Permit—SM—4-48

Permit No. 17358

"CERTIFICATE NO. 68537"

*** APPLICATION FOR PERMIT**

To Appropriate the Public Waters of the State of Oregon

I, CITY OF EUGENE, By Eugene Water Board
(Name of applicant)

of 1116 Willamette Street, Eugene, Lane County,
(Mailing address)

State of Oregon, *do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:*

If the applicant is a corporation, give date and place of incorporation A municipal corporation. City of Eugene incorporated 1862.

1. *The source of the proposed appropriation is* McKenzie River
(Name of stream)
, *a tributary of* Willamette River System

2. *The amount of water which the applicant intends to apply to beneficial use is* 90 *cubic feet per second.* in addition to present use of 27 second feet.
(If water is to be used from more than one source, give quantity from each)

****3.** *The use to which the water is to be applied is* Municipal water supply for City of Eugene,
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)
Oregon, and vicinity, including also City of Springfield and vicinity.

4. *The point of diversion is located* 560 *ft.* North (N. or S.) *and* 512 *ft.* East (E. or W.) *from the* S. W. *corner of* Sec. 20 of T. 17 S., R. 2 W. of W. M. (Corner common to Sections 19, 20, 29 and 30, T. 17 S., R. 2 W., W. M.)
(Section or subdivision)

(If preferable, give distance and bearing to section corner)

(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the SW¼ of the SW¼ *of Sec.* 20, *Tp.* 17 S., (N. or S.),
(Give smallest legal subdivision)
R. 2 W., (E. or W.), *W. M., in the county of* Lane.

5. *The* Main pipe line is *to be* 34,000 feet
(Main ditch, canal or pipe line) (Miles or feet)
in length, terminating in the S.E. ¼ of S.E.¼ of Sec. 30 and S.E. ¼ of Sec. 32, Tp. 17 S. R. 3 W. of W.M.
(Smallest legal subdivision) (N. or S.)
R. In the Northeasterly edge of the City of Eugene., (E. or W.), *W. M., the proposed location being shown throughout on the accompanying map.*

DESCRIPTION OF WORKS

Diversion Works—

6. *(a) Height of dam* No Diversion Dam in River. A pump house on solid rock close to bank of river, with short intake section from river to pumps, through screens. *feet, length on top* ..... *feet, length at bottom* ..... *feet; material to be used and character of construction*
(Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate Timber stop logs in the intake section.
(Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Water is to be pumped from river to treatment plant on nearby hill. To pump it will require the equivalent of four 13000 gallon per minute electrically driven pumps working against a total head of approximately 150 feet. A total of 2500 H.P. or four 600 H.P. motors needed.
(Size and type of pump) (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Canal System or Pipe Line— No canal. Only short intake section from river to pump house is to be used.

7. *(a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line)* ..... *feet; width on bottom* ..... *feet; depth of water* ..... *feet; grade* ..... *feet fall per one thousand feet.*

(b) At ..... *miles from headgate: width on top (at water line)* ..... *feet; width on bottom* ..... *feet; depth of water* ..... *feet; grade* ..... *feet fall per one thousand feet.*

(c) Length of pipe, 34,000 *ft.; size at intake,* 45 *in.; size at* 1,600 *ft. from intake* 42 *in.; size at place of use* 42 *in.; difference in elevation between intake and place of use,* 26 *ft. Is grade uniform?* No *Estimated capacity,* 117 *sec. ft.*

8. *Location of area to be ~~irrigated~~ served, or place of use* City of Eugene and vicinity, Springfield etc.

Township	Range	Section	Forty-acre Tract	Number Acres To Be Irrigated
(Item 8. Application No. 22037)				
		AREA TO BE SERVED BY CITY OF EUGENE (EUGENE WATER BOARD)		
Township 17, S.	R. 4 W.:	South One-half of Sec. 1, 2, 3, 4, 5 and 6. All of Secs. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36.		
Township 18, S.	R. 4 W.:	All of Secs. 1, 2, 3, 4, 5, 9, 10, 11, 12 and 13.		
Township 17, S.	R. 3 W.:	That part of Secs. 4, 5, 6, 8, 9, 10, 14, 15, 23, 24, South and West of the McKenzie River. All of Secs. 7, 16, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36.		
Township 18, S.,	R. 3 W.:	That part of Sec. 1 North of the Willamette River. All of Secs. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17 and 18. N½ of Sections 19, 20 and 21.		
Township 17 S.,	R. 2 W.:	That part of Sections 19, 20, 27, 28, 29 and 30 South and West of McKenzie River. All of Sections 31, 32, 33 and 34.		
Township 18 S.,	R. 2 W.:	That part of Sections 5, 6, 8, 9 and 10 North and East of Willamette River. All of Sections 3 and 4.		

(If more space required, attach separate sheet)

(a) Character of soil —

(b) Kind of crops raised —

Power or Mining Purposes—

9. *(a) Total amount of power to be developed* None *theoretical horsepower.*

(b) Quantity of water to be used for power None *sec. ft.*

(c) Total fall to be utilized — *feet.* (Head)

(d) The nature of the works by means of which the power is to be developed .....

