

3M-6-63
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MAY 29 1967
STATE ENGINEER
SALEM, OREGON

CERTIFICATE NO. 44217

* Reservoir Permit No. R 4988

Application for a Permit to Construct a Reservoir and to Store for Beneficial Use the Unappropriated Waters of the State of Oregon

I, City of The Dalles, Oregon (Name of Applicant)

of City Hall, The Dalles (Mailing Address)

State of Oregon, do hereby make application for a permit to construct the following described reservoir and to store the unappropriated waters of the State of Oregon, subject to existing rights.

If the applicant is a corporation, give date and place of incorporation
The Dalles, Oregon 1857

1. The name of the proposed reservoir is Crow Creek Reservoir

2. The name of the stream from which the reservoir is to be filled and the appropriation made is South Fork Mill Creek tributary of Mill Creek and Dog River tributary of East Fork Hood River (see remarks)

3. The amount of water to be stored is 965 955- acre feet.

4. The use to be made of the impounded water is municipal water supply
(Irrigation, power, domestic supply, etc.)

5. The location of the proposed reservoir will be in Sec. 20
(Give sections or townships to be submerged)
Tp. 1 South, R. 11 East, W.M., in the county of Wasco

(a) State whether situated in channel of running stream and give character of material at outlet
The dam is situated in the channel of South Fork Mill Creek, a running stream. The outlet is in a creek bed of boulders, cobbles, and gravels with a sandy clay matrix

(b) If not in channel of running stream, state how it is to be filled. If through a feed canal, give name and dimensions

6. The dam will be located in NE1/4 of NW1/4 and SE1/4 of SW1/4, Sec. 20 & 17 respectively
(Smallest legal subdivision)
Tp. 1 South, R. 11 East, W.M. The maximum height will be 100 feet above stream bed or ground
surface on center line of dam. The length on top will be 800 feet; length on bottom 50 feet; width on top 20 feet; slope on front or water side approx. 3 to 1; slope on back approx. 2 to 1; height of dam above water line when full 8 feet. (Final plans will show this information accurately)
(Feet horizontal to 1 vertical) (Feet horizontal to 1 vertical)

* A different form of application should be used for the appropriation of stored water to beneficial use. Such forms can be secured without charge, together with instructions, by addressing the State Engineer, Salem, Oregon 97310.

7. The construction of dam, the material of which it is to be built, and method of protection from waves are as follows: The dam will be built as a rock fill dam consisting of a central core of impervious sandy clayey silt, a filter of more pervious material on both sides of the core and a rock shell both up- and downstream of core of well-graded (rock fragments of approximately 12" diameter will provide for protection from waves). Shell material to be obtained from spillway excavation and borrow areas as required.

8. The location of wasteway with dimensions are as follows: The spillway will be cut in rock through the south abutment. The spillway will be 50 feet wide and the spillway crest will be 8 feet below the top of the dam.

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: The outlet will be a 30-inch diameter Class V reinforced concrete pipe, bedded in concrete, approximately 550 feet in length, located through the dam. (All dams across natural stream channels must be provided with an outlet conduit, of such capacity and location to pass the normal flow of the stream at any time)

10. The area submerged by the proposed reservoir, when full, will be 31 acres, with a maximum depth of water of 80 feet; and approximate mean depth of water 29 feet.

11. The estimated cost of the proposed work is \$ 535,000.

12. Construction work will begin on or before 1 October 1967

13. Construction work will be completed on or before 1 December 1968

John H. Skivington M.D. (Signature of applicant) Mayor, City of The Dalles, Oregon

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before, 19

WITNESS my hand this day of, 19

STATE ENGINEER By ASSISTANT

Remarks: The drainage area is 12.5 sq. mi. in area. Slopes are steep, with thin, porous rocky soil. The vegetation varies from grass and brush to small timber. The sources of embankment material are relatively near to the dam-rocks from the spillway excavation can be used for the shell.

The spillway cut in rock in the south abutment is designed to discharge 2500 cfs (200 cfs per sq. mi.) with a head of 6 feet and 3750 cfs before overtopping of the dam occurs. The maximum recorded flood on Mill Creek (December 1964) produced a flood of 44 cfs per square mile.

Water will be stored during the winter months from October or November to April each year.

The water from Crow Creek will be released during the summer and fall to supplement the normal creek flow. The water will flow down the South Fork of Mill Creek and enter the existing diversion structure at Wicks Reservoir. (Approximately 0.9 mile upstream from the confluence of the North and South Forks of Mill Creek) Water will be stored from approximately 1 October to 1 April each year. During the winter months, of a dry winter, water may be diverted from Dog River through the existing diversion and pipeline into the Crow Creek Reservoir.

STATE OF OREGON, }
County of Marion, } ss.

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 construction of Crow Creek Reservoir and water to be diverted for storage from South Fork Mill Creek when available and any deficiency in the available supply from South Fork Mill Creek to be made up by diversion from Dog River to be appropriated under application No. 43668, permit No. 32479 for municipal and the dam shall be constructed under the supervision of a registered professional engineer.

The right hereunder shall be limited to the storage of 955.0 acre feet.

The priority date of this permit is May 29, 1967

Actual construction work shall begin on or before November 21, 1968 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1969.

WITNESS my hand this 21st day of November, 1967.

[Signature]

STATE ENGINEER

OK.
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Application No. R-43667

Reservoir Permit No. R 4988

PERMIT

To construct a reservoir and store for beneficial use the unappropriated 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 May, 1967 at 8:00 o'clock A. M.

Returned to applicant:

Approved:

..... November 21, 1967

Recorded in Book No. of

Reservoirs, on Page R 4988

..... CHRIS L. WHEELER
State Engineer

Drainage Basin No. 4 page 6F
Fees \$2855

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