

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

The Grants Pass Irrigation District of Grants Pass, County of Josephine, State of Oregon, does hereby make application for a permit to appropriate the following described public waters of the State of Oregon, subject to existing rights:

The applicant is a municipal corporation organized under the Irrigation District Laws of Oregon.

1. The sources of the proposed appropriation are Rogue River, Savage Creek, Sand Creek, Allen Creek, Gilbert Creek, Fruitdale Creek, Jones Creek, Green Creek, Sparrowhawk Creek, Dutcher Creek and Skunk Creek, all being tributaries of Rogue River and also all waste and seepage water which accumulates within the project.

2. The amount of water which the applicant intends to apply to beneficial use is 345.0 cubic feet per second, apportioned as follows: Rogue River, 300.0 sec. ft.; Savage Creek, 5.0 sec. ft.; Sand Creek, 6.0 sec. ft.; Allen Creek, 6.0 sec. ft.; Gilbert Creek, 5.0 sec. ft.; Fruitdale Creek, 5.0 sec. ft.; Jones Creek, 6.0 sec. ft.; Greene Creek, 3.0 sec. ft.; Sparrowhawk Creek, 3.0 sec. ft.; Dutcher Creek, 3.0 sec. ft.; and Skunk Creek, 3.0 sec. ft.

3. The use to which the water is to be applied is irrigation.

4. The points of diversion are located as follows:

Rogue River: N.35°33'W. 589 ft. from the SE Cor., Section 24, Twp. 36 S., R. 5 W., W. M. and also N.00°30' E. 884 ft. from same corner, being within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 24, Twp. 36 S., R. 5 W., and the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 19, Twp. 36 S., R. 4 W., W.M.
Savage Creek: N.88°07' W. 2320 ft. from the W $\frac{1}{4}$ Sec. 30 Twp. 36 S., R. 4 W., W. M., being within the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of said Sec. 30.
Sand Creek: N.62°15' W. 1060 ft. from the S $\frac{1}{4}$ cor. of Sec. 26, Twp. 36 S., R. 6 W., W.M., being within the SE $\frac{1}{4}$ SW $\frac{1}{4}$, said Sec. 26, also N. 25°12'W. 400 ft. from the SE cor. of Sec. 27, Twp. 36 S., R. 6 W., W.M., being within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, of said Sec. 27.
Allen Creek: N.36° 28' W. 1570 ft. from the E $\frac{1}{4}$ cor. of Sec. 36, Twp. 36 S., R. 6 W., W. M., being within the SE $\frac{1}{4}$ NE $\frac{1}{4}$, of said Sec. 36.
Gilbert Creek: S. 88°10' W. 500 ft. from the NE cor. of Sec. 7, Twp. 36 S., R. 5 W., W. M., being within the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of said Sec. 7.
Fruitdale Creek: S. 22° 32' E. 1350 ft. from the W $\frac{1}{4}$ cor. of Sec. 28, Twp. 36 S., R. 5 W., W. M., being within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of said Sec. 28.
Jones Creek: N. 5°22' W. 1290 ft. from the SE cor. of Sec. 16, Twp. 36 S., R. 5 W., W. M., being within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, of said Sec. 16.
Greene Creek: N. 53°08' E. 2205 ft. from the SW cor. of Sec. 23, Twp. 36 S., R. 5 W., W. M., being within the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of said Sec. 23.
Sparrowhawk Creek: S. 58°42' E. 420 ft. from N $\frac{1}{4}$ Sec. 28, Twp. 36 S., R. 6 W., W. M., being within the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of said Sec. 28.
Dutcher Creek: S. 82°42' E. 1750 ft. from the NW cor. of Sec. 14, Twp. 36 S., R. 6 W. W. M., being within the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of said Sec. 14.
Skunk Creek: S.45°00' W. 1900 ft. from the N $\frac{1}{4}$ cor. of Sec. 17, Twp. 36 S., R. 5 W., W. M., being within the NW $\frac{1}{4}$ NW $\frac{1}{4}$, of Sec. 17.

The right is requested to divert water from any of these streams or the tributaries or from any sloughs, ravines or other water courses within the project in which waste or seepage water may accumulate, such diversions to be made at any point found advantageous and not limited to the diversion points described.

5. The canals used for these diversions are the same as will be used for the water supply from Rogue River and are of various lengths. For complete information reference is made to the accompanying map.

6. The names of the canals for each of the main diversions above described are as follows: Rogue River, Main Canal, South High Line Canal and Tokay Canal; Savage Creek, Savage Creek Lateral; Sand Creek, South High Line Canal; Allen Creek, South High Line Canal; Gilbert Creek, Tokay Canal; Fruitdale Creek, South High Line Canal; Jones Creek, Jones Creek Lateral; Greene Creek, South High Line Canal; Sparrowhawk Creek, South Canal; Dutcher Creek, Hillside Lateral; Skunk Creek, "A" Street Lateral.

