



6. The amount of water which the applicant intends to apply to beneficial use is ....390..... cubic feet per second or ..... 175,000 ..... gallons per minute. Refer to enclosure with letter from the City of Portland dated Dec. 28, 1979 for breakdown of this amount from each well.

7. The use to which the water is to be applied is ..... to provide an emergency and supplemental water supply for the Portland municipal water system.

8. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described. Some wells will be capable of low pressure artesian flow (less than 10 psi) during periods of high water levels in the Columbia River. Any such flows will be restrained by valves.

9. If the location of the well, or other development work is less than one-fourth mile from a natural stream channel, give the distance to the channel and the difference in elevation between the stream bed and the ground surface at the source of development. Minimum difference in elevation between proposed facilities and stream bed of Columbia River (lies adjacent to the well field) or Columbia Sloughs (lies within boundary of well field) is 20 feet.

10. DESCRIPTION OF WORKS

Include length and dimensions of supply ditch or pipeline, size and type of pump and motor, type of irrigation system to adequately describe the proposed distribution system. The construction project will consist initially of installation of approximately 30 wells with a 100 mgd combined nominal capacity and a 250 mgd combined maximum capacity. The wells will be located along the Columbia River at distances south of the river embankment varying from several hundred feet to one mile. These wells will be pumped through a network of collector pipelines to a three million gallon reservoir to be constructed near N.E. 158th Ave. and the future N.E. Inverness Drive. These collector pipelines will vary in diameter from 8 to 54 inches and have a total length of about 9 miles. From this reservoir a pump station will be constructed to pump the water through a new transmission main in NE and SE 162nd Ave. to 50-million gallon reservoir now under construction on Powell Butte. This transmission main will vary in diameter from 60 to 90 inches and have a total length of about 5 miles. The well pumps will be 1,000 to 5,000 gpm vertical turbine with 100 to 350 hp 3-phase motors. The transmission line pumps will be 500 to 1,000 gpm vertical turbine pumps with 500 to 1,000 hp 3-phase motors.

These proposed facilities will be constructed in 2 phases, each with a nominal capacity of 50 mgd. Phase I is scheduled for completion by June 30, 1984, and the water can be put to beneficial use at that time. Phase II is scheduled for completion by October 1, 1987.

11. Construction work will begin on or before..... August, 1979.....

12. Construction work will be completed on or before..... October 1, 1987.....

13. The water will be completely applied to the proposed use on or before..... October 1, 1987.....

14. If the ground water supply is supplemental to an existing supply, identify the supply and existing water right. City of Portland has water rights to full flow of the Bull Run River by water rights on file in the Clackamas County Courthouse in Oregon City.

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Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
1S	1E	32	N $\frac{1}{2}$
1S	1E	32	SE $\frac{1}{4}$
1S	1E	33	All
1S	1E	34	All
1S	1E	35	W $\frac{1}{2}$
1S	1E	35	W $\frac{1}{2}$ NE $\frac{1}{4}$
1S	1E	35	W $\frac{1}{2}$ SE $\frac{1}{4}$

Application No. G-7578  
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Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
2N	1E	19	SW $\frac{1}{4}$ SW $\frac{1}{4}$
2N	1E	29	S $\frac{1}{2}$ SW $\frac{1}{4}$
2N	1E	30	W $\frac{1}{2}$
2N	1E	30	SE $\frac{1}{4}$
2N	1E	30	SW $\frac{1}{4}$ NE $\frac{1}{4}$
2N	1E	31	All
2N	1E	32	All
2N	1E	33	SW $\frac{1}{4}$
2N	1E	33	S $\frac{1}{2}$ SE $\frac{1}{4}$
2N	1E	34	SW $\frac{1}{4}$ SW $\frac{1}{4}$
2S	1E	6	W $\frac{1}{2}$ NW $\frac{1}{4}$
2S	1E	6	W $\frac{1}{2}$ SW $\frac{1}{4}$
2S	1E	7	W $\frac{1}{2}$ NW $\frac{1}{4}$
2S	1E	7	NW $\frac{1}{4}$ SW $\frac{1}{4}$
2S	1E	19	W $\frac{1}{2}$ NW $\frac{1}{4}$
2S	1E	19	SE $\frac{1}{4}$ NW $\frac{1}{4}$
2S	1E	19	SW $\frac{1}{4}$
2S	1E	19	W $\frac{1}{2}$ SE $\frac{1}{4}$
2S	1W	1	E $\frac{1}{2}$
2S	1W	12	E $\frac{1}{2}$ NW $\frac{1}{4}$ (See page 10)
2S	1W	12	NE $\frac{1}{4}$ SE $\frac{1}{4}$
1S	1W	1	All
1S	1W	2	All
1S	1W	3	All
1S	1W	4	All
1S	1W	5	All
1S	1W	6	All
1S	1W	7	All
1S	1W	8	All
1S	1W	9	All
1S	1W	10	All
1S	1W	11	All
1S	1W	12	All
1S	1W	13	All
1S	1W	14	All
1S	1W	15	All
1S	1W	16	All
1S	1W	17	N $\frac{1}{2}$
1S	1W	17	SE $\frac{1}{4}$
1S	1W	17	N $\frac{1}{2}$ SW $\frac{1}{4}$
1S	1W	17	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	1W	18	All
1S	1W	19	N $\frac{1}{2}$
1S	1W	19	SW $\frac{1}{4}$
1S	1W	19	N $\frac{1}{2}$ SE $\frac{1}{4}$
1S	1W	19	SW $\frac{1}{4}$ SE $\frac{1}{4}$