(e) Such works to be located in — (Legal Subdivision) *of Sec.* ....., *Tp.* ..... (No. N. or S.), *R.* ..... (No. E. or W.), *W. M.*

(f) Is water to be returned to any stream? ..... (Yes or No)

(g) If so, name stream and locate point of return .....

....., *Sec.* ....., *Tp.* ..... (No. N. or S.), *R.* ..... (No. E. or W.), *W. M.*

(h) The use to which power is to be applied is .....

(i) The nature of the mines to be served .....

Municipal or Domestic Supply—

10. (a) To supply the ~~city~~ cities of Eugene and Springfield with surrounding water districts and territory in Lane *County, having a present population of* 40,000

(Name of)

and an estimated population of 60,000 *in 19*60.

(b) If for domestic use state number of families to be supplied .....

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $1,300,000.00

12. Construction work will begin on or before Spring of 1947

13. Construction work will be completed on or before July 1, 1950

14. The water will be completely applied to the proposed use on or before The first unit of 24 million gallons daily will be in use by July, 1950, and other units up to 75 million gallons daily will be added as needed to meet growth of territory served.

CITY OF EUGENE, BY EUGENE WATER BOARD, BY: (Sgd) R. B. Boals

(Signature of applicant)

General Supt.-Sec'y.

Remarks: The increase in demand on the Eugene Water System, due to growth in population and industry, has been so rapid during the last few years that it threatens to exhaust the present water appropriation many years before expected and even before additional needed water handling facilities can be provided.

A larger and more efficient water supply for the adjacent and growing City of Springfield is also being urged by its City Council and people.

The present raw water supply for Eugene is piped past the northern city limits of Springfield on its way to Eugene, and any new pipe lines will be laid along the same general route. It seems obvious, therefore, that a combination of the two systems in so far as the water supply, the pumping plants, the treatment and main transmission lines are concerned, should prove to be practicable and efficient.

It is the purpose of this filing, therefore, to cover enough water for the combined uses outlined, not only for the immediate future but for as far into the more distant future as it seems practicable to outline a development of this nature.

Water is to be taken from the McKenzie River by pumping to a filtration plant on a nearby hill, where, after treatment, it will be sent through transmission pipe mains to Springfield, Eugene and adjacent territory to be distributed to the consumers.

The site for the proposed pumping plant is the same as now used by the City of Eugene in pumping its present water supply, and will be combined therewith.

The present water use of the Eugene system, of about 27 second feet, will be ultimately combined with the proposed 90 second feet covered by this application, making a total of 117 second feet as the future use of the combined expanded system.

The accompanying map shows the approximate location of the proposed new pipe lines and the route of the existing line. The exact location of the new line will be determined after detailed surveys and careful study.

One 42"-45" line will be built at first and others when needed. Interconnections may be made with the present 30" main if found practicable. Connections for the Springfield and other services will be provided in the construction, in anticipation of the needs of these areas.

The terminal points at the Eugene end will be at two or three places.

The purpose of a number of terminal points is to provide several river crossings, in the interest of security as well as to introduce the treated water into two or more points in the City's system.

The capacity of the first unit of the new filtration plant will be 24 million gallons per day. Provisions are to be made for expanding it as needed to an ultimate capacity of approximately 74 million gallons daily.

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

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 ....., *194*....

WITNESS my hand this ..... *day of* ....., *194*....

.....

STATE ENGINEER

17358 c

Application No. 22037

Permit No. 17358

PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

Division No. ..... *District No.* .....

This instrument was first received in the office of the State Engineer at Salem, Oregon,

on the 15th *day of* October,

194 6 *at* 4:00 *o'clock* P. *M.*

Returned to applicant:

Corrected application received:

Approved:

December 31, 1946

Recorded in book No. 42 *of*

Permits on page 17358

CHAS. E. STRICKLIN
STATE ENGINEER

Drainage Basin No. 2 *Page* 23

Fees Paid $99.00

PERMIT

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 EXISTING RIGHTS 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 90 *cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from* McKenzie River

The use to which this water is to be applied is Municipal

If for irrigation, this appropriation shall be limited to ..... *of one cubic foot per second*

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 October 15, 1946

Actual construction work shall begin on or before December 31, 1947 *and shall thereafter be prosecuted with reasonable diligence and be completed on or before*

October 1, 1948 Extended to Oct. 1, 1959 Extended to Oct. 1, 1969 Extended to Oct. 1, 1979 Extended to Oct. 1, 1984
Extended to Oct. 1, 1950

Complete application of the water to the proposed use shall be made on or before

October 1, 1949 Extended to Oct. 1, 1959 Extended to Oct. 1, 1969 Extended to Oct. 1, 1979 Extended to Oct. 1, 1984
Extended to Oct. 1, 1950

WITNESS my hand this 31st *day of* December, *1946*

CHAS. E. STRICKLIN
STATE ENGINEER

Permits for power development are subject to the payment of annual fees as provided in sections 1 and 2, chapter 74, Oregon Laws 1933.