7. The diversion works for the streams above named are described as follows:

Rogue River: All diversions from Rogue River are made at the Savage Rapids Dam. This dam is a Multiple Arch and gravity type with 25 foot spans with the power house on the north side of the river and the gravity canal intake on the south side. The south 9 panels being of less height than the balance of the dam, were constructed as a gravity section. The length of the dam proper is 400 feet, and the total length of the structure is 500 feet including 11 feet for canal intake, 41 feet for power house, 12 feet for fishway and 36 feet for cutoff walls at both ends. The height of the dam is 24 feet above the down stream pavement and this can be increased 10 feet by the movable crest of the dam.

It is constructed as an overflow structure, the entire length being designed as a spillway which will permit the water to pass over during all stages of the flow. Within each of the panels is placed a segmental gate, so constructed that when the gate is down the river flow will pass over the crest of the dam and the gates well. The gates can be raised to maintain the water level above the dam at an elevation of ten feet higher than when the gates are in their lowest position. The gates are operated by hydraulic pressure.

The power plant which operates the pumps consists of two horizontal double-runner turbines, operating under a head of 28 feet and requiring, theoretically a maximum flow of 660 second feet. One turbine is direct connected to a 30 inch bottom suction centrifugal pump with a theoretical capacity of 67 second-feet against a head of 90 feet.

This pump discharges through a 42" diameter pipe into the South High Line Canal. The other turbine drives two 24" centrifugal pumps connected in series and with a theoretical capacity of 40 second feet against a head of 150 feet. These pumps discharge into the Tokay Canal through a 42 " diameter pipe.

The diversion for the main canal is by gravity directly from the dam.

Savage Creek Dam: Height 5 ft. length on top 30 ft. length on bottom 15 ft. Concrete.

Sand Creek Dam: Height 5 ft. length on top 16 ft. length on bottom 16 ft. Concrete.

Allen Creek Dam: Height 5 ft. length 16 ft. Concrete.

Gilbert Creek Dam: Height 5 ft. length 8 ft. Concrete.

Fruitdale Creek Dam: Height 6 ft. length 16 ft. Concrete.

Jones Creek Dam: Height 6 ft. length 16 ft. Concrete

Greene Creek Dam: Height 5 ft. length 16 ft. Concrete

Sparrowhawk Creek Dam: Height 4 ft. length 8 ft. Concrete.

Dutcher Creek Dam: Height 4 ft. length 8 ft. Concrete

Slunk Creek Dam: Height 8 ft. length 16 ft. Concrete.

8. Cross sections of the canals are shown on the accompanying map.

9. The land to be irrigated has a total area of 18,392.6 acres, located in each smallest legal subdivision as follows:

NW $\frac{1}{4}$ SW $\frac{1}{4}$	13.1		
SW $\frac{1}{4}$ SW $\frac{1}{4}$	18.6		
Section 3		NE $\frac{1}{4}$ SW $\frac{1}{4}$	11.0
SE $\frac{1}{4}$ NE $\frac{1}{4}$	1.0	NW $\frac{1}{4}$ SW $\frac{1}{4}$	26.0
NE $\frac{1}{4}$ SE $\frac{1}{4}$	34.3	Lot 3	45.0
SE $\frac{1}{4}$ SE $\frac{1}{4}$	29.9	NE $\frac{1}{4}$ SE $\frac{1}{4}$	2.0
Section 4		NW $\frac{1}{4}$ SE $\frac{1}{4}$	5.0
NW $\frac{1}{4}$ NW $\frac{1}{4}$	16.0	Lot 4	31.0
SW $\frac{1}{4}$ NW $\frac{1}{4}$	24.5	Lot 1	18.4
NW $\frac{1}{4}$ SW $\frac{1}{4}$	16.0	Lot 2	4.4
SW $\frac{1}{4}$ SW $\frac{1}{4}$	20.0	Section 19	
Section 10		NE $\frac{1}{4}$ NE $\frac{1}{4}$	5.5
SW $\frac{1}{4}$ SE $\frac{1}{4}$	3.6	SW $\frac{1}{4}$ NE $\frac{1}{4}$	1.3
SE $\frac{1}{4}$ SE $\frac{1}{4}$	30.0	SE $\frac{1}{4}$ NE $\frac{1}{4}$	28.0
Section 9		NE $\frac{1}{4}$ SW $\frac{1}{4}$	16.3
NW $\frac{1}{4}$ NW $\frac{1}{4}$	8.3	NW $\frac{1}{4}$ SW $\frac{1}{4}$	1.2
SW $\frac{1}{4}$ NW $\frac{1}{4}$	24.0	Lot 1	23.0
NE $\frac{1}{4}$ SW $\frac{1}{4}$	7.4	Lot 2	4.0
NW $\frac{1}{4}$ SW $\frac{1}{4}$	36.5	Lot 3	40.2
SW $\frac{1}{4}$ SW $\frac{1}{4}$	10.0	Lot 4	45.5
SE $\frac{1}{4}$ SW $\frac{1}{4}$	34.3	Section 20	
SW $\frac{1}{4}$ SE $\frac{1}{4}$	25.0	Lot 1	9.6
Section 15		Lot 2	1.0
NE $\frac{1}{4}$ NE $\frac{1}{4}$	37.0	Lot 4	5.0
NW $\frac{1}{4}$ NE $\frac{1}{4}$	16.0	Lot 5	3.0
SW $\frac{1}{4}$ NE $\frac{1}{4}$	24.0	Lot 6	4.0
SE $\frac{1}{4}$ NE $\frac{1}{4}$	32.0	D.L.C.	97.0
SW $\frac{1}{4}$ SW $\frac{1}{4}$	4.0	Lot 7	5.0
SE $\frac{1}{4}$ SW $\frac{1}{4}$	23.0	Lot 11	8.0
NE $\frac{1}{4}$ SE $\frac{1}{4}$	35.9	Section 21	
NW $\frac{1}{4}$ SE $\frac{1}{4}$	35.2	NW $\frac{1}{4}$ NE $\frac{1}{4}$	10.0
SW $\frac{1}{4}$ SE $\frac{1}{4}$	36.4	NE $\frac{1}{4}$ NW $\frac{1}{4}$	39.0
SE $\frac{1}{4}$ SE $\frac{1}{4}$	30.0	Lot 1	14.5

