

**Application for
Extension of Time
for Municipal and Quasi-Municipal
Water Use Permits**



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

Make use of this form, *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, only if the permit uses the word "Municipal" or "Quasi-municipal" in the description of the purpose or use to which water is to be applied.

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

A separate extension application must be submitted for each permit as per OAR 690-315-0070(2). This page, with an original signature by the permit holder of record, must accompany the extension of time application. *This application and a summary of review criteria and procedures that are generally applicable to this application are available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>*

I, City of Independence

Gerald Fisher

NAME OF PERMIT HOLDER [OAR 690-315-0070(1) and (3)(a)]

NAME OF CONTACT

PO Box 7

Independence

OR

97351

ADDRESS

CITY

STATE

ZIP

503-837-1190

gfisher@ci.independence.or.us

PHONE

E-MAIL ADDRESS

the permit holder of:

Application Number S-86398

Permit Number S-54331

[OAR 690-315-0070(3)(b)]

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do hereby request that the time in which to:

complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on August 17, 2026, be extended to October 1, 2069,¹

and/or the time in which to:

apply water to full beneficial use under the terms and conditions of the permit, which time now expires on August 17, 2026, be extended to October 1, 2069.²

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

[Signature]
Signature

4/9/2026
Date

¹ The Application must demonstrate that the water system construction will be complete within the time being requested.
² The Application must demonstrate that full beneficial use can be made within the time requested.

[OAR 690-315-0070(3)]

1. **Submit the appropriate extension of time fee (\$7801,170), as specified under ORS 536.050.**

If the extension application fee has already been paid, please provide indicate why and when it was paid. The required fee of \$1,170 is enclosed.

[OAR 690-315-0070(3)(c)]

2. **For Quasi-Municipal water use permit holders, provide evidence of the actions taken to begin actual construction on the project if required under the applicable statute.** All Quasi-Municipal permits issued prior to October 23, 1999, are generally required to begin actual construction within one (1) year. N/A

Begin Date: _____. **Construction of** _____ **began.** N/A
(month/year) (details)

[OAR 690-315-0070(3)(d)]

3. **For Municipal water use permits issued on or after June 29, 2005, evidence of the actions taken to begin actual construction on the project.**

Begin Date: prior to August 17, 2006. **Construction of** the municipal water supply system **began.**
(month/year) (details)

The City's municipal water supply system had been constructed as of the date of permit issuance, as demonstrated by the water system schematic that was included in the permit application. In addition, the City has purchased the property where the new intake and treatment facilities will be located, removed trees and vegetation necessary for site access during design, upgraded existing driveways, replaced gates, and completed a topographic survey.

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[OAR 690-315-0070(3)(e) and OAR 690-315-0070(3)(i)]

4. Provide a description of financial expenditures and evidence of actions taken to develop the water right permit within the permitted time period and, if applicable, within the time period of the most recent extension granted. *Present the list in chronological order in Chart-I.*

CHART-I

INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List work/actions done before the permitted was issued – e.g. Well drilled.</i>	COST
On-going	Construction and maintenance of the City’s distribution system.	Cost included in cost below
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED DURING PERMITTED TIME PERIOD (after permit was issued and prior to permit “C-date”) <i>List work/actions done during the permitted time period.</i>	COST
8/17/2006	Date the permit was signed - find date above signature on last page of permit.	
On-going	Construction and maintenance of the City’s distribution system.	Est. \$8.9 million
2015-2016	The required WMCP was submitted to OWRD on April 24, 2015 and was approved in September 15, 2016.	Est. \$20,000
10/6/2021	WMCP Progress Report submitted	Est. \$1,000
2022-2026	Study for location of intake and treatment facilities	Approx. \$670,000
2025	Property acquisition	Approx. \$400,000
2025-2026	Site preparation	Approx. \$625,000
2024	Updated WMCP approved June 27, 2024, and an order on reconsideration modifying approval was issued Jan. 9, 2025	\$22,000
8/17/2026	Date the permit specified “Actual Construction Work” shall begin (“A-Date”) - not all permits contain this date.	
8/17/2026	Date the permit specified complete application of water to the use shall be made (“C-Date”) - all permits contain this date.	
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED AFTER PERMIT “C-Date” and PRIOR TO THE MOST RECENT EXTENSION OF TIME REQUEST <i>For the 1st Application for Extension of Time: List work/actions done after the permit “C-date” up to the date of this extension request. For Other than the 1st Application for Extension of Time: List any work/actions done after the permit C-Date but prior to the most recent extension.</i>	COST
	N/A	
Total Cost to Date		Est. \$10.6 Million

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[OAR 690-315-0070(3)(f)]

5. Provide evidence of compliance with conditions contained in the original permit, in any previous extension(s), and/or in any permit amendments (Chart II), or the reason the condition was not satisfied (Chart III).

