



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1271
 (503) 986-0900
 www.wrd.state.or.us
 Salem Oregon 97301-1271

Application to Develop
Hydroelectric Use
 As part of an existing certificated water right

Please type or print in dark ink. Prior to submitting an application, the Oregon Water Resources Department (OWRD) recommends applicants consult with the Department's Hydroelectric Staff about the proposed project. If an application is found to be incomplete or inaccurate, it will be returned to the applicant. If any requested information does not apply, please insert "n/a."

1. APPLICANT INFORMATION

Applicants: Attn: Jessica Dorsey
First Last

Organization: City of Hillsboro

Mailing Address: 150 East Main Street, Third Floor, Hillsboro, OR 97123-4028
City State Zip

Phone: 503-615-6579
Home Work Other

*Fax: _____ *E-mail address: _____

**Optional Information*

2. CONDUIT CONTROL

X If the water to be used for the proposed hydroelectric project is delivered by a public entity other than the applicant you must provide a statement from that public entity that it will be able to deliver water as described in this application. -- **Attach the statement. The hydroelectric project is located within the City of Beaverton's municipal water supply system. The attached letter states that the City of Beaverton will deliver the water to the hydroelectric project as described in this application.**

- No
- STOP.** A certificate cannot be issued unless the applicant owns or otherwise controls the water conveyance system.

Hydroelectric Project /1

RECEIVED

JUL 18 2022

OWRD

3. WATER USE

A. Proposed Source and Amount of Water

Provide the certificate number or, if no confirming certificate has been issued, the decree reference, of the existing water right associated with this proposed project:

Water right certificate 81020.

Identify the amount of water you propose to use from each source, for each powerhouse, in cubic feet-per-second (CFS).

(1 cubic foot per second = 448.8 gallons per minute 1 acre-foot = 43,560 cubic feet)

Source	Amount (AF, CFS, GPM)
Barney Reservoir	Up to 6.68 cfs (3,000 gpm)

C. Power Development

The project will utilize 100 (number of feet) of gross head to develop 75.9 (Amount) theoretical horsepower (THP).

THP is calculated by multiplying the quantity of water to be diverted in cubic feet per second by the vertical head in feet and dividing the product by 8.8). The head is the difference in elevation between the intake of the pipeline and the return discharge to the stream.

D. Location

Identify the following points on a copy of the final proof map for the certificate.

- 1) The point of diversion is in the: NE ¼ of the NW ¼ of Section 35, Township 1 South, Range 6 West, W.M.
- 2) The power plant is to be located within the NE ¼ of the NE ¼ of Section 29, Township 1 South, Range 1 West, W.M.
- 3) After passing through the power plant, the water will be discharged to: the City of Beaverton's distribution system.

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

RECEIVED

JUL 18 2022

OWRD

4. WATER MANAGEMENT

How will you monitor your diversion to ensure the volume of water use is within the limits of the water right and that no water is being wasted?

Weir

Meter

Periodic Sampling

Describe measuring devices and the frequency of recording. The use of water for hydroelectric purposes will be monitored using a flow meter on the pipe inside the powerhouse. The meter will be connected to the City of Beaverton's SCADA system and will be continuously monitored.

5. FEDERAL ENERGY REGULATORY COMMISSION (FERC) JURISDICTION

Provide a copy of your FERC declaration of intent or exemption application:
<http://www.ferc.gov/industries/hydropower/gen-info/comp-admin/jur-deter.asp>.

If a FERC exemption is not needed, provide a copy of the Lease of Power Privilege if Project is on a U. S. Bureau of Reclamation facility, or similar document if jurisdiction is from any other federal agency.

Note: Oregon Water Resources Department will not issue a certificate for the proposed project until a FERC determination or exemption is issued. If another federal agency has jurisdiction then the appropriate approval document must be submitted before a certificate is issued by OWRD.

6. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

The City of Hillsboro (City) holds Certificate 81020, which authorizes the use of water from Barney Reservoir for municipal use. The City, as the managing agency for the Barney Reservoir Joint Ownership Commission and the Joint Water Commission, manages the release of the water from Barney Reservoir, and the diversion and treatment of the water at the Spring Hill Pumping Plant. Treated water is then delivered to the other partner agencies, including the City of Beaverton, for use within their municipal water supply systems. A portion of this water is used by the City of Beaverton for municipal use, and will also be used for hydroelectric purposes.

7. MAP REQUIREMENTS

Attach a copy of the final proof map for this certificate that clearly indicates the township, range, section, and quarter-quarter section of the existing diversion point from the stream and add any proposed diversions from the existing canal or pipeline. Indicate the location of the proposed powerhouse. Also, map existing and proposed canals, pipelines and or penstocks that will be part of the hydroelectric use. See the map guidelines sheet for detailed map specifications. **SEE PAGES 7-9.**