Lot 2	3.7
SE 1/4 NW 1/4	30.0
Lot 3	5.5
Section 22	
NW 1/4 NE 1/4	5.0
NE 1/4 NW 1/4	11.0
NW 1/4 NW 1/4	31.0
Section 29	
NE 1/4 NE 1/4	27.8
NW 1/4 NE 1/4	33.7
SW 1/4 NE 1/4	2.2
NE 1/4 NW 1/4	21.7
NW 1/4 SW 1/4	3.4
SE 1/4 SW 1/4	5.4
Section 30	
<u>Twp. 36 S., R. 4 W., W.M.</u>	
NW 1/4 SW 1/4	9.5
SW 1/4 SW 1/4	37.6
SE 1/4 SW 1/4	24.0
Section 5	
SE 1/4 NE 1/4	6.1
NE 1/4 SE 1/4	36.2
NW 1/4 SE 1/4	35.4
SW 1/4 SE 1/4	29.5
SE 1/4 SE 1/4	35.0
Section 6	
NE 1/4 NE 1/4	40.0
NW 1/4 NE 1/4	38.9
SW 1/4 NE 1/4	40.0
SE 1/4 NE 1/4	40.0
NE 1/4 NW 1/4	8.1
SE 1/4 NW 1/4	3.9
SE 1/4 SW 1/4	6.0
NE 1/4 SE 1/4	40.0
NW 1/4 SE 1/4	40.0
SW 1/4 SE 1/4	35.0
SE 1/4 SE 1/4	40.0
Section 7	
NE 1/4 NE 1/4	2.6
NW 1/4 NE 1/4	19.1
SW 1/4 NE 1/4	29.3
SE 1/4 NE 1/4	32.1
NE 1/4 NW 1/4	40.0
NW 1/4 NW 1/4	40.0
SW 1/4 NW 1/4	40.0
SE 1/4 NW 1/4	40.2
SW 1/4	160.0
SE 1/4	160.0
Section 8	
SW 1/4 NW 1/4	1.0
NW 1/4 SW 1/4	7.0
SW 1/4 SW 1/4	19.0
Section 9	
SW 1/4 NW 1/4	4.5
NE 1/4 SW 1/4	11.0
NW 1/4 SW 1/4	29.4
SW 1/4 SW 1/4	39.6
SE 1/4 SW 1/4	10.4
Section 15	
NE 1/4 NE 1/4	10.0
SW 1/4 NE 1/4	2.0
SE 1/4 NE 1/4	25.0
NE 1/4 NW 1/4	15.0
NW 1/4 NW 1/4	35.0
SW 1/4 NW 1/4	40.0
SE 1/4 NW 1/4	33.0
N 1/4 SW 1/4	30.0
SW 1/4 SW 1/4	34.8
SE 1/4 SW 1/4	40.0
NE 1/4 SE 1/4	40.0
NW 1/4 SE 1/4	34.0
SW 1/4 SE 1/4	40.0
SE 1/4 SE 1/4	37.4