- 5-A) Describe how each condition has been complied with. Include conditions contained in the original permit (and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time). Include the date when the condition was satisfied.

CHART-II

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
Original Permit		
2	2014 to Present	Annual water use reporting
3	4/24/2015	WMCP submitted to OWRD
6	2006-2026	The city commenced construction of the water distribution system, but is requesting additional time to complete construction.

- 5-B) If applicable conditions have NOT complied with all, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-III

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
Original Permit		
1	Approx. 2035	The intake has not yet been constructed. A totalizing flow meter will be installed once an intake is constructed and before water use begins
4	Approx. 2035	If riparian area is disturbed during construction of a new intake, the City will restore the area
5	Approx. 2035	The intake has not yet been constructed. A fish screen and by-pass devices will be installed, if required by ODFW, after a new intake is constructed.
7	Approx. 2069	The permit has not yet been put to full beneficial use. A claim of beneficial use will be submitted within one year of complete application of water to beneficial municipal use

[OAR 690-315-0070(3)(g)]

6. Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit. Report water use as of June 29, 2005, or the C-Date of the permit (whichever is later).

6-A) For Surface Water Permit Extensions:

Maximum instantaneous rate (as of June 29, 2005, or C-date (whichever is later)) = 0 cfs

6-B) For Ground Water Permit Extensions: N/A

CHART-IV

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED					If yes, provide the rate used from this well under each water right. (Typically the total of all uses from a single well will not exceed the well's pumping capacity.)	
			Well Log Number E.g. MULT 60493	Well Tag Number E.g. # 40151 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See below)	Maximum instantaneous rate used by June 29, 2005, or C-date (whichever is later) -- from this well -- under this permit only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	Permit, Certificate, or Transfer No.	Rate (CFS or GPM)
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Total instantaneous rate from all wells utilized under this permit used as of June 29, 2005, or C-date (whichever is later)									

6-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed with OWRD? Yes No N/A

If a Permit Amendment Application has been filed: Transfer No. T- N/A

[OAR 690-315-0070(3)(h)]

7. Provide an estimate of the current population served under this permit and a description of the methodology(ies) used to make the estimate.

Current Population: 10,638 as of Year: 2025

Methodology used to estimate current population served:

The City relies on certified population estimates produced by Portland State University's Population Research Center. The certified 2025 population estimate for the City of Independence is 10,638 (prepared as of July 1, 2025).

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[OAR 690-315-0070(3)(p)]

8. Report the current peak water demand of the current population served, and a description of the methodology(ies) used to make the estimate.

Current Peak Water Demand: 3.21 cfs as of Year: 2023

Methodology used to estimate current peak demand:

Based on production data, the City's peak day demand to date was 2.078 mgd or 3.21 cfs in August 2023.

[OAR 690-315-0070(3)(k)]

9. Provide a summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if any), relating to the project that have significantly delayed completion of construction or perfection of the right.

Full beneficial use of water under the permit has been delayed by both the City's demand for water under the permit, and the significant effort and funding required to site, design, and construct the diversion and treatment facilities.

[OAR 690-315-0070(3)(l)]

- 10-A. Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use. The Application must demonstrate that the full rate authorized by the permit can be put to beneficial use within the time being requested.

In developing your estimated demand projections for the permit being extended, you should include the following items:

a) Inventory of Water Rights Held

See Attachment B for water rights table.

b) Water Supply Contracts and/or Agreements

List any water supply contracts or agreements for water that will be supplied by the permit holder to other entities.

The City maintains a bi-directional interconnection with the City of Monmouth to temporarily provide water in the event of a water supply shortage, and the City has an Emergency Water Agreement with Monmouth. The agreement was signed January 19, 2010, and allows either city to supply water to the other during emergency situations when it will not hinder or harm the water delivery of the municipality supplying the water. Since this agreement provides solely for water sharing during an emergency, the connection with the City of Monmouth is not considered in this application for an extension of time.

List any water supply contracts or agreements for water that will be supplied from other entities that the permit holder will depend on to meet its own current or anticipated future water needs.

See discussion above regarding the City's Emergency Water Agreement with Monmouth.

c) Projected Population

Identify the projected population growth rate. The population projection must be extended out, at a minimum, to the year requested for complete application of water. Describe the methodology used to create the population projections such as historical growth rates or any factors affecting growth trends.