See Exhibits A-1, A-2, A-3 and A-4

RECEIVED

JUL 18 2022

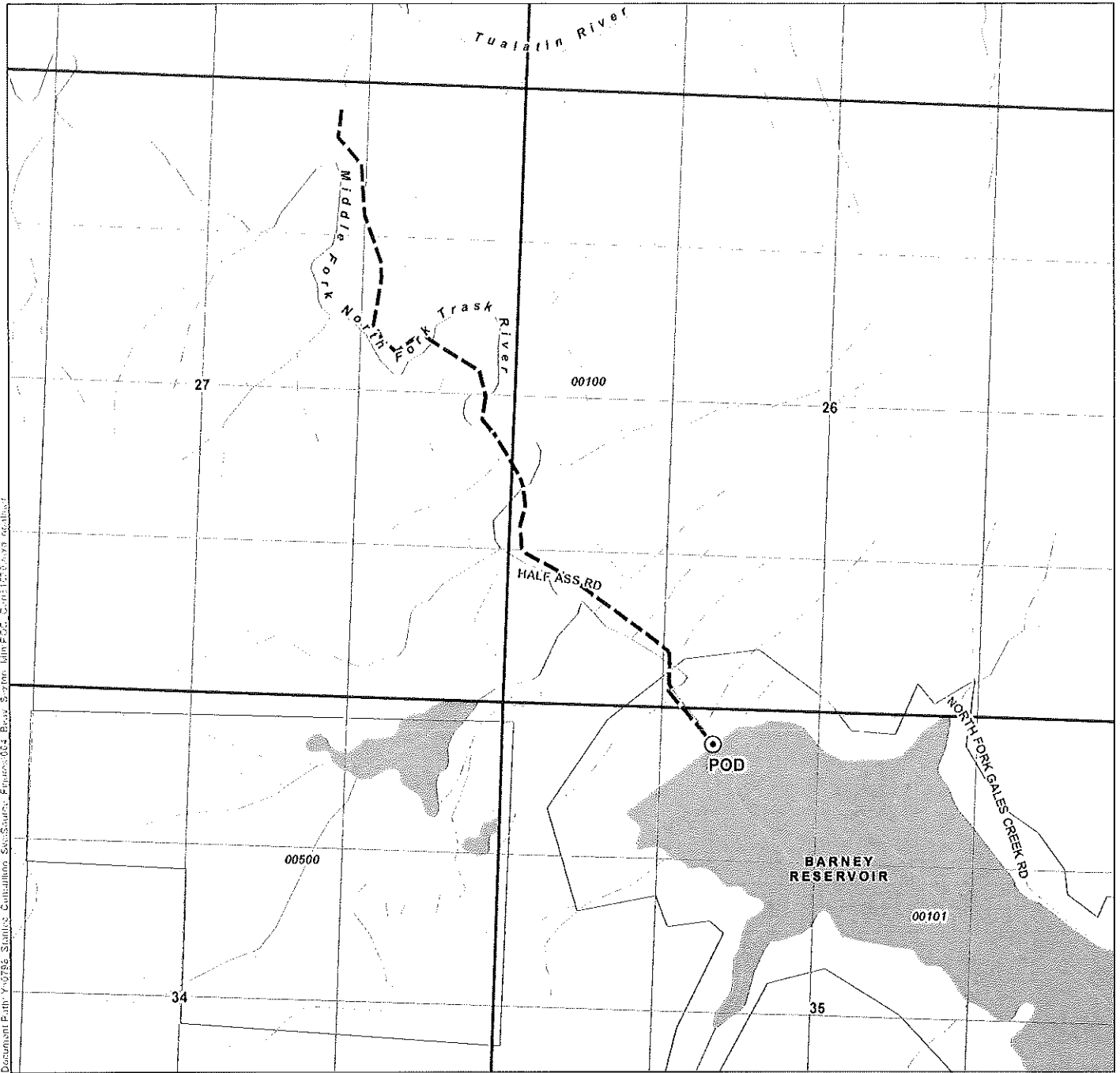
OWRD

RECEIVED

JUL 18 2022







OWRD

Exhibit A-1
Map of Point of Diversion
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro



Document Path: Y:\0786 - Studies - Consultation - SW - Studies - Figures\004 - Blow - 8-27-20 - Main.FIG - Cont11572020.aprx

LEGEND

-  Point of Diversion (POD)
-  Water Conveyance Mainline
-  Tax Lot
-  Major Road
-  Watercourse
-  Waterbody

Point of Diversion for Certificate 81020
Washington County, Oregon
 Township 1 South, Range 6 West (W.M.)

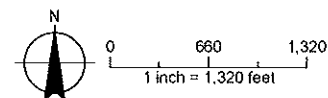
RECEIVED
JUL 18 2022
OWRD

POD LOCATION DESCRIPTION

POD
 Located 305 feet South and 1,790 feet East from the NW corner
 of Section 35, Township 1 South, Range 6 West (W.M.)

DISCLAIMER
 This map was prepared for the purpose of
 identifying the location of a water right only and
 it is not intended to provide legal dimensions
 or location of property ownership lines.

