

3/29/1968

**OREGON STATE SANITARY
AUTHORITY MEETING
MATERIALS**



**State of Oregon
Department of
Environmental
Quality**

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AGENDA

State Sanitary Authority Meeting

10:00 a.m., March 29, 1968

Room 36, State Office Building, Portland

- A. Minutes - 124th Meeting, February 29, 1968
- B. Project Plans - February 1968
- C. Tax Credit Applications
 - 1) T-17 Weyerhaeuser Company, Springfield
 - 2) T-18 Weyerhaeuser Company, Springfield
 - 3) T-19 Weyerhaeuser Company, Springfield
 - 4) T-21 Crown Zellerbach Company, Wauna
 - 5) T-13 Rosboro Lumber Company, Springfield
- D. Temporary Waste Discharge Permits
 - 1) New Applications since the February 29, 1968 Meeting
 - 2) Extension of Expiration Date of Existing Temporary Permits
- E. Waste Discharge Permit for Mainline Foods
- F. Waste Discharge Permits - Industrial
 - 1) Klamath Tallow Company
 - 2) La Grande Concrete Pipe Co.
 - 3) Rogers Asphalt Paving Co. - Island City
 - 4) Rogers Walla Walla, Inc. - Athena
 - 5) Rogers Walla Walla, Inc. - Milton-Freewater
 - 6) Shippers Car Line - Portland
 - 7) Weyerhaeuser Company - Klamath Falls
- G. Waste Discharge Permits - Domestic - No Treatment
 - 1) Astoria
 - 2) Nehalem
 - 3) Reedsport
 - 4) Bandon
- H. Waste Discharge Permits - Domestic - Misc. Basins
 - 1) Ashland
 - 2) Medford
 - 3) Jacksonville
 - 4) Knoxtown Sanitary District
 - 5) Umatilla
 - 6) Rice Hill
 - 7) Pilot Rock
 - 8) Lake Owyhee Resort
- I. Waste Discharge Permits - Domestic - Main Stem Willamette River
 - 1) Springfield Utility Board
 - 2) Eugene
 - 3) Harrisburg
 - 4) Salem
 - 5) Newberg
 - 6) West Linn (Willamette)

- 7) West Linn (Bolton)
- 8) Society of Sisters of Holy Names (Marylhurst)
- 9) Portland (Tryon Creek)
- 10) Oak Lodge Sanitary District

J. Waste Discharge Permits - Domestic - Tualatin Basin

- 1) Cornelius
- 2) Tektronix (Domestic)
- 3) Upland Sanitary District
- 4) Sunset Valley Sanitary District
- 5) Oregon Regional Primate Research Center
- 6) Aloha Sanitary District
- 7) Hillsboro (Rock Creek)
- 8) Metzger Sanitary District
- 9) Tigard (Tigard Plant)
- 10) King City

K. Waste Discharge Permits - Domestic - Willamette Basin Tributaries

- 1) Oakridge
- 2) Creswell
- 3) Vira Corporation (Country Squire Motel)
- 4) Corvallis Mobile Home Park
- 5) Scio
- 6) Mill City
- 7) Stayton
- 8) Monmouth
- 9) Independence
- 10) Salem Development Co. (Illahe Hills)
- 11) Dallas
- 12) Willamina

L. Waste Discharge Permits - Domestic - Willamette Basin Tributaries

- 1) Housing Authority of Yamhill County
- 2) Lafayette
- 3) Dayton
- 4) Yamhill
- 5) Mt. Angel
- 6) Gervais
- 7) Woodburn
- 8) Molalla
- 9) Thunderbird Mobile Park
- 10) Gladstone
- 11) Happy Valley Mobile Home Park

M. Asphaltic Hot Mix Plants

N. Multnomah County Central Service District

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MINUTES OF THE 125th MEETING
of the
Oregon State Sanitary Authority
March 29, 1968

The 125th meeting of the Oregon State Sanitary Authority was called to order by the Chairman at 10:10 a.m., March 29, 1968, in Room 36, State Office Building, Portland Oregon. Members present were John D. Mosser, Chairman; B.A. McPhillips, Edward C. Harms, Jr., and Storrs Waterman. Mr. Herman P. Meierjurgan was absent due to a prior commitment.

Participating staff members present were: Kenneth H. Spies, Secretary; Arnold Silver, Legal Counsel; Ely J. Weathersbee, Deputy State Sanitary Engineer; Harold M. Patterson, Assistant Chief Engineer; Edgar R. Lynd, Supervisor, Municipal Waste Treatment Program; Lloyd O. Cox, Supervisor Industrial Waste Control Program; Harold L. Sawyer, Supervisor, Waste Discharge Permit Program; Fredric A. Skirvin, Associate Sanitary Engineer; Joseph A Jensen, Assistant Chief Sanitary Engineer; Fred M. Bolton and Leo L. Baton, District Engineers.

MINUTES

It was MOVED by Mr. Mosser, seconded by Mr. Harms, and carried that the minutes of the February 29, 1967 meeting be approved as prepared.

PROJECT PLANS

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the actions taken by the staff on the following 13 sets of project plans for water pollution control and 9 projects for air quality control for the month of February 1968, be approved.

Water Pollution Control

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
2/5/68	Pendleton	Sewers- Youngs 2nd Addn.	Prov. app.
2/6/68	Pendleton	Sewers- Garden Lane Apt. Development	Prov. app.
2/6/68	Coos & Douglas Counties	Brush Control Spray Elliott State Forest	Prov. app.
2/8/68	Lebanon	Sewers- F St., 7th to 10th	Prov. app.
2/8/68	Lebanon	Preliminary Report S.W. Area Plan	Prov. app.
2/8/68	Lake Oswego	Springbrook Interceptor	Prov. app.
2/9/68	Gresham	Sanitary Sewers GINKGO Subd.	Prov. app.
2/9/68	Aumsville	Preliminary Report Sewers for Aumsville	Prov. app.

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
2/9/68	Gresham	Sewers- Aspen Highlands Unit V	Prov. app.
2/15/68	Beaverton	Sewers- Normandy Place	Prov. app.
2/20/68	Union Oil Co. Portland	Oil-Water separator- asphalt plant. Discharge to Will. R.	Approved
2/29/68	Toledo	Preliminary Report Sewerage Study	Prov. app.
2/29/68	Salem	Sanitary Sewers Low Rent Housing Pr. 8-3	Prov. app.

Air Quality Control

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
2/8/68	Island City	Wigwam waste burner for Boise Cascade Particle Board plant	Cond. App.*
2/18/68	Columbia River	E.E. Dimmick's proposal to barging and burning of material on river barge near Goble	Not App. (Insufficient Information)
2/23/68	Mult. Co.	Proposal of Associated Meat Co. afterburner and odor controls	Not App.
2/23/68	Mult. Co.	Proposal of Pacific Meat Co. for afterburner and odor control	Not App.
2/23/68	Mult. Co.	Proposal for Western States Rend- ering Co. for afterburner and control facilities	Not App.
2/28/68	Mult. Co.	Portland Rendering Co. after- burner control facilities	Cond. App.
2/28/68	Mult. Co.	Wilbur-Ellis Co. odor control facilities	Cond. App.
2/28/68	Mult. Co.	Brander Meat Co., proposal for afterburner and controls	Cond. App.
2/28/68	Mult. Co.	Kenton Packing Co., proposal for odor control facilities	Cond. App.

* Boise Cascade Corporation notified the staff that alternative methods of disposal had been found and the waste burner would not be built.

City of Ashland - Waste Discharge Permit

A copy of the recommended waste discharge permit conditions for the city of Ashland as presented at the meeting by Mr. Sawyer has been made a part of the Authority's permanent files in this matter.

Mr. Gary L. Boshears, Ashland City Administrator, was present and stated that a letter had been sent to the Sanitary Authority under date of March 19 asking that item 2(a) and 2(b) of the recommended Waste Discharge Permit be reconsidered. He asked that the allowable monthly average quantity of 5-day 20°C BOD in the effluent discharged to the creek be increased to 850 pounds per day from the 700 pounds per day specified in the recommended permit, and that the allowable monthly average quantity of suspended solids in the effluent be increased to 800 pounds per day from the 700 pounds per

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day recommended by the Authority staff. He said there are approximately two months out of the year in which it would be difficult to meet the standards proposed by the Authority due primarily to industrial wastes during the canning season. He asked that the Authority reconsider the limitations set and either return to a percentage treatment basis or increase the pounds per day limitation imposed upon the city.

The Chairman asked if it were more people that the city wants or is it the expansion of the canneries or other industrial plants that is putting pressure on the system.

Mr. Boshears said it is both. He said if the city wishes to encourage other industry, they would like to be able to do so; but with this type of limitation it would be questionable as to what the city could permit.

Mr. Waterman asked if the industrial cannery waste going into the city system was pretreated.

Mr. Boshears said it was screened but not otherwise pretreated.

Mr. McPhillips asked what the plans are to increase capacity of the plant.

Mr. Boshears said from a hydraulic standpoint the plant currently is at only about 51% of design capacity, but under these new standards even at 50% capacity there will be problems meeting the BOD poundage limitation.