Population Growth Rate: The AAGRs used for the population projection range from 1.99% to 2.26%

Projected Population: 30,091 as of Year: 2069

Methodology used to estimate projected population and population growth rate:

As described in the City's 2021 WMCP, it has projected population growth using forecasted growth rates from the Oregon Population Forecast Program (OPFP) report for Polk County. According to this 2021 report, the average annual growth rates (AAGR) for the City are projected to range from 1.99 to 4.16 percent.

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Growth is expected to decrease gradually with the AAGR declining to 1.99 percent between 2065 and 2069. Based on these projections, the City's population is expected to reach 30,091 by 2069. (See Attachment C for population projections.)

d) Future Peak Water Demands

Identify the projected peak water. The peak water demand projection must be extended out, at a minimum, to the year requested for complete application of water, and must demonstrate that full beneficial use may be accomplished within the time requested. Describe the methodology used to create the water demand projection, such as historical growth rates or any factors affecting growth trends. Include a summary of how the subject permit, and other water rights and /or supply contracts held by the permit holder are planned or expected to be used to meet anticipated future water needs

Projected Peak Water Demand: 9.87 cfs as of Year: 2069

Methodology used to estimate peak water demand:

The City's maximum day demand for 2069 was calculated using the demand projection methodology used in the City's 2021 WMCP. In the WMCP, the City utilized a per capita demand formula to project future demand. The City used its average day demand of 106 gallons per person per day and a peaking factor of 2.0 to obtain the projected maximum day demand. Using this methodology and the City's estimated population in 2069 of 30,091, the City projects a maximum day demand of 6.38 mgd or 9.87 cfs by 2069. (30,091 people x 106 gpd per person x 2.0 peaking factor = 6.38 mgd.) (See Attachment C for demand projections.)

e) Potential Growth

Describe the potential for growth of the service area (such as the annexation of lands or new industrial and/or commercial ventures locating within the service area) and describe how those projects are expected to affect future water demands.

The City's current service area is contiguous with the City limits and the UGB. Future growth is expected to occur within the unincorporated areas outside of the City limits, but within the UGB. The type of growth will include infill and redevelopment within the City and development within the unincorporated areas inside the City's UGB. The City's growth is partially constrained to the west by the City of Monmouth, which borders Independence's western extent, and to the east by the Willamette River.

- f) Completion Date
 Provide the date by which the water development is anticipated to be completed and water put to full beneficial use. **October 1, 2069**

[OAR 690-315-0070(3)(l)]

- 10-B. Application for Extension of Time requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.

N/A, the City is asking for 46 years.

[OAR 690-315-0070(3)(j) and OAR 690-315-0070(3)(m)]

11. Provide an estimate of the costs to complete water development and summary of the future plan and schedule to complete construction and/or perfect the water right.

Considering the demand projections in Item 10-A, describe major future work and actions that must be accomplished in order to fully develop and perfect the subject permit. Provide a list of the major planning, work and/or actions needed, the approximate time frames, and estimated costs anticipated to complete the water development within the parameters of this permit.

The review of a Capital Improvement Plan (CIP) or other system infrastructure improvement plans may help when formulating a response.

CHART-V

APPROXIMATE DATE RANGE	WORK AND ACTIONS TO BE ACCOMPLISHED	ESTIMATED COST
2022-2028	<u>Design new intake and treatment facilities</u>	<u>Approx. \$8.9 million</u>
<u>Est. 2035</u>	<u>Construction of new intake and treatment facilities</u>	<u>Approx. \$50 million</u>
<u>Approx. 2060</u>	<u>Expansion of facilities</u>	<u>Approx. \$15 to 27 million</u>
Year: <u>2069</u>	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
Estimated Total Cost to Complete Development		<u>Est. \$73.9- 85.9 Million</u>

12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

A justification should integrate information from Items 5-B, 6-A or 6-B, 9, 10-A, and 11 of this application, and should include any other information or evidence to establish that the requested amount of time is reasonable, and that you will be able to complete the project within the amount of time requested.