Date: April 13, 2022
 Data Sources: BLM, ESRI, OWRD, USGS

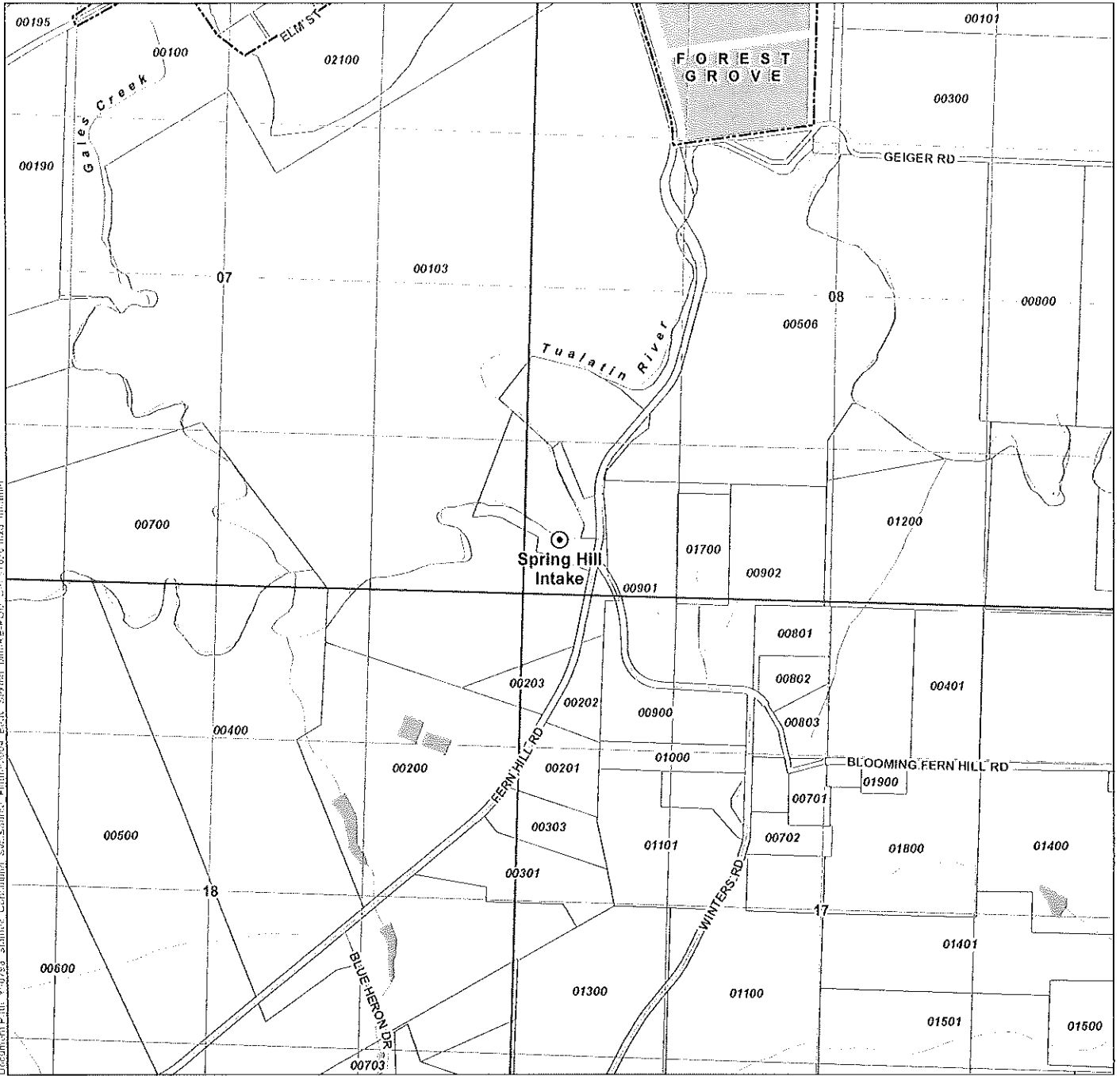


RECEIVED

JUL 18 2022

OWRD

Exhibit A-2
Map of Point of Re-Diversion
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro



- LEGEND**
- Point of Re-Diversion
 - Tax Lot
 - Major Road
 - Watercourse
 - Waterbody

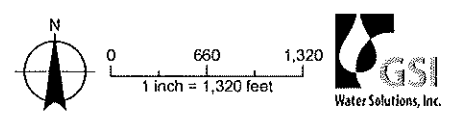
Point of Re-Diversion for Certificate 81020
Washington County, Oregon
 Township 1 South, Range 3 West (W.M.)

RECEIVED
JUL 18 2022
OWRD

LOCATION DESCRIPTION
Spring Hill Intake
 Located 500 feet North and 410 feet East from the SW corner of Section 8, Township 1 South, Range 3 West (W.M.).

DISCLAIMER
 This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

Date: April 13, 2022
 Data Sources: BLM, ESRI, OWRD, USGS



RECEIVED

JUL 18 2022

OWRD

Exhibit A-4
Map of Hydroelectric Facility
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

RECEIVED

JUL 18 2022

OWRD

Exhibit B
Water Right Certificate 81020
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

STATE OF OREGON
COUNTY OF WASHINGTON
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF HILLSBORO
123 W. MAIN STREET
HILLSBORO, OR 97123-3999

confirms the right to use the waters of MIDDLE FORK OF NORTH FORK TRASK RIVER AND BARNEY RESERVOIR CONSTRUCTED UNDER PERMIT NO. R-4890, a tributary of TRASK RIVER, for MUNICIPAL USE.

This right was perfected under Permit 32139. The date of priority is JUNE 26, 1958. The amount of water to which this right is entitled is limited to an amount actually beneficially used and shall not exceed 38.7 CUBIC FEET PER SECOND, or its equivalent in case of rotation, measured at the point of diversion from the source.