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Township	Range	Section	List	$\frac{1}{4}$ $\frac{1}{4}$ of Section
1S	3E	21	NW	$\frac{1}{4}$
1S	3E	21	NE	$\frac{1}{4}$
1S	3E	21	N	$\frac{1}{2}$ SE $\frac{1}{4}$
1S	3E	21	SE	$\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	21	NW	$\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	21	NE	$\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	22	NW	$\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	22	NW	$\frac{1}{4}$
1S	3E	22	SW	$\frac{1}{4}$
1N	3E	19	All	
1N	3E	20	W	$\frac{1}{2}$
1N	3E	28	SW	$\frac{1}{4}$
1N	3E	29	All	
1N	3E	30	All	
1N	3E	31	All	
1N	3E	32	All	
1N	3E	33	S	$\frac{1}{2}$
1N	3E	33	NW	$\frac{1}{4}$
1N	3E	33	S	$\frac{1}{2}$ NE $\frac{1}{4}$
1N	3E	34	SW	$\frac{1}{4}$ NW $\frac{1}{4}$
1N	3E	34	W	$\frac{1}{2}$ SW $\frac{1}{4}$
1N	3E	34	SE	$\frac{1}{4}$ SW $\frac{1}{4}$
1N	3E	34	S	$\frac{1}{2}$ SE $\frac{1}{4}$
1N	3E	35	W	$\frac{1}{2}$ SW $\frac{1}{4}$
1N	2E	4	SW	$\frac{1}{4}$ SW $\frac{1}{4}$
1N	2E	5	NW	$\frac{1}{4}$ NW $\frac{1}{4}$
1N	2E	5	SW	$\frac{1}{4}$ NW $\frac{1}{4}$
1N	2E	5	SE	$\frac{1}{4}$ NW $\frac{1}{4}$
1N	2E	5	SW	$\frac{1}{4}$
1N	2E	5	NW	$\frac{1}{4}$ SE $\frac{1}{4}$
1N	2E	5	SW	$\frac{1}{4}$ SE $\frac{1}{4}$
1N	2E	5	SE	$\frac{1}{4}$ SE $\frac{1}{4}$
1N	2E	6	All	
1N	2E	7	All	
1N	2E	8	All	
1N	2E	9	NW	$\frac{1}{4}$
1N	2E	9	SW	$\frac{1}{4}$
1N	2E	9	SE	$\frac{1}{4}$
1N	2E	9	SW	$\frac{1}{4}$ NE $\frac{1}{4}$
1N	2E	10	NW	$\frac{1}{4}$ SW $\frac{1}{4}$
1N	2E	10	SW	$\frac{1}{4}$ SW $\frac{1}{4}$
1N	2E	10	SE	$\frac{1}{4}$ SW $\frac{1}{4}$
1N	2E	13	S	$\frac{1}{2}$ SW $\frac{1}{4}$
1N	2E	13	S	$\frac{1}{2}$ SE $\frac{1}{4}$
1N	2E	14	SW	$\frac{1}{4}$ NW $\frac{1}{4}$
1N	2E	14	SW	$\frac{1}{4}$
1N	2E	14	SE	$\frac{1}{4}$
1N	2E	15	W	$\frac{1}{2}$
1N	2E	15	SE	$\frac{1}{4}$