The City holds water rights authorizing the use of both groundwater and surface water, but currently relies solely on groundwater to meet demands. The City uses groundwater appropriated from its Polk Wellfield and the South Wellfield to meet municipal water supply needs. As noted in the water rights table in Attachment B, the City also holds water rights authorizing the use of water from the Willamette River Wellfield, but the City does not currently use water from those wells in its municipal supply system and does not anticipate using the wellfield in the future due to multiple capacity limitations associated with those wells. The Polk Wellfield has a total capacity of 3.95 cfs during peak demand months. Although the City's reliable water rights do not currently authorize the use of water at this maximum authorized rate, the City has pending water right transactions that should provide it with access to this full rate in the long-term. Accordingly, the City is using the Polk wellfield capacity in its calculations of its ability to meet peak demands. The City's South Wellfield has a total capacity of 1.28 cfs, which gives the City a total groundwater supply of 5.23 cfs (3.95 from Polk Wellfield + 1.28 cfs from South Wellfield). In 2069, when its projected maximum day demand is 9.87 cfs, the City will require the full 4.46 cfs under Permit S-54331 in addition to its groundwater supply to meet these demands (4.46 + 5.23 = 9.69 cfs). Given the effort and expense required to develop Permit S-54331, the limitations on the City's existing groundwater supply and the City's projected water demands, an extension of time for Permit S-54331 until 2069 is both reasonable and necessary.

[OAR 690-315-0070(3)(o)]

13. Provide any other information you wish OWRD to consider while evaluating the Application for Extension of Time

N/A

[OAR 690-315-0070(3)(q)]

14. For Municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, provide a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

N/A, Permit S-54331 was issued on August 17, 2006.

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Attachment A

Permit S-54331

Application for Extension of Time for Permit S-54331 – City of Independence

STATE OF OREGON

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COUNTY OF POLK

APR 27 2026

PERMIT TO APPROPRIATE THE PUBLIC WATERS

OWRD

THIS PERMIT IS HEREBY ISSUED TO

CITY OF INDEPENDENCE
PO BOX 7
INDEPENDENCE, OR 97351

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: S-86398

SOURCE OF WATER: WILLAMETTE RIVER, A TRIBUTARY OF COLUMBIA RIVER

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 4.46 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: AUGUST 10, 2005

POINT OF DIVERSION LOCATION: SW ¼ SE ¼, SECTION 28, T8S, R4W, W.M.; 260 FEET NORTH & 3400 FEET EAST FROM SW CORNER, SECTION 28

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WITHIN THE SERVICE BOUNDARIES OF THE CITY OF INDEPENDENCE

Measurement, recording and reporting conditions:

- 1 A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter. The totalizing flow meter must be installed and maintained in good working order consistent with those standards identified in OAR 690-507-645(1) through (3). The permittee shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- 2

- B. The permittee shall allow the watermaster access to the meter; provided however, where the meter is located within a private structure, the watermaster shall request access upon reasonable notice.

3 Within three years of permit issuance, the permittee shall submit a Water Management and Conservation Plan consistent with OAR Chapter 690, Division 86. The Director may approve an extension of this time line to complete the required Water Management and Conservation Plan.

4 If the riparian area is disturbed in the process of developing a point of diversion, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR Chapter 635, Division 415, Section 030 adopted November 13, 1991 shall be followed.

The use may be restricted if the quality of the source stream or downstream waters decrease to the point that those waters no longer meet existing state or federal water quality standards due to reduced flows.

5 The permittee shall install, maintain, and operate fish screening and by-pass devices consistent with current Oregon Department of Fish and Wildlife (ODFW) standards. Fish screening is to prevent fish from entering the proposed diversion while by-pass devices provide adequate upstream and downstream passage for fish. The required screen and by-pass devices are to be in place and functional, and approved in writing by ODFW prior to diversion of any water. The permittee may submit evidence in writing that ODFW has determined screens and/or by-pass devices are not necessary.

STANDARD CONDITIONS

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

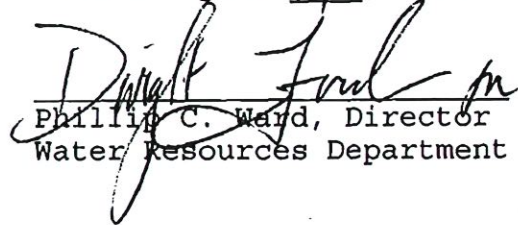
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

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

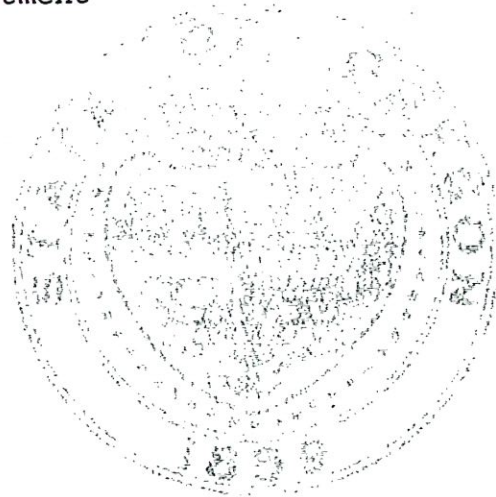
6 The permit holder shall commence and complete the construction of any proposed works within 20 years from the date of permit issuance. The Department may order and allow an extension of time to complete construction or to perfect a water right beyond 20 years from the date of permit issuance.