Section 16	
NE 1/4	160.0
SE 1/4 NW 1/4	21.0
NE 1/4 SW 1/4	31.5
SE 1/4 SW 1/4	30.0
N 1/4 SE 1/4	80.0
SW 1/4 SE 1/4	36.0
SE 1/4 SE 1/4	36.5
Section 17	
NE 1/4 NW 1/4	15.0
NW 1/4 NW 1/4	30.0
SW 1/4 NW 1/4	40.0
SE 1/4 NW 1/4	12.0
NE 1/4 SW 1/4	10.0
SW 1/4 SW 1/4	40.0
SE 1/4 SW 1/4	40.0
Section 18	
Lot 2	30.5
Lot 3	49.5
Lot 4	54.0
Lot 5	38.0
Lot 6	43.0
NE 1/4 SW 1/4	37.0
SW 1/4 SW 1/4	43.1
SE 1/4 SW 1/4	40.0
Lot 7	41.7
NE 1/4 SE 1/4	35.0
NW 1/4 SE 1/4	37.2
SW 1/4 SE 1/4	40.4
SE 1/4 SE 1/4	13.3
Section 19	
Lot 1	49.3
Lot 2	19.1
Lot 3	30.0
Lot 4	10.0
Lot 5	39.3
Lot 6	25.4
Lot 7	40.0
NE 1/4 NE 1/4	40.0
Lot 9	40.2
NE 1/4 SW 1/4	39.9
NW 1/4 SW 1/4	25.9
SW 1/4 SW 1/4	24.9
SE 1/4 SW 1/4	38.4
SW 1/4 SE 1/4	38.7
Lot 8	53.0
Section 20	
NE 1/4 NE 1/4	37.7
NW 1/4 NE 1/4	37.0
Lot 2	48.3
Lot 1	33.2
NE 1/4 NW 1/4	33.6
NW 1/4 NW 1/4	34.7
SW 1/4 NW 1/4	40.1
SE 1/4 NW 1/4	40.1
Lot 3	23.5
Lot 4	24.7
Lot 5	40.9
Lot 6	40.2
Lot 8	7.9
Lot 7	14.0
SW 1/4 SE 1/4	16.2
Section 21	
Lot 1	12.3
Lot 2	10.5
Lot 7	33.3
Lot 8	45.3
Lot 3	20.0
NW 1/4 NW 1/4	36.8
Lot 4	24.4
NE 1/4 SW 1/4	25.5
Lot 5	1.6
NE 1/4 SE 1/4	22.8
NW 1/4 SE 1/4	22.0

Section 22	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	12.2
Lot 3	30.3
Lot 2	41.5
SE $\frac{1}{4}$ NE $\frac{1}{4}$	23.5
Lot 4	16.2
Lot 5	5.3
Lot 6	48.1
Lot 7	35.0
Lot 8	25.6
NW $\frac{1}{4}$ SW $\frac{1}{4}$	13.5
Lot 1	19.0
Lot 9	7.0
Lot 10	6.1

Section 23	
Lot 2	21.6
SE $\frac{1}{4}$ NE $\frac{1}{4}$	9.0
SW $\frac{1}{4}$ W $\frac{1}{4}$	12.4
SE $\frac{1}{4}$ W $\frac{1}{4}$	18.1
Lot 3	12.7
Lot 4	33.0
Lot 5	5.2
Lot 6	17.9
Lot 1	20.0
Lot 7	5.1
SW $\frac{1}{4}$ SE $\frac{1}{4}$	22.5
Lot 8	6.0

Section 24	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	1.0
NW $\frac{1}{4}$ NE $\frac{1}{4}$	32.0
SW $\frac{1}{4}$ NE $\frac{1}{4}$	10.0
NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.0
NW $\frac{1}{4}$ NW $\frac{1}{4}$	35.3
SW $\frac{1}{4}$ NW $\frac{1}{4}$	33.0
SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.0
NE $\frac{1}{4}$ SW $\frac{1}{4}$	39.0
NW $\frac{1}{4}$ SW $\frac{1}{4}$	24.0
SW $\frac{1}{4}$ SW $\frac{1}{4}$	38.0
SE $\frac{1}{4}$ SW $\frac{1}{4}$	37.0

Section 28	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	39.2
NW $\frac{1}{4}$ NE $\frac{1}{4}$	39.5
SW $\frac{1}{4}$ NE $\frac{1}{4}$	34.1
SE $\frac{1}{4}$ NE $\frac{1}{4}$	29.3
NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.1
NW $\frac{1}{4}$ NW $\frac{1}{4}$	28.9
SW $\frac{1}{4}$ NW $\frac{1}{4}$	1.0
SE $\frac{1}{4}$ NW $\frac{1}{4}$	9.0
NE $\frac{1}{4}$ SE $\frac{1}{4}$	20.0
NW $\frac{1}{4}$ SE $\frac{1}{4}$	1.0
SW $\frac{1}{4}$ SE $\frac{1}{4}$	20.0
SE $\frac{1}{4}$ SE $\frac{1}{4}$	28.0

Section 29	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	21.5
NW $\frac{1}{4}$ NE $\frac{1}{4}$	40.0
SW $\frac{1}{4}$ NE $\frac{1}{4}$	30.0
SE $\frac{1}{4}$ NE $\frac{1}{4}$	25.0
NE $\frac{1}{4}$ W $\frac{1}{4}$	40.0
NW $\frac{1}{4}$ NW $\frac{1}{4}$	44.5
SW $\frac{1}{4}$ NW $\frac{1}{4}$	44.4
SE $\frac{1}{4}$ NW $\frac{1}{4}$	20.0
NE $\frac{1}{4}$ SW $\frac{1}{4}$	30.0
NW $\frac{1}{4}$ SW $\frac{1}{4}$	39.0
SW $\frac{1}{4}$ SW $\frac{1}{4}$	37.0