Township	Range	Section	List $\frac{1}{2}$ $\frac{1}{2}$ of Section
1N	2E	15	W $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2E	15	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1N	2E	16	All
1N	2E	17	All
1N	2E	18	All
1N	2E	19	All
1N	2E	20	All
1N	2E	21	All
1N	2E	22	All
1N	2E	23	All
1N	2E	24	All
1N	2E	25	All
1N	2E	26	All
1N	2E	27	All
1N	2E	28	All
1N	2E	29	All
1N	2E	30	All
1N	2E	31	All
1N	2E	32	All
1N	2E	33	All
1N	2E	34	All
1N	2E	35	All
1N	2E	36	All
1S	2E	1	All
1S	2E	2	All
1S	2E	3	All
1S	2E	4	All
1S	2E	5	All
1S	2E	6	All
1S	2E	7	All
1S	2E	8	All
1S	2E	9	All
1S	2E	10	All
1S	2E	11	All
1S	2E	12	All
1S	2E	13	All
1S	2E	14	All
1S	2E	15	All
1S	2E	16	All
1S	2E	17	All
1S	2E	18	All
1S	2E	19	All
1S	2E	20	All
1S	2E	21	All
1S	2E	22	All
1S	2E	23	All
1S	2E	24	All

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Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
1S	2E	25	N $\frac{1}{2}$ NW $\frac{1}{4}$
1S	2E	25	E $\frac{1}{2}$ NE $\frac{1}{4}$
1S	2E	25	NE $\frac{1}{4}$ SE $\frac{1}{4}$
1S	2E	26	NW $\frac{1}{4}$
1S	2E	26	N $\frac{1}{2}$ NE $\frac{1}{4}$
1S	2E	27	N $\frac{1}{2}$ NE $\frac{1}{4}$
1S	2E	27	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1S	2E	28	NW $\frac{1}{4}$ NE $\frac{1}{4}$
1S	2E	29	W $\frac{1}{2}$ NW $\frac{1}{4}$
1S	2E	29	W $\frac{1}{2}$ SW $\frac{1}{4}$
1S	2E	30	NE $\frac{1}{4}$
1S	2E	30	SE $\frac{1}{4}$
1N	1E	1	All
1N	1E	2	S $\frac{1}{2}$
1N	1E	2	S $\frac{1}{2}$ NW $\frac{1}{4}$
1N	1E	2	S $\frac{1}{2}$ NE $\frac{1}{4}$
1N	1E	3	All
1N	1E	4	All
1N	1E	5	All
1N	1E	6	All
1N	1E	7	All
1N	1E	8	All
1N	1E	9	All
1N	1E	10	All
1N	1E	11	All
1N	1E	12	All
1N	1E	13	All
1N	1E	14	All
1N	1E	15	All
1N	1E	16	All
1N	1E	17	All
1N	1E	18	All
1N	1E	19	All
1N	1E	20	All
1N	1E	21	All
1N	1E	22	All
1N	1E	23	All
1N	1E	24	All
1N	1E	25	All
1N	1E	26	All
1N	1E	27	All
1N	1E	28	All
1N	1E	29	All
1N	1E	30	S $\frac{1}{2}$
1N	1E	30	NE $\frac{1}{4}$
1N	1E	30	SW NW $\frac{1}{4}$
1N	1E	30	SE NW $\frac{1}{4}$
1N	1E	30	NE NW $\frac{1}{4}$

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Permit No. G 8755

Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
1N	1E	31	W $\frac{1}{2}$
1N	1E	31	SE $\frac{1}{4}$
1N	1E	31	S $\frac{1}{2}$ NE $\frac{1}{2}$
1N	1E	32	E $\frac{1}{2}$
1N	1E	32	SW $\frac{1}{4}$
1N	1E	32	E $\frac{1}{2}$ NW $\frac{1}{4}$
1N	1E	32	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1N	1E	33	All
1N	1E	34	All
1N	1E	35	All
1N	1E	36	All
1S	1E	1	All
1S	1E	2	All
1S	1E	3	All
1S	1E	4	All
1S	1E	5	All
1S	1E	6	All
1S	1E	7	All
1S	1E	8	All
1S	1E	9	All
1S	1E	10	All
1S	1E	11	All
1S	1E	12	All
1S	1E	13	All
1S	1E	14	All
1S	1E	15	All
1S	1E	16	All
1S	1E	17	All
1S	1E	18	All
1S	1E	19	All
1S	1E	20	All
1S	1E	21	All
1S	1E	22	All
1S	1E	23	All
1S	1E	24	All
1S	1E	25	NW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	1E	25	NE $\frac{1}{4}$ NE $\frac{1}{4}$
1S	1E	26	NE $\frac{1}{4}$
1S	1E	26	NW $\frac{1}{4}$
1S	1E	26	W $\frac{1}{2}$ SW $\frac{1}{4}$
1S	1E	27	All
1S	1E	28	All
1S	1E	29	All
1S	1E	30	All
1S	1E	31	All

Application No. G-7578  
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WELL LOCATIONS AND CAPACITIES