The Chairman asked what the city is actually discharging at this point.

Mr. Lynd said in 1967 the city had one month in which it exceeded 700 pounds. It was 710 pounds for the month of October.

Mr. Boshears said they do not have a particular problem other than during the canning season.

Mr. Waterman asked if the city of Ashland had any ordinance relating to the maximum BOD which can be accepted by the sewer system.

Mr. Boshears said they did not at this time, but that the city has had very good cooperation from the industries and the canneries have gone to tighter screening. He asked if it were reasonable to have a standard set that is below what they are actually running at this time with no room for expansion. He said if this is on a 12-month basis, it will create a rather serious problem. He asked if the Authority had considered dealing directly with the industries that are causing the problems.

Mr. Harms said he believed the cities are bound to be the intermediate agents; that if the cities permit the industrial effluents to go through their sewer systems, then the cities have to be the intermediate agents.

Mr. Boshears said the city is not arguing about the future, but that their main concern is the limitation below what they are doing now under a proper design limitation. He said if the Authority wants the city to go to a poundage limitation, this is fine, but that the city would like the Authority to set the limitations where they are now.

Mr. Sawyer said the staff's calculations have been based on the flow in Bear Creek at the confluence with Ashland Creek as far as the dilution is concerned. He said the flow in Bear Creek is extremely low; consequently, the staff feels the presently assigned loads cannot be increased and it will be necessary to reduce concentrations of BOD and suspended solids in the effluent to 20 ml./liter in the future.

Mr. Boshears asked if the Authority would consider reopening the study of increasing the flow in Bear Creek. He said the main reason why the flow is so low is because of the upstream diversion of water for irrigation purposes. He said if the city of Ashland is going to be held to tight standards because of the low flow in Bear Creek, the state should look at why the flow in Bear Creek becomes so low at that time of the year.

It was pointed out the Authority does not have the power to control quantity.

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the permit be issued containing the conditions outlined in the draft presented by Mr. Sawyer with the exception that the following be deleted from condition No. 1: "(equal to at least 85% reduction of 5-day Bio-chemical Oxygen Demand (BOD) and Suspended Solids)".

City of Astoria - Waste Discharge Permit

A copy of the recommended waste discharge permit conditions for the city of Astoria as presented by Mr. Sawyer at the meeting has been made a part of the Authority's permanent files in this matter.

Mr. Loren Thompson, from Stevens, Thompson and Runyan, Engineers, was present to represent the city of Astoria at this meeting. He said the city council from Astoria met with the staff of the Authority on Tuesday, March 26, and discussed the contents of the recommended waste discharge permit. He said condition No. 1(a) of the permit stated that a copy of a signed contract with a qualified engineering firm must be submitted to the Authority by not later than April 15, 1968. Such a contract, he said, had already been signed and a copy would be turned over to the Secretary of the Authority today. Next he referred to condition 1(b)

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of the recommended permit which specifies that a preliminary study be completed and a report be submitted to the Authority by not later than December 31, 1968. Mr. Thompson said this was going to take quite a bit of time as they wanted to measure both the dry weather flow this summer and some of the wet weather flows next winter. He did not believe his engineering firm could do this in less than 15 months, and, therefore, requested that this date be changed to July 1, 1969.

Mr. Thompson said according to the recommended permit, detailed plans and specifications for the interceptor and treatment works were to be submitted and approved and financing arranged by not later than June 1, 1969. He said the city does not have the funds for it at the present time, but there is a possibility the engineering might be authorized immediately after completion of the preliminary study. The other possibility is that the city present a bond issue to the people within 3 to 4 months after the preliminary plans are completed. This he estimated would take about 3 to 4 months to accomplish. He said it will take probably 12 to 15 months to complete the final engineering plans; and construction of the interceptor system and treatment works will probably take another 12 to 18 months. It was indicated that the project could be completed without question by July 1, 1972, contrasted to the recommended deadline of December 31, 1970.

Reference was then made to item 2 in the recommended permit which states that the city shall not expand and extend its sewer system until the required sewage disposal facilities are installed. Mr. Thompson said in light of the aluminum plant coming to Astoria, additional homes are anticipated and as long as the city is progressing in accordance with the schedule established, the city would like authority to proceed with construction of necessary extensions as are essential for development of the community.

In conclusion, Mr. Thompson said the city of Astoria would like the Sanitary Authority to issue a policy statement by the early fall of 1968 on the water quality standards now adopted for the lower Columbia River that would evaluate and determine for the city what might be considered as the equivalent of secondary treatment with reference only to disposal in the Columbia River.

Mr. Harms asked the staff members if they were satisfied with the July 1, 1969 date for the preliminary study.

The Secretary said that when the conditions of the proposal were drafted, the staff had in mind that Astoria was the largest city in the State presently having no sewage treatment works and for that reason a tight time schedule was presented. He said the staff fully agrees that adequate time should be given to make a thorough study of existing conditions, so that the design which is worked out will be adequate and provide facilities which will accomplish what is necessary. He said it is, therefore, the opinion of the staff that extending the time for the preliminary study to July 1, 1969 is reasonable.

Mr. Harms said he thought the permit expiration date should be changed from December 31, 1970 to July 1, 1969, and then at that time the Authority could take a look at requirements for detailed plans and specifications and project completion.

Mr. Dale Curry, City Manager for Astoria, said that if no additions to the existing sewer system were allowed until the disposal works were completed, this would immediately halt development of 40 acres of private housing and the city needs every bit of development it can get.

The Secretary asked that rather than make it a blanket rejection for any further construction, would it be reasonable to provide that no additional extensions be made to the system without first obtaining written approval from the Sanitary Authority.

After further discussion, it was MOVED by Mr. Harms, seconded by Mr. McPhillips and carried that a waste discharge permit be granted to the city of Astoria containing points No. 1(a) as originally drafted; No. 1(b) revised to read as follows: "Preliminary study completed and report submitted to the Sanitary Authority by not later than July 1, 1969"; No. 1(c) revised to read as follows: "Financing arranged by not later than November 1, 1970"; No. 1(d) deleted; No. 2 revised to read: "The city shall not expand or extend its sewer system or allow any new or additional industrial waste discharges to the city's sewerage system until adequate waste treatment or control is provided without prior written approval of the Sanitary Authority"; Nos. 3 and 4 as originally drafted, and the permit to expire November 1, 1970.

Following the noon recess, it was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the above motion be amended to change the date for completion of financing to November 1, 1969, and to make the expiration of the permit November 1, 1969.

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Springfield Utility Board - Waste Discharge Permit

A copy of the recommended waste discharge permit conditions for the city of Springfield as presented at the meeting by Mr. Sawyer has been made a part of the Authority's permanent files in this matter.

Mr. Jack R. Criswell, Superintendent of the city of Springfield Utility Board, was present to represent the city and said that it is impossible for the treatment plant to achieve the 85% removal of BOD and suspended solids at all times due to the heavy infiltration into the old sanitary sewer mains and laterals during periods of heavy rainfall. He said they are studying the causes for this and are doing everything possible to come up to the 85% removal of BOD and suspended solids.

After considerable discussion, it was MOVED by Mr. Mosser, seconded by Mr. Waterman and carried that the permit for the city of Springfield be issued containing the conditions as recommended in the draft presented by Mr. Sawyer, except that the words "(equal to at least 85% reduction of 5-day BOD and Suspended Solids)" be struck from paragraph 1 and added to the end of paragraph 2 so the latter will read "The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 6.9 million gallons per day and shall provide treatment equal to at least 85% reduction of 5-day BOD and Suspended Solids."

Mr. Harms said he wanted to have it shown in the minutes that he took no part in the discussion, nor did he cast a vote in this matter.

Oak Lodge Sanitary District - Waste Discharge Permit

A copy of the recommended waste discharge permit conditions for the Oak Lodge Sanitary District of Clackamas County as presented at the meeting by Mr. Sawyer has been made a part of the Authority's permanent files in this matter.

Mr. Harvey Scott, Manager of the Oak Lodge Sanitary District, was present and said he would like to make a few comments about the proposed permit for his district. He said paragraph 3 states the BOD concentration of 375#/day shall not be exceeded and the suspended solids shall not exceed 375#/day. He said last year this was exceeded three months out of the year, two in the winter and one in August. The only thing in his opinion that can be done would be to look to the future in improving the plant. As to the chlorine tank, he said it was designed for 20 minutes detention at the time the plant was designed in 1959. The contact time

now required is 60 minutes. He said the sanitary district will be very happy to provide a larger contact tank, but are in a quandry what to do as some think that the district should be combined with the new service district in that area.

Mr. Lynd said, as Mr. Scott pointed out, there is approximately only 20 minutes of contact time and this results in very high bacterial counts in the effluent. He said a possible solution might be to construct an additional tank to operate in series with the present tank.

The Chairman asked why 60 minutes contact time is a condition of the permit unless it can be provided immediately.

Mr. Sawyer said the permit was worded to say that the effectiveness of disinfection shall be equivalent to 0.5 mg/l residual after 60 minutes contact time. This does not say that 60 minutes contact time has to be provided, but rather that disinfection that is equivalent to what is obtained under that detention time.