The point of diversion is located as follows:

NE 1/4 NW 1/4, SECTION 35, TOWNSHIP 1 SOUTH, RANGE 6 WEST, W.M.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

RECEIVED

JUL 18 2022

OWRD

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review of the order must be filed within the 60 days of the date of service.

32421.SB

Certificate Number 81020

A description of the place of use to which this right is appurtenant is as follows:

S 1/2 N 1/2 SW 1/4 N 1/2 SE 1/4 Section 17	S 1/2 S 1/2 Section 19	S 1/2 NW 1/4 S 1/2 Section 32
W 1/2 NE 1/4 SE 1/4 NE 1/4 E 1/2 NW 1/4 S 1/2 Section 18	NE 1/4 SE 1/4 S 1/2 S 1/2 Section 20	SW 1/4 NE 1/4 S 1/2 NW 1/4 S 1/2 Section 33
All Sections 19 and 20	NE 1/4 NE 1/4 NW 1/4 SW 1/4 S 1/2 S 1/2 Section 21	S 1/2 N 1/2 S 1/2 Section 34
NW 1/4 S 1/2 Section 21	All Sections 22 and 23	S 1/2 N 1/2 S 1/2 Section 35
S 1/2 Section 22	S 1/2 NE 1/4 W 1/2 SE 1/4 Section 24	NE 1/4 NE 1/4 NW 1/4 S 1/2 NW 1/4 S 1/2 Section 36
N 1/2 NW 1/4 SW 1/4 NW 1/4 Section 26	All Sections 25 through 36 Township 1 North, Range 2 West, W.M.	Township 1 North, Range 3 West, W.M.
All Sections 27 through 35 Township 1 North, Range 1 West, W.M.	SE 1/4 SE 1/4 Section 24	SE 1/4 NE 1/4 E 1/2 SE 1/4 Section 7
S 1/2 N 1/2 S 1/2 Section 14	E 1/2 E 1/2 W 1/2 NW 1/4 NW 1/4 Section 25	SW 1/4 NW 1/4 SW 1/4
E 1/2 NE 1/4 S 1/2 SW 1/4 NW 1/4 SW 1/4 E 1/2 SE 1/4 SW 1/4 SE 1/4 Section 15	S 1/2 SW 1/4 Section 30	SW 1/4 SE 1/4 Section 8
E 1/2 SE 1/4 Section 16	S 1/2 NE 1/4 W 1/2 SE 1/4 Section 31	NW 1/4 SW 1/4 S 1/2 SW 1/4 Section 16
	SE 1/4 NE 1/4	NW 1/4 NE 1/4 S 1/2 NE 1/4 NW 1/4

32421.SB

Certificate Number 81020

RECEIVED

JUL 18 2022

OWRD

NE 1/4 SW 1/4
SE 1/4
Section 17

NE 1/4
Section 18

NE 1/4 NE 1/4
Section 20

NW 1/4
N 1/2 SW 1/4
SE 1/4 SW 1/4
NW 1/4 SE 1/4
S 1/2 SE 1/4
Section 21

W 1/2 SW 1/4
S 1/2 SE 1/4
Section 25

S 1/2
Section 26

NW 1/4 NW 1/4
S 1/2 NW 1/4
S 1/2
Section 27

NE 1/4
N 1/2 SE 1/4
Section 28

NE 1/4
N 1/2 NW 1/4
NE 1/4 SE 1/4
Section 35

All
Section 36
Township 1 North,
Range 4 West, W.M.

All
Sections 1 through
9

N 1/2
N 1/2 S 1/2
S 1/2 SW 1/4
Section 10

NW 1/4 NE 1/4
NW 1/4
Section 11

SW 1/4 NE 1/4
S 1/2 NW 1/4
SW 1/4
W 1/2 SE 1/4
Section 14

S 1/2 NE 1/4
W 1/2
SE 1/4
Section 15

All
Sections 16 through
22

NW 1/4 NE 1/4
S 1/2 NE 1/4
W 1/2
SE 1/4
Section 23

E 1/2
SE 1/4 NW 1/4
S 1/2
Section 24

All
Sections 25 through
30

E 1/2
E 1/2 NW 1/4
NE 1/4 SW 1/4
Section 31

All
Sections 32 through
36
Township 1 South,
Range 1 West, W.M.

All
Sections 1 through 6

N 1/2
E 1/2 SE 1/4
Section 7

All
Sections 8 through
14

NE 1/4
N 1/2 NW 1/4
Section 15

NE 1/4
N 1/2 NW 1/4
SE 1/4 NW 1/4
Section 16

N 1/2 NE 1/4
Section 17

All
Sections 23, 24 and
25

E 1/2 NE 1/4
Section 26
Township 1 South,
Range 2 West, W.M.