\*W.M. County of Multnomah

WEST WELL FIELD

Well No.	Location	Water Source	Nominal Capacity (gpm)	Maximum Capacity (gpm)
1	T1N R2E Sec. 16 SW $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>27.8</sup>	TGA	5000	12,500
2	T1N R2E Sec. 16 NE $\frac{1}{4}$ of SE $\frac{1}{4}$ <sup>27.8</sup>	TGA	5000	12,500
3	T1N R2E Sec. 15 NW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>27.8</sup>	TGA	5000	12,500
4	T1N R2E Sec. 15 NE $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>27.8</sup>	TGA	5000	12,500
5	T1N R2E Sec. 15 NW $\frac{1}{4}$ of SE $\frac{1}{4}$ <sup>27.9</sup>	TGA	5000	12,500
6	T1N R2E Sec. 10 SW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>5.5</sup>	TSA	1000	2,500
7	T1N R2E Sec. 15 SE $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>5.6</sup>	TSA	1000	2,500
8	T1N R2E Sec. 16 SW $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>5.6</sup>	TSA	1000	2,500
9	T1N R2E Sec. 15 NW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>5.6</sup>	TSA	1000	2,500
10	T1N R2E Sec. 15 SE $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>5.6</sup>	TSA	1000	2,500
11	T1N R2E Sec. 10 SW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>4.0</sup>	UCRS	1000	2,500
12	T1N R2E Sec. 15 NE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>4.0</sup>	UCRS	1000	2,500
13	T1N R2E Sec. 15 SE $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>4.0</sup>	UCRS	1000	2,500
14	T1N R2E Sec. 15 SW $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>11.7</sup>	LCRS	2000	5,000

EAST WELL FIELD

1	T1N R2E Sec. 14 SE $\frac{1}{4}$ of SE $\frac{1}{4}$ <sup>16.7</sup>	SRMA	3000	7,500
2	T1N R2E Sec. 13 SW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>16.7</sup>	SRMA	3000	7,500
3	T1N R2E Sec. 24 SE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>8.4</sup>	TSA	1500	3,750
4	T1N R2E Sec. 24 NW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>13.9</sup>	SRMA	2500	6,250
5	T1N R2E Sec. 24 NE $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>13.9</sup>	SRMA	2500	6,250
6	T1N R2E Sec. 24 SE $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>13.9</sup>	SRMA	2500	6,250
7	T1N R3E Sec. 19 NW $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>5.2</sup>	TSA	1000	2,500
8	T1N R3E Sec. 19 SW $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>5.2</sup>	TSA	1000	2,500
9	T1N R3E Sec. 19 NE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>13.7</sup>	SRMA	2500	6,250
10	T1N R3E Sec. 19 SE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>13.7</sup>	SRMA	2500	6,250
11	T1N R3E Sec. 19 NW $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>5.2</sup>	TSA	1000	2,500
12	T1N R3E Sec. 20 SW $\frac{1}{4}$ of SW $\frac{1}{4}$ <sup>8.4</sup>	SRMA	1500	3,750
13	T1N R3E Sec. 20 NE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>8.4</sup>	SRMA	1500	3,750
14	T1N R3E Sec. 20 SE $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>11.1</sup>	SRMA	2000	5,000
15	T1N R3E Sec. 21 NE $\frac{1}{4}$ of NW $\frac{1}{4}$ <sup>19.5</sup>	BLA	3500	8,750
16	T1N R3E Sec. 21 SW $\frac{1}{4}$ of NE $\frac{1}{4}$ <sup>19.5</sup>	BLA	3500	8,750

Totals 30 -- 70,000 gpm 175,000 gpm

RECEIVED

DEC 28 1979

Application No. G-7578

Permit No. C 8755

SUPPLEMENT NO. 2 (REVISED 1/17/80)

LIST OF AREAS BENEFITED BY GROUNDWATER

Note: For use, see Item No. 7

Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
1S	3E	1	NW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	1	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	1	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	1	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	2	All
1S	3E	3	All
1S	3E	4	All
1S	3E	5	All
1S	3E	6	All
1S	3E	7	All
1S	3E	8	All
1S	3E	9	All
1S	3E	10	All
1S	3E	11	All
1S	3E	12	NW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	12	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	12	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	12	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	14	NW $\frac{1}{4}$
1S	3E	14	SW $\frac{1}{4}$
1S	3E	14	NW $\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	14	NE $\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	14	NW $\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	14	SW $\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	15	All
1S	3E	16	All
1S	3E	17	All
1S	3E	18	NW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	18	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	18	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	18	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	18	NE $\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	18	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	18	SW $\frac{1}{4}$ NE $\frac{1}{4}$
1S	3E	18	NE $\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	18	NW $\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	18	SE $\frac{1}{4}$ SE $\frac{1}{4}$
1S	3E	19	NW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	19	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1S	3E	19	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	19	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	3E	20	NE $\frac{1}{4}$
1S	3E	20	NE $\frac{1}{4}$ SE $\frac{1}{4}$

