							
	ISION) SECTION	TOWNSHIP N.	RANGE, IE. OR W.I W.M.	W.R.I.A.	COUNTY		
LOCATED WITHIN (SMALLEST LEGAL SUBDIV	28	24	6 E	8	King		
NW1NE1		D PLATTED PROP					
OT BLOCK			OF PLAT OR ADDITION)				
	ESCRIPTION OF PROF						

Area served by City of Issaquah

#### **PROVISIONS**

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This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond Washington, this..15th...day

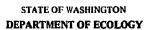
February 19 90

Department of Ecology

OK.

by Aleman A. Auggins, Section Supervisor Water Resources

FOR COUNTY USE ONLY



DEPARTM	ENT OF ECOLOGY	APPLICATION PERMIT
PROG	RESS SHEET	CERTIFICATE
SURFACE WATER	GROUND WATER	OTHER
		TELEPHONE NO

COMPUTER INPUT

	SUR	RFACE WATE	R	GROUN	D WAT	ER	L		
NAME City of Issaqu	ah	<u>-</u>				······································		1	351°-1004
ADDRESS		(CITY)			ISTA			(Z	392-7595 IP CODE)
ASSIGNED TO	Way(P.O. E	bx 1307)	Issa	ıquah	Wa	TELEPHONE N	0.	DATE ASS	98027-1307 BIGNED
ADDRESS		(CITY)			(STA	TE)		(2	IP CODE
APPLICATION NO.	3	PERMIT NO.	C 35.4	633 ₆		CERTIFICATIO	ON NO.	01.1.	33C
DATE AMENDED		DATE CANCE				W.R.I.A.	17.0	700	<u> </u>
<u> </u>		<u> </u>	APPLI	CATION					
DATE APPLICATION RECEIVED April 2, 1985		INITIAL \$10.00 FEE RECEIVED			DATE FEE RECEIVED April 2, 1985				
STATEMENT OF ADDITIONAL EXAMINATION FEE'S		DATE SENT			·····	DATE RECEIV	ED		
DATE RETURNED FOR COMPLETION	OR CORRECTIO	N	,	DATE RECEIVE	D	· • • • • • • • • • • • • • • • • • • •			
			TEMPOR	ARY PERMIT					
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