7 Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued August 17, 2006


Phillip C. Ward, Director
Water Resources Department

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Attachment B

Water Rights Information

Application for Extension of Time for Permit S-54331 – City of Independence

Attachment B. City of Independence Water Rights Table

Appl./ GR Registration (GR Certificate)/ Limited License	Permit	Certificate	Transfer, Permit Amendment, GR Modification	Source of water identified in water right/Facility name	Use	Authorized Rate (cfs)	Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date	Notes or Limitations to water use
Groundwater									
G-12736	G-12134	--	--	Polk Street Well 1	Municipal	2.0	1.56	10/1/1998	The current capacity of the Polk Street Well Field during the period of peak demand is approximately 3.95 cfs
G-11243	G-10375	82234 95501	T-10827	Polk Street Wells 1, 2, 3 & River Drive Well	Municipal	0.94	0.94	N/A	
G-2469	G-2279	44540 95502	T-12261	Polk Street Wells 1, 2, 3 & River Drive Well	Municipal	0.56	0.56	N/A	
LL-1973	N/A	N/A	N/A	Polk Street Wells 3 and 4	Municipal	Total - 2.5 cfs Well 3 - 1.2 cfs Well 4 - 1.3 cfs	1.3	N/A	The limited license expires in 2029 so does not provide long-term supply.
GR-3183	N/A	N/A	T-13060	South Wells 1, 2, 3, 4 & 5	Municipal	0.557	0.557	N/A	
GR-3184	N/A	N/A	T-13061	South Wells 1, 2, 3, 4 & 5	Municipal	0.891	0.891	N/A	
GR-3185	N/A	N/A	T-13062	South Wells 1, 2, 3, 4 & 5	Municipal	0.891	0.891	N/A	
G-13871	G-13015 G-17868	--	T-12511 (permit amendment)	Willamette River Wells 1, 2 & 3	Municipal	1.0 (0.33 from each well)	0.46	10/1/2042	Current access limited to 0.46 cfs The permit has fish persistence conditions for 0.35 cfs portion of permit. Water from this wellfield is not put into the City's municipal water supply system.
G-18256	G-17750	--	--	Park Well	Municipal	0.56	0.28	4/6/2037	Currently only used for irrigating soccer fields
Surface Water									
S-29640	S-23102	54268	T-12773	Willamette River (Diversion from POD 2 and Willamette River Wells 1, 2 & 3)	Municipal	2.0	0	10/1/2050	The City does not currently use water from this source.
S-86398	S-54331	--	--	Willamette River	Municipal	4.46	0	8/17/2026	The City does not currently use water from this source.
S-18304	S-14237	89411	T-7926	South Fork Ash Creek	Pond maintenance for recreational use	1.0	1.0	N/A	The City does not currently use water from this source.

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Attachment C

Population and Demand Projections

Application for Extension of Time for Permit S-54331 – City of Independence

Population Projection										
Year	2030	2035	2040	2045	2050	2055	2060	2065	2069	2070
Independence UGB	13,578	15,131	16,814	18,636	20,603	22,771	25,160	27,793	30,091	30,695
Growth Rate	2.26%	2.17%	2.11%	2.06%	2.01%	2.00%	2.00%	1.99%	1.99%	1.99%

MDD Projection					
Year	Population	ADD	MDD	MDD in cfs	
2055	22,771	2,413,726	4,827,452	7.469	
2056	23,230	2,462,372	4,924,744	7.620	
2057	23,698	2,511,999	5,023,997	7.773	
2058	24,176	2,562,625	5,125,250	7.930	
2059	24,663	2,614,272	5,228,544	8.090	
2060	25,160	2,666,960	5,333,920	8.253	
2061	25,666	2,720,580	5,441,159	8.419	
2062	26,182	2,775,278	5,550,555	8.588	
2063	26,708	2,831,075	5,662,150	8.760	
2064	27,245	2,887,994	5,775,989	8.937	
2065	27,793	2,946,058	5,892,116	9.116	
2066	28,351	3,005,161	6,010,322	9.299	
2067	28,919	3,065,450	6,130,899	9.486	
2068	29,500	3,126,948	6,253,895	9.676	
2069	30,091	3,189,680	6,379,359	9.870	
2070	30,695	3,253,670	6,507,340	10.068	
gpcd (2021 WMCP)	106				
Peaking Factor	2				

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