After some discussion, it was MOVED by Mr. Mosser, seconded by Mr. McPhillips and carried that the temporary permit of the Oak Lodge Sanitary District be extended for another month (until April 30, 1968) and that in the meantime the staff try to work out a satisfactory time schedule for any improvements that they feel are necessary or consult further with the staff of the district so there is no misunderstanding as to what is required.

ASPHALT PAVING PLANTS

Mr. Patterson presented a draft of proposed discharge standards and minimum requirements for hot mix asphalt plants as previously requested by the Authority members. He said the proposed regulation would establish special control areas and requirements as follows: "Section A: Special Control Areas: Hot mix asphalt plants located in the following designated areas of the state shall provide systems or processes for the control of atmospheric emissions from the stack which shall comply with the emission limits established by Table I and with Sections 21-011, 21-016 and 21-021 of Subdivision 1.

1. In all areas of air quality control regions established under Oregon Laws 1967, Chapter 425.
2. In all areas of the state within six miles of any incorporated city (measured from the city limits).
3. In all areas of the state within 1/2 mile of any residence.

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Section B: Other Areas of the State: Hot mix asphalt plants located outside of special control areas designated in Section A shall provide systems or processes for the control of atmospheric emissions having a minimum overall collection efficiency of 80% by weight and except for portable asphalt plants temporarily located at such distance from public areas or agricultural lands that particulate matter creates no hazard to human, animal or plant life, shall comply with Section 21-011, 21-016 and 21-021."

The proposal also included amendments to the definitions contained in OAR Chapter 334, Division 2, Subdivision 1, Section 21-006 by adding Hot Mix Asphalt Plant, Efficiency of Collection, Process Weight Per Hour, Dusts and Condensed Fumes.

Mr. McPhillips asked why portable asphalt plants are exempted.

Mr. Patterson said that all of the paving plants would have to have a minimum overall collection efficiency of 80%, but if they are located in a remote area, then they would be exempt from the smoke discharge, the suspended particulate and the particle fallout standards.

The members of the Authority questioned the wording of Section B.

Mr. Silver said that he would like the record to show that he did not draft the proposed regulation, and suggested that it be redrafted before a public hearing is held.

Mr. John Compton, representing Associated General Contractors, said they request that paving plants located in remote areas where water is unavailable for washing and there is nothing to pollute be exempt. He said they would also like to have sufficient time for correcting existing plants so that they will comply. He introduced Mr. Leonard M. Hallock of Babler Bros.

Mr. Hallock said that for the past two years he has done quite a bit of research, but as yet has found no feasible way of controlling emissions except using large amounts of water to clean up the air emitted from an asphalt plant. The bag type of collector has been looked into but so far they are not economically feasible. He said that where the plant is located within 6 miles of a corporate city limits or one-half mile of a residence, they know the standards have to be met, but they are asking that plants located in remote areas be exempt from the rigid controls.

It was MOVED by Mr. Mosser, seconded by Mr. Harms and carried that the wording of Section B be made grammatically correct, that the hearing be scheduled for the adoption of these regulations, that the information regarding operation costs for the construction year be presented to the hearings officer, and the effective date be determined by the hearings officer in this matter.

The meeting was recessed at 12:00 noon and reconvened at 2:00 p.m.
TAX CREDIT APPLICATIONS

Mr. Harold Sawyer presented memorandum reports dated March 29, 1968, regarding the following four tax credit applications, said reports having been made a part of the Authority's permanent files in this matter. After reviewing the same, the members took the actions as indicated below regarding them:

- (1) T-17 Weyerhaeuser Company, Springfield

It was MOVED by Mr. Waterman, seconded by Mr. Harms and carried that the Weyerhaeuser Company, Springfield, be issued a Pollution Control Facility Tax Certificate in the amount of \$10,991.

- (2) T-18 Weyerhaeuser Company, Springfield

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the Weyerhaeuser Company, Springfield, be issued a Pollution Control Facility Tax Certificate in the amount of \$18,630.

- (3) T-21 Crown Zellerbach Company, Wauna

It was MOVED by Mr. Waterman, seconded by Mr. Harms and carried that the Crown Zellerbach Company, Wauna be issued a Pollution Control Facility Tax Certificate in the amount of \$1,421,049.

- (4) T-13 Rosboro Lumber Company, Springfield

Mr. Sawyer said that Rosboro Lumber Company had submitted part one only of the application requesting a preliminary determination as to whether its facility qualifies as a pollution control facility. He stated further that the company has installed a hammer hog which made it possible for them to eliminate the use of the wigwam burner by converting all their wood waste to hog fuel. They are selling the hog fuel that is produced by this installation. He said there is some question as a result of this as to whether the principal purpose was for control of pollution or whether it is to recover a saleable and usable commodity.

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Mr. Patterson said the company had an existing operation that produced hog fuel for their own inplant use and some for sale, that the existing equipment was adequate for that purpose, but in the process of eliminating the wigwam burner and its source of emission added costs were incurred. He said the additional revenue obtained would provide roughly 10% return per year.

After considerable discussion by Mr. Skirvin, other staff representatives and Authority members, it was MOVED by Mr. Mosser, seconded by Mr. Harms and carried that the Pollution Control Facility Tax Certificate for the Rosboro Lumber Company be denied with permission to reopen it on full application if the company wishes to pursue it further.

TEMPORARY WASTE DISCHARGE PERMITS

1) New applications received since the February 29, 1968 meeting:

A memorandum report dated March 29, 1968, regarding the subject "New Applications Received Since the February 29, 1968 Meeting" was presented by Mr. Sawyer. He stated that since the last meeting 16 permit applications have been received, two of which will be delayed until plans for the installations are reviewed and approved.

The Chairman said that the Sanitary Authority should review all new developments of any kind before they go into operation. He requested that the Tahoe Development be stricken from the list as this is a new development.

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the balance of the temporary permit applications be approved and that such temporary permits expire on December 31, 1968, for the following 13 applicants: John Day, Lincoln City (Oceanlake District), Powers, Greenleaf Dairy, Kennedy, Bob M., Oliver Fuel Co., Parkrose Water District, Pendleton, Ready Mix, Smith's Pacific Shrimp Company, American Can Company, Camac Veneer, North Side Lumber Company and San Juan Lumber.

2) Extension of expiration date of existing temporary permits:

A Memorandum report on this subject dated March 29, 1968, and which has been made a part of the Authority's permanent files, was presented by Mr. Harold Sawyer. He said that the staff had been unable to complete action on the 80 applications listed in said report for which temporary permits were issued to expire March 31, 1968, and, therefore, he requested that the expiration date for these 80 applicants be extended to June 30, 1968.

It was MOVED by Mr. Harms, seconded by Mr. McPhillips and carried that the extensions be approved as requested and that, in addition, the temporary permits for Corvallis and Fir Cove Sanitation Corporation be extended for 30 days only.

WASTE DISCHARGE PERMIT FOR MAINLINE FOODS

A memorandum report dated March 29, 1968, and which has been made a part of the permanent files in this matter was presented by Mr. Harold Sawyer. He stated that the company had presented a preliminary proposal for waste disposal, that the staff had reviewed the proposal and is of the opinion that if this system is properly designed and operated, it will provide means of disposing of the food processing wastes without causing a nuisance or water pollution problems. He said the staff had prepared recommended permit conditions on this basis, outlining the criteria which the company would have to meet. One of the conditions of this recommended permit is that plans be submitted and approved and that construction be completed in accordance with the approved plans and placed in operation prior to the 1968 processing season.

The Chairman said he assumed with the tight restrictions placed on this waste discharge permit and with no discharges whatsoever to the waters during the summer, that the staff feels the Little Pudding River could not take any discharge.

Mr. Sawyer said that is correct.

The Chairman then asked the name of the creek into which the wastes would be released during the winter.

Mr. Sawyer said as near as the staff could determine it is Fitzpatrick Creek.

The Chairman asked if the winter discharge to Fitzpatrick Creek would violate the standards adopted for the waters of the state of Oregon.

Mr. Weathersbee said the staff believes not.

The Chairman then asked if there would be any problem with contamination of any ground water supplies from the irrigation or the storage.

Mr. Weathersbee said the staff believed not.

The Chairman then pointed out that in the letter sent to the company it was stated that the company would need more than 150 acres for the irrigation with the strong wastes during the summer period because of the low rate of absorption of the soils. He stated that the company in their letter said that they do not want to develop more than 150 acres and if

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they find the soil would not take the rate of application that would be involved; the company would store any excess flow in aeration and holding ponds.

The Chairman asked if such storage would be adequate or whether it would create odor or other problems.

Mr. Weathersbee said this question has not been completely resolved, and that the staff does not know exactly how much waste the company is going to generate.

Mr. Lloyd Clark from Clark and Groff Engineers, said that his firm has been assisting in the design of treatment and disposal facilities for these wastes from Mainline Foods. He said with regard to the materials that will go into the holding pond, they will be wastes from the bean process line which are the low strength wastes. High strength wastes will not go to the holding ponds but instead to irrigation. He said on the basis of past irrigation rates, there should be sufficient ground available; but if the present 150 acres are not enough, more can be provided.