N 1/2
NE 1/4 SW 1/4
N 1/2 SE 1/4
Section 1

N 1/2
Section 2

N 1/2
Section 3

N 1/2
N 1/2 SW 1/4
N 1/2 SE 1/4
SW 1/4 SE 1/4
Section 4

32421.SB

Certificate Number 81020

RECEIVED

JUL 18 2022

OWRD

N 1/2
SW 1/4
N 1/2 SE 1/4
SW 1/4 SE 1/4
Section 5

N 1/2
SW 1/4
N 1/2 SE 1/4
SW 1/4 SE 1/4
Section 6

N 1/2 NW 1/4
Section 7

N 1/2 NW 1/4
Section 8

W 1/2
SE 1/4
Section 31

SW 1/4
Section 32
Township 1 South,
Range 3 West, W.M.

N 1/2 NE 1/4
SE 1/4 NE 1/4
S 1/2 SW 1/4
NE 1/4 SE 1/4
S 1/2 SE 1/4
Section 1

SE 1/4 SE 1/4
Section 2

All
Sections 12 and 13

SE 1/4
Section 14

W 1/2 NE 1/4
SE 1/4 NW 1/4

E 1/2 SW 1/4
W 1/2 SE 1/4
SE 1/4 SE 1/4
Section 21

SW 1/4 SW 1/4
SE 1/4 SE 1/4
Section 22

All
Section 23

N 1/2
SW 1/4
Section 26

All
Section 27

NE 1/4
E 1/2 SE 1/4
Section 28

S 1/2 S 1/2
Section 30

NE 1/4
N 1/2 NW 1/4
Section 31

SW 1/4 NE 1/4
NW 1/4 NW 1/4
S 1/2 NW 1/4
N 1/2 SW 1/4
SE 1/4 SW 1/4
SE 1/4
Section 32

E 1/2
E 1/2 NW 1/4
SW 1/4 NW 1/4
SW 1/4
Section 33

All
Section 34

W 1/2

SE 1/4
Section 35

NE 1/4 NE 1/4
SE 1/4
Section 36
Township 1 South,
Range 4 West, W.M.

NE 1/4 SW 1/4
N 1/2 SE 1/4
Section 21

SW 1/4
NW 1/4 SE 1/4
S 1/2 SE 1/4
Section 22

S 1/2 S 1/2
Section 25

SW 1/4 NE 1/4
NW 1/4
NE 1/4 SW 1/4
SE 1/4
Section 26

N 1/2 NE 1/4
Section 27

NE 1/4 NE 1/4
Section 35

N 1/2 N 1/2
Section 36
Township 1 South,
Range 5 West, W.M.

All
Sections 1 through 5

S 1/2 NE 1/4
SE 1/4
Section 6

E 1/2 NE 1/4

32421.SB

RECEIVED

Certificate Number 81020

JUL 18 2022

OWRD

Section 7

N 1/2 NE 1/4
SW 1/4 NE 1/4
W 1/2

All
Sections 8 through
12

Section 22

N 1/2
SW 1/4
SW 1/4 SE 1/4
Section 13

W 1/2 NW 1/4
Section 30
Township 2 South,
Range 3 West, W.M.

RECEIVED

JUL 18 2022

OWRD

N 1/2
N 1/2 SE 1/4
Section 14

All
Sections 1, 2 and 3

E 1/2
E 1/2 W 1/2
Section 4

N 1/2
N 1/2 SW 1/4
Section 15

NE 1/4
E 1/2 NW 1/4
E 1/2 SE 1/4
Section 9

E 1/2
N 1/2 NW 1/4
SE 1/4 NW 1/4
E 1/2 SW 1/4
Section 16
Township 2 South,
Range 1 West, W.M.

N 1/2
SW 1/4
Section 10

All
Sections 2 through
9

N 1/2
E 1/2 SW 1/4
SE 1/4
Section 11

N 1/2 NE 1/4
SE 1/4 NE 1/4
W 1/2 NW 1/4
SW 1/4
NE 1/4 SE 1/4
Section 10

All
Sections 12 and 13

NE 1/4
E 1/2 NW 1/4
S 1/2 SE 1/4
Section 14

N 1/2
Section 11

S 1/2 SE 1/4
Section 24

NW 1/4
S 1/2
Section 15

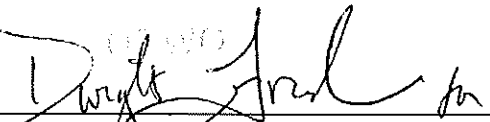
NE 1/4
Section 25
Township 2 South,
Range 4 West, W.M.

All
Sections 16 through
21

Water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

The use confirmed herein may be made only at times when sufficient water is available to satisfy all prior rights, including rights for maintaining instream flows.

Issued December 16, 2004.


Phillip C. Ward, Director
Water Resources Department

RECEIVED

JUL 18 2022

OWRD

Recorded in State Record of Water Right Certificates Number 81020.

32421.SB

RECEIVED

JUL 18 2022

OWRD

Exhibit C
Description of Project from Diversion to Discharge
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

Description of the Proposed Project

Stored water will be released from Barney Reservoir into the Tualatin River. The water will be diverted from the Tualatin River at the Joint Water Commission's Spring Hill Pumping Plant. The diverted water will be treated at the JWC water treatment plant and pumped to the two 20-million-gallon (MG) Fernhill Reservoirs. Water from the Fernhill Reservoirs is then delivered to the City of Beaverton through the 48-inch diameter JWC South Transmission Line (STL), which conveys water for approximately 13.9 miles, until it transitions to the City of Beaverton's 30-inch, which fills the City of Beaverton's 15 MG and 5 MG Sexton Mountain Reservoirs.