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 Permit No. G 8755

**RECEIVED**  
 JAN 17 1980  
 WATER RESOURCES DEPT  
 SALEM, OREGON

Township	Range	Section	List $\frac{1}{2}$ $\frac{1}{2}$ of Section
1S	1W	20	NE $\frac{1}{2}$
1S	1W	20	SE $\frac{1}{2}$
1S	1W	20	SW $\frac{1}{2}$
1S	1W	20	SW $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	21	All
1S	1W	22	All
1S	1W	23	All
1S	1W	24	All
1S	1W	25	All
1S	1W	26	All
1S	1W	27	All
1S	1W	28	E $\frac{1}{2}$
1S	1W	28	E $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	28	E $\frac{1}{2}$ SW $\frac{1}{2}$
1S	1W	29	SW $\frac{1}{2}$
1S	1W	29	SE $\frac{1}{2}$
1S	1W	29	N $\frac{1}{2}$ NE $\frac{1}{2}$
1S	1W	29	N $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	30	All
1S	1W	33	NE $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	33	N $\frac{1}{2}$ NE $\frac{1}{2}$
1S	1W	33	SW $\frac{1}{2}$ NE $\frac{1}{2}$
1S	1W	33	S $\frac{1}{2}$ SE $\frac{1}{2}$
1S	1W	34	N $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	34	N $\frac{1}{2}$ NW $\frac{1}{2}$
1S	1W	34	NE $\frac{1}{2}$
1S	1W	34	SE $\frac{1}{2}$
1S	1W	34	E $\frac{1}{2}$ SW $\frac{1}{2}$
1S	1W	34	SW $\frac{1}{2}$ SW $\frac{1}{2}$
1S	1W	35	All
1S	1W	36	All
1N	1W	1	All
1N	1W	2	All
1N	1W	3	All
1N	1W	4	S $\frac{1}{2}$
1N	1W	4	S $\frac{1}{2}$ NW $\frac{1}{2}$
1N	1W	4	S $\frac{1}{2}$ NE $\frac{1}{2}$
1N	1W	4	NW $\frac{1}{2}$ NW $\frac{1}{2}$
1N	1W	4	NE $\frac{1}{2}$ NE $\frac{1}{2}$
1N	1W	5	NE $\frac{1}{2}$
1N	1W	5	SE $\frac{1}{2}$
1N	1W	5	N $\frac{1}{2}$ SW $\frac{1}{2}$
1N	1W	5	SE $\frac{1}{2}$ SW $\frac{1}{2}$
1N	1W	6	E $\frac{1}{2}$ SE $\frac{1}{2}$
1N	1W	9	E $\frac{1}{2}$ NE $\frac{1}{2}$
1N	1W	10	E $\frac{1}{2}$
1N	1W	10	NW $\frac{1}{2}$
1N	1W	11	All
1N	1W	12	All
1N	1W	13	All
1N	1W	14	All