The Chairman then said that the letter from the company indicated they think they ought to be allowed to discharge to the water during the summer under certain conditions. He asked if that was a firm position on the part of the company.

Mr. Clark said it would seem that if the waste waters are in a condition so as not to depreciate the stream, the company should be allowed to discharge to the creek during the summer.

Mr. McPhillips asked what the tests would be for determining whether this water would adversely affect the public waters and who will determine this.

Mr. Clark stated that it is the company's understanding no waters will be released unless prior approval is granted by the Sanitary Authority.

The Chairman then asked Mr. Clark if the company is fairly confident there would be no odor problem. He said the reason he asked this question is because this area has a summer camp that will be in use and the city of Salem will probably be experiencing subdivision development before too long. He asked if the cannery realizes that if they have odor problems they may be shut down.

Mr. Clark said he thought they understood this.

It was MOVED by Mr. McPhillips, seconded by Mr. Waterman and carried that provisional approval of the preliminary proposal submitted by the company be approved, and the recommended permit be issued with the expiration date being March 31, 1969.

WASTE DISCHARGE PERMITS - INDUSTRIAL

Memorandum reports dated March 29, 1968 covering recommended waste discharge permit conditions for the following industrial firms were presented by Mr. Lloyd Cox. These reports have been made a part of the Authority's permanent files in this matter.

- 1) Klamath Tallow Company
- 2) La Grande Concrete Pipe Co.
- 3) Rogers Asphalt Paving Co. - Island City
- 4) Rogers Walla Walla, Inc. - Athena
- 5) Rogers Walla Walla, Inc. - Milton-Freewater
- 6) Shippers Car Line - Portland
- 7) Weyerhaeuser Company - Klamath Falls

After thorough discussion, it was MOVED by Mr. Mosser, seconded by Mr. Waterman and carried that permits with the recommended conditions be approved for the first 6 applicants listed, except the expiration date for Klamath Tallow Co. be changed from December 31, 1968 to June 30, 1968, and that the Weyerhaeuser Company, Klamath Falls, permit be deferred and instead the present temporary permit for that company be extended to May 31, 1968 in order to allow time for inclusion of requirements for controlling debris in the Klamath River.

WASTE DISCHARGE PERMITS - DOMESTIC - NO TREATMENT

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 3 cities were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

- 1) Nehalem
- 2) Reedsport
- 3) Bandon

After some discussion, it was MOVED by Mr. Mosser, seconded by Mr. Harms, and carried that the permit for the city of Nehalem be authorized as recommended by the staff; the permit for the city of Reedsport be authorized as recommended by the staff, but with a change of expiration date from December 31, 1969 to June 30, 1968; and that the permit for the city of Bandon be approved in the amended form recommended by the staff but with an expiration date of August 31, 1969.

WASTE DISCHARGE PERMITS - DOMESTIC - MISCELLANEOUS BASINS

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 7 applicants located in miscellaneous basins were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

CCA403

- 1) Medford
- 2) Jacksonville
- 3) Knottown Sanitary District
- 4) Umatilla
- 5) Rice Hill
- 6) Pilot Rock
- 7) Lake Owyhee Resort

After discussion, it was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the permits be granted for the above 7 applicants as recommended by the staff, with the exception that the expiration date for Medford be changed from June 30, 1970 to September 30, 1968, and the words in parentheses in condition No. 1 of the Jacksonville permit be deleted.

WASTE DISCHARGE PERMITS - DOMESTIC - MAIN STEM WILLAMETTE RIVER

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 8 applicants located on the Main Stem Willamette River were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

- | | |
|---------------------------|---|
| 1) Eugene | 6) West Linn (Bolton) |
| 2) Harrisburg | 7) Society of Sisters of Holy Names (Maryhurst) |
| 3) Salem | 8) Portland (Tryon Creek) |
| 4) Newberg | |
| 5) West Linn (Willamette) | |

The Chairman stated that the city of Salem by letter had requested that consideration of its permit be deferred until a later meeting of the Sanitary Authority. He stated that if this is done, the temporary permit would have to be extended.

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the temporary permit for the city of Salem be extended until April 30, 1968, and action on the permanent permit be delayed until the April meeting of the Sanitary Authority.

After some discussion, it was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the permits for the other 7 applicants be granted as recommended by the staff, with the exception that the words in the parentheses in condition No. 1 of the Eugene, Harrisburg, Newberg, West Linn-Willamette, West Linn-Bolton and Portland-Tryon Creek permits be deleted, and the following words be added to condition No. 2 of the Eugene and Portland-Tryon Creek permits; "and shall receive treatment equal to at least 85% reduction of 5-day BOD and suspended solids."

WASTE DISCHARGE PERMITS - DOMESTIC - TUALATIN BASIN

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 10 applicants located in the Tualatin Basin were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

- 1) Cornelius
- 2) Tektronix (Domestic)
- 3) Upland Sanitary District
- 4) Sunset Valley Sanitary District
- 5) Oregon Regional Primate Research Center
- 6) Aloha Sanitary District
- 7) Hillsboro (Rock Creek)
- 8) Metzger Sanitary District
- 9) Tigard (Tigard Plant)
- 10) King City

After some discussion it was MOVED by Mr. Mosser, seconded by Mr. Waterman and carried that the permits for the above 10 applicants be granted as recommended by the staff with the exception that the words in the parentheses in condition No. 1 of the Cornelius, Sunset Valley Sanitary District, Hillsboro, Metzger Sanitary District and Tigard permits be deleted, that in the Upland Sanitary District permit in condition No. 4 the words "to negotiate towards achieving" be inserted in place of the words "on the following schedule to ultimately achieve" and before "a" insert "The Sanitary Authority will be advised of any departure from the following schedule," and that the expiration dates for the Cornelius, Sunset Valley Sanitary District, Oregon Regional Primate Research Center, Aloha Sanitary District, Hillsboro and Metzger Sanitary District permits be changed to March 31, 1970.

WASTE DISCHARGE PERMITS - DOMESTIC - WILLAMETTE BASIN TRIBUTARIES

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 12 applicants located on Willamette Basin Tributaries were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

- 1) Oakridge
- 2) Creswell
- 3) Vira Corporation (Country Squire Motel)
- 4) Corvallis Mobile Home Park
- 5) Scio
- 6) Mill City
- 7) Stayton
- 8) Monmouth
- 9) Independence
- 10) Salem Dev. Co. (Illahe Hills)
- 11) Dallas
- 12) Willamina

After some discussion, it was MOVED by Mr. Mosser, seconded by Mr. Harms, and carried that the permits for these 12 applicants be approved

CCA403

as recommended by the staff, with the exception that the words in parentheses in condition No. 1 of the Stayton, Monmouth and Independence permits and in condition No. 2 of the Creswell, Scio and Dallas permits be deleted.

WASTE DISCHARGE PERMITS - DOMESTIC - WILLAMETTE BASIN TRIBUTARIES

Memorandum reports dated March 29, 1968, covering recommended waste discharge permit conditions for the following 11 applicants located on Willamette Basin Tributaries were given by Mr. Harold Sawyer. These reports have been made a part of the Authority's permanent files in this matter.

- | | |
|--|-----------------------------------|
| 1) Housing Authority of Yamhill County | 7) Woodburn |
| 2) Lafayette | 8) Molalla |
| 3) Dayton | 9) Thunderbird Mobile Park |
| 4) Yamhill | 10) Gladstone |
| 5) Mt. Angel | 11) Happy Valley Mobile Home Park |
| 6) Gervais | |

After some discussion it was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the permits for these 11 applicants be granted as specified, with the exception of Mt. Angel, Woodburn and Molalla in which the words "equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids" is to be removed from condition No. 1.

MULTNOMAH COUNTY CENTRAL SERVICE DISTRICT

The Chairman said that a letter had been received from Multnomah County Commissioner M. James Gleason asking that a decision be delayed until April 12, 1968, on the Central County Service District No. 3 Sewage Treatment Plant in order to give them more time to complete their arrangements for financing construction.

After some discussion it was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that the March 31 deadline be extended to April 15, 1968.

MISCELLANEOUS

The Secretary said that the staff had been advised that the Federal Water Pollution Control Administration has recommended to the Secretary of the Department of the Interior that the Water Quality Standards of the state of Oregon for Klamath River and Goose Lake be approved.

The Secretary also reported that a letter had been received from Western Kraft Corporation regarding the status of their improvements at Albany for reducing air pollution.

There being no further business, the meeting was adjourned at 4:45 p.m.

The next meeting is scheduled for Friday, April 26, 1968, beginning at 10:00 a.m. in Room 36, State Office Building, Portland.