The hydropower project will be installed at the Sexton Mountain 550 Pump Station located on the same parcel as the 15 MG Sexton Mountain Reservoir. Beginning in 2023, when the project is expected to be constructed, the average monthly water flowrate through the Sexton Mountain site will be 12.6 cfs. With new aquifer storage and recovery (ASR) wells and expanded water distribution for new development, the site could see an average monthly flowrate up to 26.2 cfs by year 2040. The hydropower turbine will use up to 11.1 cfs of this increasing flowrate. (As further described below, the maximum rate will be used outside of the peak demand season.) At the time of installation in 2023, space will be left available for an additional future turbine. If another turbine is added in the future, another hydroelectric water right application would be filed.

During the summer, hydropower will be generated as part of water use for municipal purposes under Certificate 81020. The maximum rate of use under this certificate will be 6.68 cfs. Outside of this peak demand period, hydropower will be generated as part of water use under the City of Beaverton's Certificate 85914. (The City of Beaverton filed PC-913 for the use of up to 11.1 cfs for hydroelectric use as part of water use under Certificate 85914. Use under this water right typically occurs from November through May.)

After flowing through the hydropower project, the water will be returned to the City of Beaverton's transmission system for distribution to its residential and commercial customers. The resulting wastewater after the water is used by City of Beaverton customers enters the sanitary sewer system, which is managed by Clean Water Services (CWS). CWS treats the wastewater and returns it to the Tualatin River.

RECEIVED

JUL 18 2022

OWRD

RECEIVED

JUL 18 2022

OWRD

Exhibit D
Agreement with ODFW regarding fish screening / bypass
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro



Oregon

Kate Brown, Governor

Department of Fish and Wildlife

North Willamette Watershed District

17330 SE Evelyn Street

Clackamas, OR 97015-9514

(971) 673-6000

(971) 673-6070

odfw.com

RECEIVED

JUL 18 2022

OWRD



July 13, 2022

Jessica Dorsey
City of Hillsboro
150 East Main Street, Third Floor
Hillsboro, Oregon 97123

Subject: City of Hillsboro Sexton Mountain Pump Station In-Conduit Hydropower Facility

Dear Ms. Dorsey:

The Oregon Department of Fish and Wildlife (ODFW) has reviewed the application and exhibits GSI Water Solutions Inc. provided June 6, 2022, by email for the City of Hillsboro Sexton Mountain Pump Station In-Conduit Hydropower Facility. The Application requests to use stored water from Barney Reservoir to generate power in the City of Beaverton's Sexton Mountain Pump Station In-Conduit Hydropower Facility within its municipal water supply system. The power would be generated during the summer months and the underlying water right is the City of Hillsboro's right for use of stored water from Barney Reservoir. Our review of the application and exhibits has produced the following response found in this letter.

Project Description

Stored water will be released from Barney Reservoir into the Tualatin River. The water will be diverted from the Tualatin River at the Joint Water Commission's (JWC) Spring Hill Pumping Plant. The diverted water will be treated at the JWC water treatment plant and pumped to the two 20-million-gallon (MG) Fernhill Reservoirs. Water from the Fernhill Reservoirs is then delivered to the City of Beaverton through the 48-inch diameter JWC South Transmission Line (STL), which conveys water for approximately 13.9 miles, until it transitions to the City of Beaverton's 30-inch, which fills the City of Beaverton's 15 MG and 5 MG Sexton Mountain Reservoirs.

The hydropower project will be installed at the Sexton Mountain 550 Pump Station located on the same parcel as the 15 MG Sexton Mountain Reservoir. Beginning in 2023, when the project is expected to be constructed, the average monthly water flowrate through the Sexton Mountain site will be 12.6 cfs. With new aquifer storage and recovery (ASR) wells and expanded water distribution for new development, the site could see an average monthly flowrate up to 26.2 cfs by year 2040. The hydropower turbine will use up to 11.1 cfs of this increasing flowrate. At the time of installation in 2023, space will be left available for an additional future turbine. If another turbine is added in the future, another hydroelectric water right application would be filed.

During the summer, hydropower will be generated as part of water use for municipal purposes under Certificate 81020. The maximum rate of use under this certificate will be 6.68 cfs. Outside of this peak demand period, hydropower will be generated as part of water use under the City of Beaverton's Certificate 85914. (The City of Beaverton filed PC-913 for the use of up to 11.1 cfs for hydroelectric use as part of water use under Certificate 85914. Use under this water right typically occurs from November through May.)

After flowing through the hydropower project, the water will be returned to the City of Beaverton's transmission system for distribution to its residential and commercial customers. The resulting wastewater after the water is used by City of Beaverton customers enters the sanitary sewer system, which is managed by Clean Water Services (CWS). CWS treats the wastewater and returns it to the Tualatin River.

Statutory Requirements

ODFW understands that the city will be applying to the Oregon Water Resource Department under Oregon Revised Statute (ORS) 543.765 for a certificate to use water for hydroelectric purposes within its municipal water distribution line. Under ORS 543.765(5)(a) a certificate issued under this section must contain the following conditions: fish screens, bypass devices and fish passage as required by the State Department of Fish and Wildlife.