Section 30	
NW $\frac{1}{4}$ W $\frac{1}{4}$	36.0
SW $\frac{1}{4}$ W $\frac{1}{4}$	47.0
SE $\frac{1}{4}$ W $\frac{1}{4}$	3.4
NE $\frac{1}{4}$ SW $\frac{1}{4}$	14.0
NW $\frac{1}{4}$ SW $\frac{1}{4}$	47.1
SW $\frac{1}{4}$ SW $\frac{1}{4}$	45.0
SE $\frac{1}{4}$ SW $\frac{1}{4}$	28.0

Section 31	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	40.0
NW $\frac{1}{4}$ NE $\frac{1}{4}$	35.0
S $\frac{1}{2}$ NE $\frac{1}{4}$	80.0
NE $\frac{1}{4}$ NW $\frac{1}{4}$	11.0
SW $\frac{1}{4}$ W $\frac{1}{4}$	5.0
SE $\frac{1}{4}$ NW $\frac{1}{4}$	39.0
NE $\frac{1}{4}$ SW $\frac{1}{4}$	16.0
NW $\frac{1}{4}$ SW $\frac{1}{4}$	2.0
SE $\frac{1}{4}$ SW $\frac{1}{4}$	2.0
NE $\frac{1}{4}$ SE $\frac{1}{4}$	37.0
NW $\frac{1}{4}$ SE $\frac{1}{4}$	40.0
SW $\frac{1}{4}$ SE $\frac{1}{4}$	14.0
SE $\frac{1}{4}$ SE $\frac{1}{4}$	12.0

Section 32	
NW $\frac{1}{4}$ NE $\frac{1}{4}$	4.1
N $\frac{1}{2}$ W $\frac{1}{4}$	80.0
SW $\frac{1}{4}$ NW $\frac{1}{4}$	35.2
SE $\frac{1}{4}$ NW $\frac{1}{4}$	6.5
NW $\frac{1}{4}$ SW $\frac{1}{4}$	19.3
SW $\frac{1}{4}$ SW $\frac{1}{4}$	2.4

Section 33	
Twp. 36 S., R. 5 W., W.M.	
SW $\frac{1}{4}$ SE $\frac{1}{4}$	6.4
SE $\frac{1}{4}$ SE $\frac{1}{4}$	34.5

Section 10	
SW $\frac{1}{4}$ SW $\frac{1}{4}$	16.8

Section 11	
NE $\frac{1}{4}$ NE $\frac{1}{4}$	1.1
S $\frac{1}{2}$ NE $\frac{1}{4}$	80.0
NE $\frac{1}{4}$ NW $\frac{1}{4}$	1.0
NW $\frac{1}{4}$ NW $\frac{1}{4}$	4.2
Lot 2	14.0
SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.0
NE $\frac{1}{4}$ SW $\frac{1}{4}$	40.0
Lot 3	14.0
Lot 4	38.4
SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.0
SE $\frac{1}{4}$	160.0
Part D.L.C.#37	52.0

Section 13	
Lot 12	6.0
Lot 11	9.7
Lot 10	13.3
NW $\frac{1}{4}$ NW $\frac{1}{4}$	4.2
Lot 5	49.7
Lot 6	42.3
Lot 7	16.4
Lot 2	4.6
Lot 1	31.9
Part D.L.C.#37	234.0

Section 14	
Lot 5	20.0
Lot 6	38.1
NE $\frac{1}{4}$ NE $\frac{1}{4}$	17.9
NW $\frac{1}{4}$ NE $\frac{1}{4}$	6.0

Section 15	
SE $\frac{1}{4}$ SW $\frac{1}{4}$	30.0
NE $\frac{1}{4}$ SE $\frac{1}{4}$	40.0
NW $\frac{1}{4}$ SE $\frac{1}{4}$	7.1
SW $\frac{1}{4}$ SE $\frac{1}{4}$	3.6
SE $\frac{1}{4}$ SE $\frac{1}{4}$	20.7

Section 20	
Lot 8	20.4
Lot 9	27.8
SE $\frac{1}{4}$ NE $\frac{1}{4}$	40.3
Lot 11	18.4
Lot 10	18.4
NE $\frac{1}{4}$ SW $\frac{1}{4}$	40.7
NW $\frac{1}{4}$ SW $\frac{1}{4}$	40.7
SW $\frac{1}{4}$ SW $\frac{1}{4}$	38.9
SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.7