Respectfully submitted,

Kenneth H. Spies, Secretary

The following 13 sets of project plans and reports were reviewed and the action taken as indicated by the Water Pollution Control Section for the month of February 1968:

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
2/5/68	Pendleton	Sewers - Youngs 2nd Addn.	Prov. app.
2/6/68	Pendleton	Sewers - Garden Lane Apartment Development	Prov. app.
2/6/68	Coos & Douglas Counties	Brush Control Spray Elliott State Forest	Prov. app.
2/8/68	Lebanon	Sewers - F St., 7th to 10th	Prov. app.
2/8/68	Lebanon	Preliminary Report S.W. Area Plan	Prov. app.
2/8/68	Lake Oswego	Springbrook Interceptor	Prov. app.
2/9/68	Gresham	Sanitary Sewers GINKGO Subd.	Prov. app.
2/9/68	Aumsville	Preliminary Report Sewers for Aumsville	Prov. app.
2/9/68	Gresham	Sewers - Aspen Highlands Unit V	Prov. app.
2/15/68	Beaverton	Sewers - Normandy Place	Prov. app.
IW 2/20/68	Union Oil Co. Portland	Oil-water separator - asphalt plant. Discharge to Will. R.	Approved
2/29/68	Toledo	Preliminary Report Sewerage Study	Prov. app.
2/29/68	Salem	Sanitary Sewers Low Rent Housing Pr. 8-3	Prov. app.

PROJECT PLANS AND REPORTS

The following project plans or reports were received and processed by the Air Quality Control staff during the month of February 1968:

<u>DATE</u>	<u>LOCATION</u>	<u>PROJECT</u>	<u>ACTION</u>
8	Island City	Wigwam waste burner for Boise Cascade Particle Board plant	Cond. Approval*
18	Columbia River	E. E. Dimmick's proposal to barging and burning of material on river barge near Goble	Not Approved (Insufficient Information)
23	Mult. Co.	Proposal of Associated Meat Co. afterburner and odor controls	Not Approved
23	Mult. Co.	Proposal of Pacific Meat Co. for afterburner and odor control	Not Approved
23	Mult. Co.	Proposal for Western States Rendering Co. for afterburner and control facilities	Not Approved
28	Mult. Co.	Portland Rendering Co. afterburner control facilities	Cond. Approval
28	Mult. Co.	Wilbur-Ellis Co. odor control facilities	Cond. Approval
28	Mult. Co.	Brander Meat Co., proposal for afterburner and controls	Cond. Approval
28	Mult. Co.	Kenton Packing Co., proposal for odor control facilities	Cond. Approval

* Boise Cascade Corporation notified the staff that alternative methods of disposal had been found and the waste burner would not be built.

March 29, 1968

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: Application for Certification of Pollution Control Facility for Tax Relief Purposes, No. T-17, submitted by Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, Oregon

Both Parts I and II of an "Application for Certification of Pollution Control Facility for Tax Relief Purposes" were filed by the Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, Oregon, on February 2, 1968. This application has been reviewed and its contents are summarized as follows:

1. Weyerhaeuser Company, Paperboard and Packaging Group, owns and operates a pulp and paperboard mill at 785 N. 42nd Street, Springfield, Oregon, Lane County.
2. The wastes produced at this plant include cooling water, condensates from cooking and evaporation, excess paper mill white water, and a variety of gaseous waste streams which contain suspended particulates, steam, and various odor causing compounds.
3. Numerous pollution control facilities have been in existence prior to January 1, 1967, and are not claimed for certification. Some of the air pollution control facilities are:
 - a. Weak black liquor oxidation.
 - b. The vaporsphere to allow the collection and burning of blow, relief, and evaporator non-condensables.
 - c. Oxygen meters on the recovery furnace flue gas to allow the operator to set air flow to optimum combustion conditions for odor reduction.
 - d. An oxygen meter on the No. 3 kiln to allow the operator to set the air flow rate to optimum combustion conditions for odor reduction.
4. The facility covered in this application is the system to collect and scrub the non-condensables from the evaporator hot wells and convey the non-condensables to the lime kiln for burning. The purpose of the new system is to scrub the non-condensable gases with cooled white liquor to remove the major portion of water and return the condensate and white liquor to the liquor system. This, then, makes it possible to burn the non-condensables and destroy the odor. The company indicates that about 250 lbs. of sulfur compounds are destroyed daily. They further indicate that the maximum average daily quantity of bivalent sulfur compounds discharged to the atmosphere is 2,800 lbs.
5. Installation of this facility was started February 1, 1967, and was completed in its present form in May 1967.
6. The facility claimed consists of the following components:
 - a. 1 rock pot scrubber.
 - b. 2 pumps.
 - c. 2 heat exchangers.
 - d. Necessary piping.

7. The actual cost of this facility, as certified by an independent public accountant, is stated to be \$10,991. A copy of the accountant's certification is attached.

The findings of the staff are as follows:

1. An application has been filed by Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, on the form provided by the Sanitary Authority.
2. Construction and installation of the facility was completed after January 1, 1967.
3. The facility is designed for and is being operated for the principal purpose of preventing and controlling air pollution. The equipment takes a saturated (with water) mixture of non-condensable odorous vapors and scrubs them to:
 - a. Cool and condense out water vapor.
 - b. Absorb most of the odorous vapors in the cooking liquor.
 - c. Send non-absorbed vapors to the lime kiln for incineration.
4. The continued operation of this facility is necessary to satisfy the intents and purposes of ORS Chapter 449 and regulations thereunder.
5. The actual cost of the facility is \$10,991.

It is, therefore, recommended that a "Pollution Control Facility Certificate," bearing the actual cost figure of \$10,991, be issued to Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, Oregon, for the facility in tax application No. T-17.

Attachment

Haggerty, Ruff & Hill
PUBLIC ACCOUNTANTS

—
MCKENZIE BUILDING
444 NORTH A STREET
SPRINGFIELD, OREGON
97477

January 27, 1968

Weyerhaeuser Company
Springfield Branch
Paperboard and Packaging Group
Springfield, Oregon

Gentlemen:

As independent public accountants selected to review the costs of a hot well vapor handling system in connection with your application for certification of pollution control facility to Oregon State Sanitary Authority dated January 27, 1968, we have examined the attached statements of costs shown as Exhibit E and identified on the company's records as appropriation request number 67-4 and work order number 28-2700. Our examinations included tests of the accounting records, inquiries, and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the attached Exhibit E consisting of four pages present fairly the costs of the above named facility aggregating \$10,991.

Very truly yours,

Haggerty, Ruff & Hill

MEMORANDUM

March 29, 1968

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: Application for Certification of Pollution Control Facility for Tax Relief Purposes, No. T-18, submitted by Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, Oregon

Both Parts I and II of an "Application for Certification of Pollution Control Facility for Tax Relief Purposes" were filed by the Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, Oregon, on February 2, 1968. This application has been reviewed and its contents are summarized as follows:

1. Weyerhaeuser Company, Paperboard and Packaging Group, owns and operates a pulp and paperboard mill at 785 N. 42nd Street, Springfield, Oregon, Lane County.
2. The wastes produced at this plant include cooling water, condensates from cooking and evaporation, excess paper mill white water, and a variety of gaseous waste streams which contain suspended particulates, steam, and various odor causing compounds.
3. Numerous pollution control facilities have been in existence prior to January 1, 1967, and are not claimed for certification. Some of the air pollution control facilities are:
 - a. Weak black liquor oxidation.
 - b. The vaporsphere to allow the collection and burning of blow, relief, and evaporator non-condensables.
 - c. Oxygen meters on the recovery furnace flue gas to allow the operator to set air flow to optimum combustion conditions for odor reduction.
 - d. An oxygen meter on the No. 3 kiln to allow the operator to set the air flow rate to optimum combustion conditions for odor reduction.
4. The facility covered in this application consists of surface condensers, ejectors, hot wells, and a scrubber installed on the No. 1, No. 2, and No. 3 multiple effect evaporator sets. The purpose of this equipment is twofold: First, to provide a concentrated flow of non-condensables which can be burned with other non-condensable gases for odor reduction. Second, to reduce the volume of condensate to the treatment system. About 100 lbs/day of the 250-lb. total sulfur compounds in the whole evaporator non-condensable system are recovered and burned. Maximum average discharge for the entire mill is approximately 2,800 lbs/day.
5. Installation of this facility was started in February 1966 and completed and put into operation in January 1967.
6. The facility claimed consists of the following components:
 - a. Evaporator and vapor vacuum system.
 - b. Condensers and ejectors.
 - c. Supporting structures.
 - d. Hot well and scrubber.
 - e. Two pumps and the associated piping.

7. The actual cost of this facility, as certified by an independent public accountant, is stated to be \$18,630. A copy of the accountant's certification is attached.

The findings of the staff are as follows:

1. An application has been filed by Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, on the form provided by the Sanitary Authority.
2. The construction and installation of this facility was completed after January 1, 1967.
3. The facility is designed for and is being operated for the principal purpose of preventing, controlling, and reducing air pollution. This system replaces an older one of similar function maintaining a vacuum in the last multiple effect evaporation stage, but does so without getting any air in the vapors from the hot well. Thus, it is possible with the apparatus claimed in application No. T-17 to condense and scrub out water vapor and odorous gases, leaving only a residual for incineration in the lime kiln. With the other system, the air included would have cooled the kiln to the extent that its efficiency would have been significantly impaired.
4. The continued operation of this facility is necessary to satisfy the intents and purposes of ORS Chapter 449 and regulations thereunder.
5. The actual cost of the facility is \$18,630.