Township	Range	Section	List $\frac{1}{4}$ $\frac{1}{4}$ of Section
1N	1W	15	E $\frac{1}{2}$ NE $\frac{1}{4}$
1N	1W	15	E $\frac{1}{2}$ SE $\frac{1}{4}$
1N	1W	18	SE $\frac{1}{4}$
1N	1W	18	E $\frac{1}{2}$ SW $\frac{1}{4}$
1N	1W	18	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1N	1W	19	E $\frac{1}{2}$ NW $\frac{1}{4}$
1N	1W	19	W $\frac{1}{2}$ NE $\frac{1}{4}$
1N	1W	19	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1N	1W	19	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1N	1W	19	SW $\frac{1}{4}$
1N	1W	19	SE $\frac{1}{4}$
1N	1W	20	SW $\frac{1}{4}$ NW $\frac{1}{4}$
1N	1W	20	SW $\frac{1}{4}$
1N	1W	20	W $\frac{1}{2}$ SE $\frac{1}{4}$
1N	1W	21	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1N	1W	21	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1N	1W	23	All
1N	1W	24	All
1N	1W	25	All
1N	1W	26	S $\frac{1}{2}$
1N	1W	26	NE $\frac{1}{4}$
1N	1W	26	W $\frac{1}{2}$ NW $\frac{1}{4}$
1N	1W	26	SE $\frac{1}{4}$ NW $\frac{1}{4}$
1N	1W	27	E $\frac{1}{2}$
1N	1W	27	E $\frac{1}{2}$ NW $\frac{1}{4}$
1N	1W	27	E $\frac{1}{2}$ SW $\frac{1}{4}$
1N	1W	28	NW $\frac{1}{4}$
1N	1W	28	SW $\frac{1}{4}$
1N	1W	28	W $\frac{1}{2}$ SE $\frac{1}{4}$
1N	1W	28	SE $\frac{1}{4}$ SE $\frac{1}{4}$
1N	1W	28	SW $\frac{1}{4}$ NE $\frac{1}{4}$
1N	1W	29	All
1N	1W	30	E $\frac{1}{2}$
1N	1W	30	NW $\frac{1}{4}$
1N	1W	30	E $\frac{1}{2}$ SW $\frac{1}{4}$
1N	1W	31	E $\frac{1}{2}$
1N	1W	31	NW $\frac{1}{4}$
1N	1W	31	E $\frac{1}{2}$ SW $\frac{1}{4}$
1N	1W	31	NW $\frac{1}{4}$ SW $\frac{1}{4}$
1N	1W	32	All
1N	1W	33	All
1N	1W	34	All
1N	1W	35	All
1N	1W	36	All
1N	2W	13	All
1N	2W	14	NE $\frac{1}{4}$ SE $\frac{1}{4}$
1N	2W	14	NE $\frac{1}{4}$ NE $\frac{1}{4}$

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Township	Range	Section	List $\frac{1}{2}$ $\frac{1}{4}$ of Section
1N	2W	14	SE $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	14	SW $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	14	NW $\frac{1}{4}$
1N	2W	23	NW $\frac{1}{4}$
1N	2W	23	S $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	23	NE $\frac{1}{4}$ NE $\frac{1}{4}$
1N	2W	23	N $\frac{1}{2}$ SE $\frac{1}{4}$
1N	2W	24	NW $\frac{1}{4}$
1N	2W	24	SW $\frac{1}{4}$
1N	2W	24	S $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	24	SE $\frac{1}{4}$
1N	2W	25	N $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	25	SW $\frac{1}{4}$
1N	2W	25	SE $\frac{1}{4}$
1N	2W	26	S $\frac{1}{2}$ NE $\frac{1}{4}$
1N	2W	26	SE $\frac{1}{4}$
1N	2W	34	E $\frac{1}{2}$ SE $\frac{1}{4}$
1N	2W	34	SE $\frac{1}{4}$ NE $\frac{1}{4}$
1N	2W	35	E $\frac{1}{2}$
1N	2W	35	SW $\frac{1}{4}$
1N	2W	35	S $\frac{1}{2}$ NW $\frac{1}{4}$
1N	2W	36	N $\frac{1}{2}$
1N	2W	36	N $\frac{1}{2}$ SW $\frac{1}{4}$
1N	2W	36	N $\frac{1}{2}$ SE $\frac{1}{4}$
1N	2W	36	SW $\frac{1}{4}$ SW $\frac{1}{4}$
1S	2W	1	S $\frac{1}{2}$
1S	2W	1	S $\frac{1}{2}$ NW $\frac{1}{4}$
1S	2W	1	SW $\frac{1}{4}$ NE $\frac{1}{4}$
1S	2W	2	SE $\frac{1}{4}$
1S	2W	2	NE $\frac{1}{4}$ SW $\frac{1}{4}$
1S	2W	10	N $\frac{1}{2}$ NE $\frac{1}{4}$
1S	2W	11	N $\frac{1}{2}$
1S	2W	12	All
1S	2W	13	All
1S	2W	14	E $\frac{1}{2}$ SE $\frac{1}{4}$
1S	2W	23	E $\frac{1}{2}$ NE $\frac{1}{4}$
1S	2W	23	NE $\frac{1}{4}$ SE $\frac{1}{4}$
1S	2W	24	All
1S	2W	25	N $\frac{1}{2}$
1S	2W	25	NE $\frac{1}{4}$ SW $\frac{1}{4}$
1S	2W	25	NE $\frac{1}{4}$ SE $\frac{1}{4}$
2N	1W	17	SE $\frac{1}{4}$ SW $\frac{1}{4}$
2N	1W	18	S $\frac{1}{2}$ SE $\frac{1}{4}$
2N	1W	18	NW $\frac{1}{4}$ SE $\frac{1}{4}$
2N	1W	19	E $\frac{1}{2}$ NE $\frac{1}{4}$
2N	1W	19	NW $\frac{1}{4}$ NE $\frac{1}{4}$
2N	1W	20	All
2N	1W	21	SW $\frac{1}{4}$
2N	1W	21	NW $\frac{1}{4}$