Fish Screens and/or Bypass Devices

Water diverted to operate the facility will be delivered through the JWC Spring Hill Pumping Intake Plant. The JWC fish screen, water treatment plant, and existing municipal water distribution lines exclude the entry of fish into the conduit where the proposed turbine will be located. Because fish do not have access to and are not found within the existing municipal water distribution system under current conditions and will not have access after the hydropower facility is installed, ODFW does not find a nexus between fish entrainment and operation of the hydropower facility. Therefore, ODFW will not require fish screens or bypass devices under ORS 543.765(5)(a) in this proceeding.

RECEIVED

JUL 18 2022

OWRD

Fish Passage

Authorization of the project constitutes a fundamental change in permit status per ORS 509.585 that invokes Oregon Fish Passage Policy. The JWC Spring Hill Pumping Intake Plant relies on a water source diverted by an artificial obstruction (ORS 509.580(1)). ODFW has concluded that this small elevation rock weir is a partial barrier to native migratory fish migration, from early summer to early fall, when flows drop. To address the requirements under ORS 543.765(5)(a) the city can choose to (1) pay an annual fee to the Oregon Water Resources Department (2) provide full fish passage at the rock weir or (3) apply for a fish passage waiver or exemption from the Oregon Fish and Wildlife Commission. The annual fee would be set forth in the water right or established by order of the Oregon Water Resource Director and adjusted annually for inflation according to the rules established by the Oregon Water Resources Department.

Please feel free to contact me at 503-947-6090 if you have any questions about the fee, how to provide fish passage, or the fish passage waiver or exemption process.

Thank you for the opportunity for review.

Sincerely,



John Zauner
Hydropower Program Leader

RECEIVED

JUL 18 2022

OWRD

RECEIVED

JUL 18 2022

OWRD

Exhibit E
Evidence of Water Use
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

Water Use Report Based on Water Right



Cert:81020 OR *

CITY OF HILLSBORO 123 W MAIN ST HILLSBORO, OR 97123-3999

Records per page: 10 [View All](#)

Acre feet (AF) of Water Used

Water Year	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2021	11574	BARNEY RES USE	1406.00	221.80	0.00	0.00	0.00	0.00	0.00	1234.70	2102.70	2266.70	3095.20	2723.80	13050.90	
2020	11574	BARNEY RES USE	2194.62	993.49	378.34	0.00	0.00	0.00	0.00	249.12	1494.71	2273.42	3095.21	2673.80	13352.71	
2019	11574	BARNEY RES USE	2432.02	810.87	0.00	0.00	0.00	0.00	0.00	0.00	1774.59	2165.64	1786.90	2394.11	11364.13	
2018	11574	BARNEY RES USE	1169.00	0.00	0.00	0.00	0.00	0.00	0.00	159.00	1686.00	2308.00	3248.00	3094.00	11664.00	
2017	11574	BARNEY RES USE	952.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	239.00	2198.00	2466.00	3235.00	9090.00	
2016	11574	BARNEY RES USE	1786.00	0.00	0.00	0.00	0.00	0.00	0.00	916.00	1965.00	2044.00	2284.00	2914.00	11909.00	
2015	11574	BARNEY RES USE	1389.00	0.00	0.00	0.00	0.00	0.00	0.00	1218.00	1901.00	2455.00	2714.00	3228.00	12905.00	
2014	11574	BARNEY RES USE	611.00	139.00	0.00	0.00	0.00	0.00	0.00	0.00	776.00	1529.00	1845.00	2461.00	7361.00	
2013	11574	BARNEY RES USE	1698.00	0.00	0.00	0.00	0.00	0.00	0.00	913.00	790.00	1397.00	1952.00	2103.00	8853.00	
2012	11574	BARNEY RES USE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.08	

1 2 3

*The water year is named for the calendar year in which it ends. Example: the 2018 water year begins Oct. 1, 2017 and ends Sep. 30, 2018.

- The Water Resources Department makes reasonable efforts to screen the data for quality control; however, the Department cannot accept responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send notifications to owrd.waterusereporting@water.oregon.gov or call 971-345-7489.
- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
 - For diverted rights, the total amount diverted during the month;
 - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

RECEIVED

JUL 18 2022

OWRD

RECEIVED

JUL 18 2022

OWRD

Exhibit F
Delivery of Water by Public Entity
Application to Develop Hydroelectric Use as part of Existing Certificates –
City of Hillsboro



**Engineering Division
Public Works Department**

June 7, 2022

Craig Kohanek
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271

Dear Mr. Kohanek:

As a member of the Joint Water Commission (JWC), the City of Beaverton (Beaverton) uses water for municipal water supply under water rights held by other members of the JWC, including the City of Hillsboro's (Hillsboro) Certificate 81020. At the request of Beaverton, Hillsboro is filing this *Application to Develop Hydroelectric Use as part of an existing certificated water right* for its Certificate 81020. Water under the certificate will be conveyed to Beaverton's water system during summer months for municipal water supply, and will be used to generate hydropower at a facility within Beaverton's municipal water supply system. Beaverton will be able to deliver water for the proposed hydroelectric project as described in this application.

Please contact me if you have any questions at ghunsaker@beavertonoregon.gov or by telephone at 503-350-3658.