It is, therefore, recommended that a "Pollution Control Facility Certificate," bearing the actual cost figure of \$18,630, be issued to Weyerhaeuser Company, Paperboard and Packaging Group, Springfield, for the facility claimed in application No. T-18.

Attachment

Haggerty, Ruff & Hill
PUBLIC ACCOUNTANTS

—
MCKENZIE BUILDING
444 NORTH A STREET
SPRINGFIELD, OREGON
97477

January 27, 1968

Weyerhaeuser Company
Springfield Branch
Paperboard and Packaging Group
Springfield, Oregon

Gentlemen:

As independent public accountants selected to review the costs of an evaporator vapor vacuum system in connection with your application for certification of pollution control facility to Oregon State Sanitary Authority dated January 27, 1968, we have examined the attached statements of costs shown as Exhibit E and identified on the company's records as appropriation request number 66-7 and work order numbers 27-4910, 27-4920, 27-4930, 27-4941, 27-4942 and 27-4950. Our examination included tests of the accounting records, inquiries, and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the attached Exhibit E consisting of two pages present fairly the costs of the above named facility aggregating \$18,630.

Very truly yours,

Haggerty, Ruff & Hill

MEMORANDUM

March 29, 1968

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: Application for Certification of Pollution Control Facility for Tax Relief Purposes, No. T-21, submitted by Crown Zellerbach Corporation, Wauna Division, Clatskanie, Oregon

Both Parts I and II of an "Application for Certification of Pollution Control Facility for Tax Relief Purposes" were filed by Crown Zellerbach Corporation, Wauna Division, Clatskanie, Oregon, on February 27, 1968. This application has been reviewed and its contents are summarized as follows:

1. Crown Zellerbach Corporation, Wauna Division, owns and operates a pulp and paper manufacturing plant located 12 miles west of Clatskanie on Highway 30 in Clatsop County, Oregon.
2. The wastes produced at this plant include kraft pulp mill effluents, paper machine effluents, and bleach plant effluents, which contain chemicals and settleable solids.
3. Pollution control facilities at the site not claimed for certification in this application are:
 - a. Sanitary sewage treatment plant.
 - b. Lime kiln scrubber system.
 - c. Handling system for conveying odor-bearing gases from digesters and evaporators to lime kiln for burning.
 - d. Black liquor oxidation system.
 - e. Electrostatic precipitator.
4. The facility covered in this application is the primary treatment plant installed for the purpose of removing settleable solids from the mill effluents. This system begins with an effluent mixing chamber and ends with an outfall line extending 650 feet into the Columbia River. The system is designed to treat the effluent flows from the kraft mill, including pulping, recovery, recausticizing and pulp drying, and the paper machines at an effluent flow rate of 37 MGD, containing a peak load of 160,000 lbs/day of Suspended Solids. Normal operations at present will be 30 MGD with 100,000 lbs/day of suspended combustible solids. The treatment plant is designed to remove solids so that the clarified effluent discharged to the river contains 0.5 lbs. of solids per 1,000 gallons..
5. Construction of the primary treatment plant began in July 1966 and was completed on January 9, 1967. Operation commenced on January 10, 1967.
6. The facility claimed consists of the following components:
 - a. Effluent pumping station and mix chamber.
 - b. Effluent line to clarifier.
 - c. Effluent clarifier with mechanism.
 - d. Outfall line to river.
 - e. Sludge thickener building, including sludge pumps, thickeners, filtrate pumps, piping, etc.
 - f. Instrumentation.
 - g. Sludge conveyor system.
 - h. Caterpillar D6C tractor (for the solids disposal land fill operation).

7. The actual cost of this facility, as certified by an independent accounting firm, is stated to be \$1,421,049. A copy of the cost breakdown and accountant's certification is attached.

The findings of the staff are as follows:

1. An application has been filed by Crown Zellerbach Corporation, Wauna Division, on the form provided by the Sanitary Authority.
2. The construction and installation of the facility was completed after January 1, 1967. The clarifier was originally designed and constructed to have a sand-clay mat bottom. Initial testing and start-up attempts late in 1966 were unsuccessful due to leakage. A concrete bottom was, therefore, added to the clarifier and the unit was finally placed in operation on January 10, 1967.
3. The facility is designed for and is being operated for the principal purpose of preventing, controlling, and reducing water pollution.
4. The construction and operation of this facility is necessary to satisfy the intents and purposes of ORS Chapter 449 and regulations thereunder.
5. The actual cost of the facility is \$1,421,049.

It is, therefore, recommended that a "Pollution Control Facility Certificate," bearing the actual cost figure of \$1,421,049, be issued to Crown Zellerbach Corporation, Wauna Division, Clatskanie, Oregon, for the facilities claimed in tax application No. T-21.

Attachment

CROWN ZELLERBACH CORPORATION

EXHIBIT F

WAUNA
(Division)

Certification of Pollution Control Facilities for Tax Relief Purposes

Part II - Application for Certification of Pollution Control Facility
Item C-3 and C-4, Materials, etc., Incorporated into Pollution Facility and Final Cost

<u>Engineering Estimate Item No.</u>	<u>Description</u>	<u>Final Actual Cost</u>
5005	Effluent Pumping Station & Mix Chamber	119,148
5006	Effluent Line to Clarifier	138,098
5007	Effluent Clarifier	452,903
5008	Thickener Building	90,386
5009	Clarifier Outfall Line	187,336
5101	Main Effluent Pumps	31,262
5102	Clarifier Mechanism	72,793
5104	Sludge Pumps	15,837
5105	Sludge Conveyor	34,293
5106	Filtrate Pump	1,675
5107	Piping	93,152
5108	Instrumentation	12,026
5109	Thickeners	120,781
5110	Traveling Screens	12,207
5111	Standby Equipment	932
0104	Cat D6C Tractor	38,220
TOTAL		1,421,049

We have examined this final actual cost summary of Crown Zellerbach Corporation's Wauna Division water pollution control facility as of February 9, 1968. Our examination included such tests of construction accounting records and such other auditing procedures as we considered necessary in the circumstances.

Costs shown include outside contractors' billings, Crown Zellerbach Central Engineering Office facility charges (allocated to individual construction line items based upon total cost input) and direct materials purchases.

In our opinion, this final summary presents a true and correct representation of the actual costs, aggregating \$1,421,049, of the Wauna Division's water pollution control facility at February 9, 1968.

Lybrand, Ross Bros & Montgomery
LYBRAND, ROSS BROS. & MONTGOMERY
Certified Public Accountants

February 9, 1968
Portland, Oregon

MEMORANDUM

Denied
March 29, 1968

TO: Members of the Sanitary Authority

FROM: HLS

SUBJECT: Application for Determination of Eligibility of a Facility for Certification as a Pollution Control Facility, No. T-13, Submitted by Rosboro Lumber Company, Springfield, Oregon

Part I, only, of an "Application for Certification of Pollution Control Facility for Tax Relief Purposes" was filed by Rosboro Lumber Company, Springfield, Oregon, on January 17, 1968. In submitting Part I, only, the company is requesting that a preliminary determination be made as to whether or not the facilities identified and described in their application are eligible for certification as a "Pollution Control Facility" under the provisions of Chapter 592 Oregon Laws, 1967. (ORS 449.605 to 449.645). The material submitted has been reviewed and is summarized as follows:

1. Rosboro Lumber Company is a concern engaged in the process of manufacturing lumber, plywood, fabricated products, and glu-lam beams. By-products produced are pulp chips, hog fuel, sawdust, handle stock, plus a small amount of wood sales.
2. The facility covered in the application is a hammer hog installed for the purpose of grinding up large pieces of bark and slabs into a fine mixture which can be used in steam plants as hog fuel. This material was all formerly burned in a wigwam burner until the addition of the hammer hog. Upon completion, the company immediately shut down the burner and decreased the air pollution in the area. The waste products recovered by the hammer hog are either sold or used in the company's steam plant for fuel.
3. Construction of the hammer hog installation started on February 28, 1967, and was completed and placed in operation on September 1, 1967.
4. The materials, machinery, and equipment incorporated into the installation consist of the following:

- Jeffrey Hog and motor
- Magnetic starter
- Electrical materials
- Conveyor and hoppers
- Metal detector
- Angle iron and floor plate
- Screen bars
- Belts
- Control panel

5. The company estimates that the installation of the hammer hog will save them approximately \$35 per day or \$9,500 annually. (Total hog fuel sales revenue).

Mr. Fred Skirvin obtained additional information by telephone from Mr. H. G. Scherffius, Office Manager. This information is summarized as follows:

1. Total cost of the hogger installation was \$36,877.33. The unit is a used machine, driven by a 400-HP motor, and replaces a smaller hogger which was sold for \$4,500.
2. At present, the mill is running 1 shift; therefore, the wages for the hogger operator are only \$5,487/year.
3. Hog fuel output:
 - a. In-plant use (steam generation) = 66,000 units/year
 - b. Total sales (sold to Weyerhaeuser, Springfield) = 16,380 units/year
TOTAL OUTPUT = 82,380 units/year
 - c. Value of hog fuel (f.o.b. Rosboro plant) = .80¢/unit
 - d. Total annual value = \$65,904/year
 - e. 1 unit = 200 ft³ = 7.4 yds³
4. Estimated life of installation is 10 years.
5. The reason Rosboro is seeking certification for this installation is based on the following:
 - a. They had a smaller hog fuel operation and a wigwam burner that were operating properly.
 - b. Although they had many unreclaimed dollars in the wigwam burner, it was shut down after the installation of the larger hog fuel system.
 - c. The increase in hog fuel sales, due to the larger operations, has been about \$310 per month. The installation can't be considered profitable based on this figure and the unreclaimed value of the wigwam burner.