NE 1/4 SE 1/4	40.7
NW 1/4 SE 1/4	39.7
SW 1/4 SE 1/4	39.7
SE 1/4 SE 1/4	40.7

Section 21

NE 1/4 NE 1/4	39.3
NW 1/4 NE 1/4	39.7
SW 1/4 NE 1/4	40.0
SE 1/4 NE 1/4	34.2
Lot 1	44.0
Lot 2	23.0
SW 1/4 NW 1/4	39.7
SE 1/4 NW 1/4	39.4
NE 1/4 SW 1/4	39.3
NW 1/4 SW 1/4	40.3
SW 1/4 SW 1/4	40.3
SE 1/4 SW 1/4	40.3
NE 1/4 SE 1/4	39.5
NW 1/4 SE 1/4	39.1
SW 1/4 SE 1/4	37.3
SE 1/4 SE 1/4	39.5

Section 22

Lot 2	20.9
NW 1/4 NE 1/4	39.9
SW 1/4 NE 1/4	38.4
Lot 3	37.9
NE 1/4 NW 1/4	40.0
NW 1/4 NW 1/4	39.9
SW 1/4 NW 1/4	39.9
SE 1/4 NW 1/4	40.0
NE 1/4 SW 1/4	39.9
NW 1/4 SW 1/4	39.9
SW 1/4 SW 1/4	39.6
SE 1/4 SW 1/4	40.0
NE 1/4 SE 1/4	37.3
NW 1/4 SE 1/4	39.8
SE 1/4 SE 1/4	80.0

Section 23

NE 1/4 NE 1/4	39.6
NW 1/4 NE 1/4	39.8
SW 1/4 NE 1/4	29.9
SE 1/4 NE 1/4	30.1
NE 1/4 NW 1/4	40.0
Lot 4	46.9
Lot 5	18.0
Lot 3	25.9
Lot 6	40.9
NW 1/4 SW 1/4	40.2
SW 1/4 SW 1/4	36.5
SE 1/4 SW 1/4	37.1
Lot 8	35.5
Lot 7	37.4
SW 1/4 SE 1/4	29.9
SE 1/4 SE 1/4	33.1

Section 24

NE 1/4 NE 1/4	39.6
NW 1/4 NE 1/4	28.9
SW 1/4 NE 1/4	40.0
SE 1/4 NE 1/4	39.5
NE 1/4 NW 1/4	33.6
NW 1/4 NW 1/4	36.3
SW 1/4 NW 1/4	35.0
SE 1/4 NW 1/4	25.0
NE 1/4 SW 1/4	20.0
NW 1/4 SW 1/4	30.0
SW 1/4 SW 1/4	10.0
SE 1/4 SW 1/4	10.0
N 1/4 SE 1/4	80.0
SW 1/4 SE 1/4	40.0
SE 1/4 SE 1/4	38.9

Section 25

NE 1/4 NE 1/4	36.9
NW 1/4 NE 1/4	36.9
SW 1/4 NE 1/4	40.1
SE 1/4 NE 1/4	22.7
NE 1/4 NW 1/4	38.1
NW 1/4 NW 1/4	38.9
SW 1/4 NW 1/4	31.3
SE 1/4 NW 1/4	36.7
NE 1/4 SW 1/4	29.4
NW 1/4 SW 1/4	33.8
SW 1/4 SW 1/4	39.6
SE 1/4 SW 1/4	37.8
NE 1/4 SE 1/4	40.2
NW 1/4 SE 1/4	32.8
SW 1/4 SE 1/4	27.8
SE 1/4 SE 1/4	30.5

Section 26

NE 1/4 NE 1/4	39.7
NW 1/4 NE 1/4	21.0
SW 1/4 NE 1/4	35.0
SE 1/4 NE 1/4	40.0
NE 1/4 NW 1/4	40.0
NW 1/4 NW 1/4	35.4
SW 1/4 NW 1/4	3.3
SE 1/4 NW 1/4	10.0
SE 1/4 SW 1/4	6.8
NE 1/4 SE 1/4	40.0
NW 1/4 SE 1/4	39.0
SW 1/4 SE 1/4	39.7
SE 1/4 SE 1/4	39.0

Section 27

NE 1/4 NE 1/4	39.8
NW 1/4 NE 1/4	40.5
SW 1/4 NE 1/4	21.8
SE 1/4 NE 1/4	16.1
NE 1/4 NW 1/4	40.6
NW 1/4 NW 1/4	23.1
SW 1/4 NW 1/4	16.4
SE 1/4 NW 1/4	40.2
NE 1/4 SW 1/4	14.1
NW 1/4 SW 1/4	7.4
NE 1/4 SE 1/4	20.0
NW 1/4 SE 1/4	20.0