Township	Range	Section	List $\frac{1}{2}$ $\frac{1}{2}$ of Section
2N	1W	24	All
2N	1W	25	All
2N	1W	26	All
2N	1W	28	NW $\frac{1}{2}$
2N	1W	28	SE $\frac{1}{2}$
2N	1W	28	NE $\frac{1}{2}$ SW $\frac{1}{2}$
2N	1W	28	W $\frac{1}{2}$ NE $\frac{1}{2}$
2N	1W	29	N $\frac{1}{2}$ NW $\frac{1}{2}$
2N	1W	29	N $\frac{1}{2}$ NE $\frac{1}{2}$
2N	1W	32	SE $\frac{1}{2}$ SE $\frac{1}{2}$
2N	1W	32	SW $\frac{1}{2}$ SE $\frac{1}{2}$
2N	1W	34	All
2N	1W	35	All
2N	1W	36	All
2S	1W	1	All
2S	1W	2	All
2S	1W	3	All
2S	1W	4	E $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	4	E $\frac{1}{2}$ SW $\frac{1}{2}$
2S	1W	4	E $\frac{1}{2}$
2S	1W	9	E $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	9	E $\frac{1}{2}$
2S	1W	10	All
2S	1W	11	All
2S	1W	12	All
2S	1W	13	W $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	13	NE $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	13	NW $\frac{1}{2}$ SE $\frac{1}{2}$
2S	1W	13	S $\frac{1}{2}$ SE $\frac{1}{2}$
2S	1W	13	S $\frac{1}{2}$ NE $\frac{1}{2}$
2S	1W	13	SE $\frac{1}{2}$
2S	1W	14	N $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	14	SE $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	14	E $\frac{1}{2}$ SW $\frac{1}{2}$
2S	1W	14	E $\frac{1}{2}$
2S	1W	23	All
2S	1W	24	All
2S	1W	25	W $\frac{1}{2}$ SW $\frac{1}{2}$
2S	1W	25	NW $\frac{1}{2}$
2S	1W	26	E $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1W	26	NE $\frac{1}{2}$ SW $\frac{1}{2}$
2S	1W	26	N $\frac{1}{2}$ SE $\frac{1}{2}$
2S	1W	26	NE $\frac{1}{2}$
2S	1W	36	NW $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1E	6	W $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1E	6	W $\frac{1}{2}$ SW $\frac{1}{2}$
2S	1E	7	W $\frac{1}{2}$ NW $\frac{1}{2}$
2S	1E	7	NW $\frac{1}{2}$ SW $\frac{1}{2}$

Application No. G-7578

Permit No. G 8755

## SUPPLEMENT NO. 3

The City of Portland water system serves approximately 700,000 people living in or adjacent to the City. The customers are supplied by a single water source, the Bull Run River, through three pipelines running 26 miles from the headworks facility to terminal storage facilities in the City.

The Bull Run River's water quality occasionally does not meet the current U. S. Environmental Protection Agencies' requirements for drinking water. In addition, the pipelines conveying the water supply to the City are susceptible to destruction and/or damage by landslides and by sabotage where the pipes cross several bridges. Due to the potential for a loss of the Bull Run River supply and the effect such a loss would have on the economic livelihood of the Portland Metropolitan Area, an emergency water supply system is considered a necessary requirement for continued development of the Portland Metropolitan Area.

The quantity of appropriation requested is based upon a need to provide a minimal water supply of 100 mgd for the system, if the Bull Run River supply were not available for a ninety-day period. A 100 mgd supply coupled with water conservation measures is sufficient to prevent the closures of most businesses due to lack of water. The 250 mgd maximum, short term capacity is requested to provide sufficient capacity to meet the demands on the water system without special conservation measures by the customers if the Bull Run supply is unavailable for a period of less than three days.

The demand for water placed on the Portland Water System by water districts serviced by the Portland System have been increasing and are projected to continue this increase. Several of these customers with very large potential water use, such as Wolf Creek Water District, have signed twenty-five-year agreements with Portland for water service. The total system demands are projected to exceed the system's water supply capability prior to the completion of the groundwater supply system proposed herein. The groundwater system is, therefore, required to supplement the existing system in an ever-increasing capacity, limited to 100 mgd, during periods of high demand for water.