Mr. Skirvin has reviewed this application and information and prepared the following report:

"A cost and profitability calculation was employed to determine the economic nature of the installation. The procedure is described in Perry's Chemical Engineering Handbook, 4th Edition, Section 26. A portion of the figures was obtained from Rosboro personnel. In addition, some assumptions were made as indicated in the calculations.

ECONOMIC EVALUATION OF ROSBORO LUMBER COMPANY'S HAMMER HOG INSTALLATION.

Purpose: To determine if installation is principally for preventing air pollution based on economics.

1. Total installed cost \$36,877.33*
(considered to be original fixed investment)
2. Annual hog fuel output:
 - a. In-plant use (steam generation) 66,000 units*
 - b. Sales (to Weyerhaeuser, Springfield) 16,380 units*
TOTAL 82,380 units
 - c. Value of hog fuel (f.o.b. Rosboro Plant) \$0.80/unit*
(1 unit = 200 ft³ = 7.4 yd³)
 - d. Total annual value of hog fuel \$65,904.00

3. Annual Operating Cost:

a. Feed material	0
(assigned a zero value because it is a waste material)	
b. Operating labor (1 man - shift/yr)	\$ 5,487.00*
c. Maintenance (assumed to be 0.5 man shift/yr)	\$ 2,743.50
d. Electrical power (400-HP for hog, *plus 137-HP assumed for auxiliary equipment operating 2100 hrs/yr at \$0.01/kw-hr, 1-HP = 0.746, kw)	\$ 8,400.00
e. Depreciation (based on estimated life of 10 yrs* assumed zero salvage and straight-line method)	\$ 3,687.73
f. Overhead (assumed to be 0.5 of operating labor)	\$ 2,743.50
g. Property taxes (assumed to be 0.5% of total installed cost)	\$ 184.39
TOTAL	\$23,246.12

4. Annual Profit:

a. Before income taxes = \$65,904.00 - \$23,246.12 =	\$42,657.12
b. After income taxes (Corporate taxes assumed to be 50% of taxable income)	\$21,328.56

5. Annual return on investment after income taxes:

$$\frac{\$21,328.56}{\$36,877.33} = 57.8\%$$

(Assuming working capital to be zero)

6. Payout time after income taxes:

$$\frac{\$36,877.33}{\$21,328.56 + \$3,687.73} = 1.47 \text{ years}$$

Although the above figures are estimates, I believe it is reasonable to say that the facility is economical to install and operate."

A visit was made to the Rosboro plant in Springfield on March 20, 1968, and this information was reviewed with Mr. Scherffius. He felt that Mr. Skirvin's economic analysis, as presented in his report, would be a reasonably accurate analysis of the situation if one assumed that this was a totally new installation and that Rosboro Lumber Company produced no hog fuel prior to the installation of the system claimed in the application. He indicated that the company originally had 2 small knife hogs which produced enough hog fuel for their in-plant steam generation and some extra for sales. Those wood wastes which were too large for the existing hogs were conveyed directly to the wigwam waste burner for disposal. The existing hogs were not worn out and were doing an adequate job. However, they did not have the capacity to handle the total mill wastes.

In order to eliminate the wigwam burner and dispose of the wood waste by converting it to hog fuel, the company removed and sold one of the knife hogs and installed a much larger hammer hog in its place. They also added a conveyor section to carry the wood wastes, which formerly went to the burner, to the new hog installation. The company estimates that the quantity of additional hog fuel produced from the

*Information received from Mr. H. G. Scherffius, Office Manager, Rosboro Lumber Co.

wastes that formerly went to the wigwam burner increased their revenue from hog fuel sales by about \$310 per month, or \$3,720 per year. Based on this added revenue, it will take them approximately 10 years to pay for the cost of the installation. The company also estimates that the increased power costs required to run the larger hammer hog are essentially off set by the reduced maintenance costs on the hammer hog as opposed to the knife hog. The company also feels that they have an unreclaimed investment in the existing wigwam burner, and, furthermore, that they will probably have to pay to have it removed.

As you know, the tax relief Act states that the facility must be for the principal purpose of pollution control and not for the principal purpose of converting waste products into a saleable or usable commodity. Unfortunately, the Act is silent on the matter of how "principal purpose" shall be determined.

The staff has attempted to develop alternative methods for determining whether or not the facilities involved appear to be eligible for certification as a pollution control facility. The staff, therefore, requests that a preliminary determination be made, based on the presently available information, as to whether or not this facility appears to meet the requirement that its principal purpose is pollution control.

MEMORANDUM

March 29, 1968.

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: New Applications Received Since February 29, 1968, Meeting

Since the last meeting on February 29, 1968, 16 permit applications have been received. This brings the total number received to 600. Action on 2 applications will be delayed until plans for the installations are reviewed and approved.

14 of these applications are listed on the attached sheet along with the recommended expiration date for Temporary Permits. The staff recommends that Temporary Permits be issued to these applicants.

Attachments

TEMPORARY PERMITS
for
Applications Received Since Last Meeting

I. Domestic Waste Permits

Recommendation: Temporary Permit to Expire on December 31, 1968

Application

<u>Number</u>	<u>Applicant's Name</u>
590	John Day
589	Lincoln City (Oceanlake District)
594	Powers
591	Taho-Development (Neskowin Lodge)

new not required

II. Industrial Waste Permits

Recommendation: Temporary Permit to Expire on December 31, 1968

586	Greenleaf Dairy, Greenleaf
592	Kennedy, Bob M., Eugene
585	Oliver Fuel Co., Corvallis
597	Parkrose Water District, Portland
598	Pendleton Ready Mix, Pendleton

III. Special Categories

A. Fish Processing Wastes

Recommendation: Temporary Permit to Expire on December 31, 1968

587	Smith's Pacific Shrimp Company, Newport
-----	---

B. Log Deck Drainage and Log Pond Overflow

Recommendation: Temporary Permit to Expire on December 31, 1968

599	American Can Company, Brownsville
588	Camac Veneer, Eugene
600	North Side Lumber Company, Philomath
593	San Juan Lumber, John Day

MEMORANDUM

March 29, 1968

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: Extension of Expiration Date of Existing Temporary Permits

The staff has been unable to complete action on many of the applications for which Temporary Permits were issued to expire on March 31, 1968. These applicants were informed by letter on March 15, 1968, that the Authority would be requested to extend the expiration date of their present Temporary Permit.

The staff, therefore, recommends that the expiration date of the Temporary Permits issued to the applicants listed on the following 2 pages be extended until June 30, 1968.

I. Domestic Waste Permits

Recommendation: Extend Temporary Permit to Expire on June 30, 1968

<u>Application Number</u>	<u>Applicant's Name</u>
264	Albany
122	Amity
48	Baker
79	Beaverton
42	Boardman
511	Cannon Beach
450	Eddy's Motel, The Dalles
202	Elgin
213	Forest Grove
133	Gold Hill
168	Green Sanitary District, Roseburg
56	Heppner
156	Hermiston
469	Homes Association of Cedar Hills (Beaverton)
278	Josephine County School District - Fleming Jr. High School
68	Klamath Falls - Kingsley Field
266	Laurelwood Academy, Gaston
116	Markham Elementary School, Portland
335	Millersburg School Dist. #32, Albany
294	Multnomah County - Fanno Creek
268	Newport
348	North Roseburg Sanitary District
318	Ontario
36	Orient Grade School, Gresham
391	Pleasant Valley School Dist. 15 Jt, Portland
259	Portland - Columbia
245	Prineville
255	Rainier
63	Roseburg
283	Salishan Properties, Gleneden Beach
409	Siletz Keys Sanitary District, Lincoln City
410	South Umpqua Public Schools No. 19, Myrtle Creek (High School)
300	Talent
333	Tigard - Pinebrook
123	Tillamook City
305	Triple H Investments, Eugene - Diamond Hill
357	Vernonia
160	Willamette Lutheran Homes, Salem