Section 28

NE 1/4 NE 1/4	12.4
NW 1/4 NE 1/4	28.1
SW 1/4 NE 1/4	29.2
SE 1/4 NE 1/4	18.4
NE 1/4 NW 1/4	28.1
SE 1/4 NW 1/4	20.2
NE 1/4 SW 1/4	37.8
NW 1/4 SW 1/4	10.4
SW 1/4 SW 1/4	31.5
SE 1/4 SW 1/4	40.5
NE 1/4 SE 1/4	28.7
NW 1/4 SE 1/4	40.5
SW 1/4 SE 1/4	40.3
SE 1/4 SE 1/4	6.4

Section 29

SE 1/4 SE 1/4	4.1
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Section 30

NE 1/4 NE 1/4	37.5
NW 1/4 NE 1/4	14.9
SW 1/4 NE 1/4	6.2
SE 1/4 NE 1/4	11.6

Section 31

NE 1/4 NE 1/4	22.7
NW 1/4 NE 1/4	40.4
SW 1/4 NE 1/4	40.4
SE 1/4 NE 1/4	40.5

NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.4
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.0
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	39.4
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.5
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	24.9
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	19.4
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	32.7
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	18.3
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	36.0
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	35.9
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	40.0
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	39.6

Section 32

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	4.1
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	32.0
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	38.4
SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	12.3
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	1.3
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	39.2
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	27.2
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	39.5
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	39.9
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	38.8
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	37.1
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	29.5
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	39.9
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	35.1
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	31.4

Section 33

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	40.5
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	37.1
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	37.3
SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	40.5
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	33.1
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	33.5
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	11.7
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	4.0
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	33.2
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	8.5
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	40.4
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	38.2
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	13.9
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	35.0

Section 34

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	21.2
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	40.0
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	40.0
SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	34.0
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.1
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.1
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	38.0
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	31.3
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	15.8
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	35.5
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	18.2
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	32.5
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	29.9
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	6.1
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	9.2

Section 35

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	38.9
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	30.0
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	35.0
SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	39.1
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	2.5
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	31.0
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	28.6
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	38.6
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	39.0
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	38.7
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	39.5

Section 36

Twp. 36 S. R. 6 W., W.M.	
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	14.2
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	9.5

Section 6

SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	4.0
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Section 7

NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	9.0
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Section 18

Twp. 37 S., R. 5 W., W.M.	
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NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	8.0
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	33.5
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	10.3
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	24.9
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	35.7
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	37.0
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	9.0
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	38.0
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	40.0
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	1.0
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	10.0
SW- $\frac{1}{4}$ SE- $\frac{1}{4}$	40.0
SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	31.0

Section 1

SE- $\frac{1}{4}$ SE- $\frac{1}{4}$	2.0
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Section 2

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	1.2
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	11.0
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	33.0
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	38.9
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.0
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	34.7
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	6.6
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	14.2

Section 3

NE- $\frac{1}{4}$	160.0
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	39.4
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	39.8
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.0
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	20.0
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	11.1
NW- $\frac{1}{4}$ SE- $\frac{1}{4}$	14.9

Section 4

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	24.5
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	39.8
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	15.4
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.5
NW- $\frac{1}{4}$ NW- $\frac{1}{4}$	37.8
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	8.9
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	23.3

Section 5

SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	2.0
NE- $\frac{1}{4}$ SE- $\frac{1}{4}$	2.0

Section 10

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	37.0
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	20.0
SE- $\frac{1}{4}$ NE- $\frac{1}{4}$	80.0
NE- $\frac{1}{4}$ NW- $\frac{1}{4}$	29.0
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	18.0
SW- $\frac{1}{4}$ NW- $\frac{1}{4}$	30.0
SE- $\frac{1}{4}$ NW- $\frac{1}{4}$	40.0
NE- $\frac{1}{4}$ SW- $\frac{1}{4}$	40.0
NW- $\frac{1}{4}$ SW- $\frac{1}{4}$	30.0
SW- $\frac{1}{4}$ SW- $\frac{1}{4}$	2.0
SE- $\frac{1}{4}$ SW- $\frac{1}{4}$	32.0
SE- $\frac{1}{4}$	160.0

Section 11

NE- $\frac{1}{4}$ NE- $\frac{1}{4}$	12.0
NW- $\frac{1}{4}$ NE- $\frac{1}{4}$	40.0
SW- $\frac{1}{4}$ NE- $\frac{1}{4}$	22.0
NW- $\frac{1}{4}$	160.0
N- $\frac{1}{4}$ SW- $\frac{1}{4}$	80.0

SW-SW	40.0
SE-SW	37.0
NE-SE	2.0
NW-SE	11.0
SW-SE	31.0
SE-SE	23.0

Section 12

NE-NE	39.0
NW-NE	39.0
SW-NE	40.0
SE-NE	38.0
NE-NW	38.0
NW-NW	40.0
S-NW	80.0
NE-SW	39.0
NW-SW	40.0
SW-SW	40.0
SE-SW	38.0
NW-SE	5.0

Section 13

NE-NE	40.0
NW-NE	40.0
SW-NE	35.0
SE-NE	40.0
NE-NW	38.0
NW-NW	32.0
SW-NW	10.0
SE-NW	2.0
NE-SE	40.0
NW-SE	15.0
SE-SE	23.0

Section 14

NE-NE	13.0
SW-NE	2.0
SE-NE	37.0

Section 15

NW-SE	3.0
SW-SE	36.0
NE-NW	39.0
NW-NW	27.0
SW-NW	20.0
SE-NW	40.0
NE-SW	32.0
NW-SW	4.0
SE-SW	4.0
NE-SE	11.0
NW-SE	39.0
SW-SE	7.0

Section 24

Twp. 37 S., R. 6 W., W. M.