Geoff Hunsaker
Digitally signed by Geoff Hunsaker
DN: C=US,
E=ghunsaker@beavertonoregon.gov,
O=City of Beaverton, OU=Public Works -
Engineering, CN=Geoff Hunsaker
Date: 2022.06.07 20:37:10-0700

Geoff Hunsaker, PE
City Engineer | Public Works Department
City of Beaverton

RECEIVED

JUL 18 2022

OWRD

RECEIVED

JUL 18 2022

OWRD

Exhibit G
Land Use Information Form
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is **NOT** required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and **all** of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; **and**
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

Land Use Information Form



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900
 www.wrd.state.or.us

Applicant(s): City of Hillsboro, Attention: Jessica Dorsey

Mailing Address: 150 East Main Street, Third Floor

City: Hillsboro State: OR Zip Code: 97123 Daytime Phone: 503-615-6579

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
<u>I South</u>	<u>I West</u>	<u>29</u>	<u>NE NE</u>	<u>9701</u>		<input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>hydroelectric</u>

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

City of Beaverton

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water Water Right Transfer Permit Amendment or Ground Water Registration Modification
 Limited Water Use License Allocation of Conserved Water Exchange of Water

Source of water: Reservoir/Pond Ground Water Surface Water (name) Barney Reservoir

Estimated quantity of water needed: 6.68 cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 Municipal Quasi-Municipal Instream Other Hydropower

Briefly describe:

The City of Hillsboro is seeking a water right to authorize the generation of hydroelectric power as part of the existing use of water under its Certificate 81020 for municipal use within the City of Beaverton's water system.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

RECEIVED
 JUL 18 2022
 OWRD

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.


Please check the appropriate box below and provide the requested information

Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):

Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
Conditional Use	40.15.15.C.1-8	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
Design Review (Type 2)	40.20.15.3.C.1-9	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.



JUL 18 2022

OWRD

Name: Jana Fox Title: Current Planning Manager

Signature: Jana Fox Digital Signature by Jana Fox, DN: cn=Jana Fox, o=City of Beaverton, ou=City of Beaverton, ou=Planning Division, cn=Jana Fox, email=jana.fox@beaverton.gov Phone: 503.523.8530 Date: 5/20/2022

Government Entity: City of Beaverton

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

RECEIVED

JUL 18 2022

OWRD

Exhibit H
FERC Exemption
Application to Develop Hydroelectric Use as part of Existing Certificate –
City of Hillsboro

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

RECEIVED

JUL 18 2022

OFFICE OF ENERGY PROJECTS

OWRD

Docket No. CD22-2-000 – Oregon
Sexton Mountain Pump Station
Hydroelectric Project
City of Beaverton, Oregon

VIA FERC Service

February 2, 2022

Mr. Ronan Igloria
GSI Water Solutions, Inc.
55 SW Yamhill St., Suite 300
Portland, OR 97204

Subject: Notification that the Sexton Mountain Pump Station Hydroelectric Project
Meets the Qualifying Conduit Hydropower Facility Criteria

Dear Mr. Igloria:

On December 7, 2021, as supplemented on December 15, 2021, the City of Beaverton, Oregon, filed a notice of intent pursuant to section 30(a) of the Federal Power Act (FPA), 16 U.S.C. § 823a (2018), to construct a qualifying conduit hydropower facility, the Sexton Mountain Pump Station Hydroelectric Project, that would be located along an existing 30-inch pipeline adjacent to the Sexton Mountain Pumping Station in the City of Beaverton, Washington County, Oregon.

On December 16, 2021, Commission staff issued a public notice that preliminarily determined the project met the statutory criteria for a qualifying conduit hydropower facility, and thus was not required to be licensed under Part I of the FPA. The notice established a 30-day period for entities to contest whether the project met the criteria. On January 13, 2022, the Oregon Department of Fish and Wildlife filed a notice of intervention without contesting the proposed project's qualifications or providing substantive comments.¹ No other interventions or comments were filed. Accordingly, by operation of FPA section 30(a), the Sexton Mountain Pump Station Hydroelectric Project is deemed to meet the qualifying conduit hydropower facility criteria, and is not required to be licensed under Part I of the FPA. Qualifying conduit hydropower facilities remain subject to other applicable federal, state, and local laws and regulations.

¹ Under Rule 214(a)(2) of the Commission's Rules of Practice and Procedure, this entity became a party to the proceeding upon the filing of its intervention. 18 C.F.R. § 385.214(a)(2) (2021).

If you have any questions, please contact Christopher Chaney at (202) 502-6778
or Christopher.Chaney@ferc.gov.

Sincerely,

A handwritten signature in black ink that reads "Kelly Houff". The signature is written in a cursive, flowing style.

Kelly Houff
Chief, Engineering Resources Branch
Division of Hydropower Administration
and Compliance



Water Solutions, Inc.

TRANSMITTAL

To: Craig Kohanek, OWRD
Address: 725 Summer St NE Suite A
From: GSI Water Solutions, Inc.
Attachments: See below
Date: July 14, 2022

RECEIVED

JUL 18 2022

OWRD

Date	Number of Copies	Description
7/14/22	1	Application to Develop Hydroelectric Use