Application No. G-7578

Permit No. G 8755

**RECEIVED**

DEC 21 1979

WATER RESOURCES DEPT.  
SALEM, OREGON

# SUPPLEMENT NO. 1

**RECEIVED**

DEC 21 1979

WATER RESOURCES DEPT  
SALEM, OREGON

\* W. M. COUNTY OF MULTNOMAH

WEST WELL FIELD					
WELL NO.	REFERENCE POINT *	LOCATION IN FT.			
		N	S	E	W
1 & 8	N.E. COR. SEC. 16 TIN R2E		2250		1650
2	S.E. COR. SEC. 16 TIN R2E	2100			650
3 & 9	S.W. COR. SEC. 15 TIN R2E	2050		550	
4	N.W. COR. SEC. 15 TIN R2E		3150	2050	
5	N.E. COR. SEC. 15 TIN R2E		3400		1650
6 & 11	S.W. COR. SEC. 10 TIN R2E	650		150	
7 & 13	N.E. COR. SEC. 15 TIN R2E		2550		850
10	S.E. COR. SEC. 15 TIN R2E	1150			2700
12	N.W. COR. SEC. 15 TIN R2E		450	1500	
14	" "		1650	700	
EAST WELL FIELD					
1	S.E. COR. SEC. 13 TIN R2E	400			6000
2	" "	150			4000
3	N.E. COR. SEC. 24 TIN R2E		1750		3550
4	" "		3300		4500
5	" "		500		1350
6	" "		2200		1250
7	N.W. COR. SEC. 19 TIN R3E		700	150	
8	" "		2500	200	
9	" "		850	1650	
10	" "		2450	1650	
11	N.E. COR. SEC. 19 TIN R3E		1300		1450
12	N.W. COR. SEC. 20 TIN R3E		4050	850	
13	" "		1300	1550	
14	N.E. COR. SEC. 20 TIN R3E		1700		1100
15	N.W. COR. SEC. 21 TIN R3E		1000	2300	
16	" "		1400	3300	

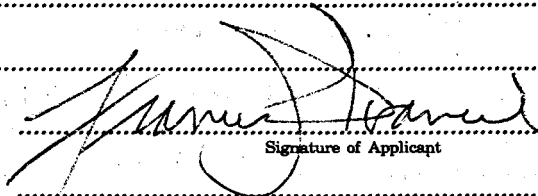
Application No. G-7578

Permit No. G 8755



*Remarks:* The proposed wells will withdraw water from aquifers directly or indirectly in hydraulic communication with the waters of the Columbia River, assuring a lasting source of recharge for the aquifers utilized. The Bureau's Groundwater Study has identified four such aquifers within the area selected for the Portland Well Field. Few recorded existing wells presently use the aquifers proposed for development and placement of the wells is structured to prevent undue interference with the existing wells.

For further remarks, see Supplement No. 3.



Signature of Applicant

*This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for.....*

*In order to retain its priority, this application must be returned to the Water Resources Director with corrections on or before....., 19.....*

*WITNESS my hand this ..... day of....., 19.....*

*Water Resources Director*

*By .....*

*This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the 12<sup>th</sup> day of November, 1976, at 3:18 o'clock P.M.*

### Permit to Appropriate the Public Waters of the State of Oregon

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS INCLUDING THE EXISTING MINIMUM FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 390 cubic feet per second measured at the point of diversion from the

well or source of appropriation, or its equivalent in case of rotation with other water users, from 30 wells being (from West Well Field) 27.8 cfs #1, 27.8 cfs #2, 27.8 cfs #3, 27.8 cfs #4, 27.9 cfs #5, 5.5 cfs #6, 56. cfs #7, 5.6 cfs #8, 5.6 cfs #9, 5.6 cfs #10, 5.6 cfs #11, 5.6 cfs #12, 5.6 cfs #13, 11.1 cfs #14, and (from East Well Field) 16.7 cfs \*\*\*

The use to which this water is to be applied is to provide an emergency and supplemental water supply for the Portland Municipal water system.

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed acre feet per acre for each acre irrigated during the irrigation season of each year;

\*\*\* #1, 16.7 cfs #2, 8.4 cfs #3, 13.9 cfs #4, 13.9 cfs #5, 13.9 cfs #6, 5.6 cfs #7, 5.6 cfs #8, 13.9 cfs #9, 13.9 cfs #10, 5.6 cfs #11, 8.4 cfs #12, 8.4 cfs #13, 11.1 cfs #14, 19.5 cfs #15, 19.5 cfs #16.

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer. The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is November 12, 1976

Actual construction work shall begin on or before August, 1979 and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1981

Extended to Oct. 1, 1986 Extended to October 1, 1991, 10-1-91, ext. BCD1 Complete application of the water to the proposed use shall be made on or before October 1, 1982

Extended to Oct. 1, 1986 Extended to October 1, 1991, 10-1-91 WITNESS my hand this 25th day of February, 1980

James E. Skyrn Water Resources Director