TOTAL ACREAGE 18,392.6

10. The estimated cost of the proposed works is \$5000.00
11. Construction work already begun.
12. Construction will be completed on or before Jan. 1, 1934.
13. The water will be completely applied to its proposed use on or before Oct. 1, 1934.

GRANTS PASS IRRIGATION DISTRICT

By Forbes Fosbery

Attest: H. D. Willis, Secy.

Attest:
 Blanche Fletcher, Grants Pass, Ore.
 Lincoln Savage, Grants Pass, Ore.

DESCRIPTION OF SAVAGE RAPIDS DAM AND TURBINES AND PUMP INSTALLATIONS.

All diversions from Rogue River are made at the Savage Rapids Dam.

This dam is a Multiple Arch and gravity type with 25 feet spans with the power house on the north side of the river and the gravity canal intake on the south side.

The south 9 panels being of less height than the balance of the dam, were constructed as a gravity section. The length of the dam proper is 400 feet, and the total length of the structure is 500 feet including 11 feet for canal intake, 41 feet for power house, 12 feet for fishway and 36 feet for cutoff walls at both ends. The height of the dam is 24 feet above the down stream pavement and this can be increased 10 feet by the movable crest of the dam.

It is constructed as an overflow structure, the entire length being designed as a spillway which will permit the water to pass over during all stages of the flow. Within each of the panels is placed a segmental gate, so constructed that when the gate is down the river flow will pass over the crest of the dam and the gates as well. The gates can be raised to maintain the water level above the dam at an elevation of ten feet higher than when the gates are in their lowest position. The gates are operated by hydraulic pressure.

The power plant which operates the pump consists of two horizontal double-runner turbines, operating under a head of 28 feet and requiring, theoretically, a maximum flow of 660 second feet. One turbine is direct connected to a 30 inch bottom suction centrifugal pump with a theoretical capacity of 67 second feet against a head of 90 feet. This pump discharges through a 42" diameter pipe into the South High Line Canal. The other turbine drives two 24" centrifugal pumps connected in series and with a theoretical capacity of 40 second feet against a head of 150 feet. These pumps discharge into the Tokay Canal through a 42" diameter pipe.

The diversion for the main canal is by gravity directly from the dam.

STATE OF OREGON)
) ss
County of Marion)

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before December 8, 1928.

WITNESS my hand this 29th day of October 1928.

Rhea Luper
State Engineer
W

STATE OF OREGON)
) ss.
County of Marion)

This is to certify that I have examined the foregoing application and do hereby grant the same, subject to 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 230.0 cubic feet per second, or its equivalent in case of rotation with other water users, from Rogue River and the tributaries named in the foregoing application.

The use to which this water is to be applied is Irrigation.

If for irrigation, this appropriation shall be limited to 1/80th of one cubic foot per second or its equivalent for each acre irrigated and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The priority date of this permit is September 29, 1916 for diversions from Rogue River and Feb. 27, 1922 for diversions from tributary streams.

Actual construction work shall begin on or before Already begun and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1933. ^{Extended to Oct. 1, 1949}
^{Extended to Oct. 1, 1934} ^{Extended to Oct. 1, 1951} ^{Extended to Oct. 1, 1953} ^{Extended to Oct. 1, 1955}
^{Extended to Oct. 1, 1933} ^{Extended to Oct. 1, 1944}

Complete application of the water to the proposed use shall be made on or before October 1, 1933. ^{Extended to Oct. 1, 1949}
^{Extended to Oct. 1, 1934} ^{Extended to Oct. 1, 1951} ^{Extended to Oct. 1, 1953} ^{Extended to Oct. 1, 1955}
^{Extended to Oct. 1, 1933} ^{Extended to Oct. 1, 1944}

WITNESS my hand this 15th day of January, 1929.

Rhea Luper, State Engineer.

Amended
Application No. 5189

Permit No. 8853.

PERMIT
To Appropriate the Public
Waters of the State
of Oregon

This instrument was first
received in the office of
the State Engineer at Salem,
Oregon, on the 29th day of
Sept. 1916, at 8:30 o'clock
A.M.

Returned to applicant:

October 29, 1918.

Corrected application rec'd.

December 8, 1928.

Approved:

January 15, 1929
Recorded in book No. 29 of
Permits on page 8853.

Rhea Luper
State Engineer

Drainage Basin No. ___ Page ___

Fees Paid _____.