II. Industrial Waste Permits

Recommendation: Extend Temporary Permit to Expire on June 30, 1968

Application

Number

Applicant's Name

167	Agnew Plywood, Grants Pass
142	Amalgamated Sugar Company- Nyssa Plant
274	Atlantic Richfield Co., Portland
80	Joe Bernert Towing Co., Wilsonville
162	Bohemia Lumber Company, Culp Creek
221	Boise Cascade Corporation, Medford
257	Brawand Custom Meat, Scappoose
148	Cascade Eggs, Inc., - Mt. Angel Plant
404	Corvallis Sand & Gravel, Corvallis
15	Eugene Sand and Gravel, Eugene
248	Gunderson Bros. Engineering, Portland
238	Hakanson, Ralf, Oakland
10	Harris Pine Mills, Pendleton
417	Harvey Aluminum of Oregon, The Dalles
108	Hood River Distillers, Hood River
114	Walter E. Koch Lumber Co., Sandy
66	Kummer Meat Company, Hillsboro
233	M. C. Lininger & Sons, Medford
208	Mallorie's Dairy, Inc., Silverton
336	Northwest Sand & Gravel, Portland
39	Pacific Building Materials, Portland
470	Pacific Power & Light, Astoria (Service Center)
374	Pacific Power & Light, Eagle Point
375	Pacific Power & Light, Klamath Falls (Westside)
312	Pennsalt Chemicals Corporation, Portland
124	Publishers Paper Company, Molalla
342	Quick Service Sand and Gravel, Clackamas
488	Rhodia, Inc., Portland
219	Rosboro Lumber Company, Springfield
110	Shell Chemical Company, St. Helens
203	Sheridan Pressure Treated Lumber, Sheridan
205	Standard Oil Company of California, Portland
184	Tillamook Rock Products, Tillamook
30	Tillamook Veneer Company, Tillamook
249	T. P. Packing Company, Klamath Falls
224	Troutdale Sand and Gravel, Troutdale
87	West Foods, Inc., Salem
103	Weyerhaeuser Company, North Bend
340	Wildish Sand and Gravel, Eugene
199	Willamette Poultry Company, Creswell
100	Willamette-Western Corporation, Portland (Ivon)
101	Willamette-Western Corporation, Portland (River)

Correct
to code on index

MEMORANDUM

March 29, 1968

TO: Members of the Sanitary Authority

FROM: Harold L. Sawyer

SUBJECT: Proposed New Mainline Foods Cannery at Brooks, Oregon

Mainline Foods, Inc., is presently constructing a food processing plant northeast of the Brooks'-Interstate 5 interchange. On February 27, 1968, the company filed an application for a Waste Discharge Permit. On March 5, 1968, a revised application was filed. A letter providing additional information was then received on March 11, 1968. Numerous conferences have been held with representatives of the company to discuss waste treatment proposals, both before and after the filing of these documents.

The company has, in essence, presented a preliminary proposal for handling the wastes from the proposed food processing plant. No detailed engineering plans have been submitted as of this date. The information submitted is summarized as follows:

1. The company plans to process peas, beans, and corn beginning June 10, 1968. Additional products, such as lima beans, berries, cauliflower, and broccoli are contemplated, but quantities are not known at this date. In any event, total quantities will not exceed the waste loadings represented by the production of peas, beans, and corn, which are being used for design purposes.
2. The average waste flow for design purposes is estimated to be 1.5 MGD.
3. No wastes will be discharged to waters of the state during the low flow summer period.
4. Sanitary wastes will be treated in a separate system consisting of an extended aeration treatment plant, a holding pond, and chlorination facilities.
5. High strength and low strength wastes will be separated in the plant and conducted in separate lines by gravity to screen chambers.
6. Wastes will then be passed through 20-mesh shaker screens to remove solids. The solids removed will be sold to farmers.
7. High strength wastes will be disposed of by irrigation on grass land. The company has indicated that 150 acres are presently planned for irrigation disposal. They also indicate that they have 300 additional acres under long-term lease adjacent to the plant site which can be used. The staff has requested that land in excess of the 150 acres planned be prepared for irrigation disposal this operating season.
8. Low strength industrial process wastes will be conveyed to a 2.3-acre 10-ft. deep aerated lagoon. 3 aerators, 50-HP each, will be provided on this pond. The aerated lagoon will overflow to a 4-acre stabilization pond. The stabilization pond will overflow into 2 holding ponds with a total surface acreage of 16.8 acres, and a holding capacity of 38 million gallons.

9. Wastes stored in the domestic and industrial waste holding ponds will be released to a creek discharging to the Little Pudding River as permitted by the Oregon State Sanitary Authority.

It is the opinion of the staff that the general facilities incorporated in this proposal, if properly designed and operated, will provide a means of disposing of the food processing wastes without causing nuisance or water pollution problems. Recommended Waste Discharge Permit Conditions have been drafted and a copy has been forwarded to the company. These conditions specify the criteria which must be met in the disposal of wastes from the proposed food processing plant.

In recommending the issuance of a permit, the staff is, in essence, recommending provisional approval of the preliminary proposal submitted by the company. It is not recommending final approval of plans, since detailed engineering plans have not yet been submitted. Such approval is a condition of the recommended permit.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Mainline Foods, Inc.
Expiration Date: 3/31/69
Application No.: 584R
Date Received: 3/5/68
County: Marion
River Basin: Willamette
Receiving Stream: Fitzpatrick Creek
River Mile: 3.5

1. "Wastes", as used in this permit, refers to industrial process wastes, sanitary wastes, and other liquid discharges cited in the permit application subject to the limitations and provisions imposed by the conditions of this permit.
2. The permittee shall submit detailed engineering plans for complete waste control, treatment, and disposal facilities which are adequate to meet the conditions of this permit to the Sanitary Authority for review and approval prior to May 1, 1968. Such facilities shall be constructed in accordance with the approved plans and placed in operation prior to the 1968 processing season.
3. Approved separate collection, treatment, and disposal facilities shall be provided for sanitary wastes.
4. All plant processes and equipment, and all waste collection, treatment, and disposal facilities shall be operated and maintained at all times at maximum efficiency and in a manner which will minimize waste discharges.
5. During the period from May 1 to November 1:
 - a. No wastes shall be discharged to public waters.
 - b. High strength industrial process wastes shall be disposed of on land in a controlled manner so as to prevent:
 1. Ponding of the waste on the ground surface.
 2. Surface run-off.
 3. Subsurface drainage through any installed agricultural drainage tile system or through other means.
 4. Odor problems or other nuisance conditions.
 - c. All sanitary wastes and other industrial process wastes shall be treated in separate biological treatment systems and routed to separate holding ponds for storage, or disposed of by other approved means.
6. During the period from November 1 to May 1, after first obtaining approval from the Sanitary Authority:
 - a. Wastes from the industrial process waste holding ponds and from the treated sanitary waste storage pond may be released to the waters of Fitzpatrick Creek at a combined effluent BOD concentration not to exceed 30 mg/l and at a rate to provide a minimum dilution for the combined industrial and sanitary wastes of 20 to 1 with the waters of the Little Pudding River.

- b. Wastes from the sanitary waste holding pond may be released only after first receiving adequate disinfection. Disinfection shall be provided prior to discharge from the controlled confinement of the treatment facilities and equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a residual of 0.5 mg/l after 60 minutes of contact time.
7. The company shall effectively monitor all waste production and disposal and submit reports of daily data to the Sanitary Authority immediately following the end of each calendar month of operation. Daily data for each waste control system shall be collected and submitted for the following parameters, unless otherwise agreed to by the Sanitary Authority:
- a. Production information
 - 1. Operating schedule (daily).
 - 2. Qualitative production information (detailed quantitative pack data available upon request).
 - b. Land disposal
 - 1. Flow (daily total flow, hrs/day irrigated, and source).
 - 2. Area used and location (relate area used to flow).
 - 3. General observations of disposal area (odor, ponding, surface run-off, etc.).
 - c. Industrial waste biological treatment system
 - 1. Waste flow to system (daily).
 - 2. pH and temperature of aeration basin influent and effluent (daily).
 - 3. BOD and Suspended Solids
 - a. Aeration basin influent and effluent (3 times/week on composite sample).
 - 4. General observations of aeration basin, stabilization pond, and holding ponds (color, odor, etc. - daily).
 - 5. Stage level in each holding pond (daily).
 - d. Domestic waste treatment plant (reports shall be submitted on forms supplied by the Sanitary Authority).
 - 1. Sewage flow (daily).
 - 2. Mixed liquor Suspended Solids (daily).
 - 3. Stage level in holding pond (daily).
 - 4. Chlorine residual (daily during period of releases).
 - 5. Pounds of chlorine used (daily during period of releases).
 - 6. Sludge disposal (location, method, frequency, etc.).
 - e. Effluent discharges (November 1 to May 1)
 - 1. Waste flow (daily).
 - 2. BOD and Suspended Solids (2 times/week on grab samples).
 - 3. General observations of outfall and stream conditions (related to waste discharges - daily).
 - a. Discoloration
 - b. Foam
 - c. Odor

- d. Slime
 - e. Deposits
 - f. Dissolved oxygen above and below outfall
 - g. BOD above and below outfall
 - h. Temperature above and below outfall
8. In the event the permittee is temporarily unable to comply with any of the above conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
 9. Authorized representatives of the Sanitary Authority shall be permitted access to the plant premises at all reasonable times for the purposes of making inspections or surveys and for collecting samples or obtaining data and carrying out other necessary functions related to this permit.
 10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with plans and specifications for proposed changes. No change shall be made until plans are approved and a new permit issued.
 11. This permit is subject to termination if the Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application.
 - b. That there has been a violation of any of the conditions thereof.
 - c. That a material change in quantity or strength of waste or type of waste disposal exists.
 12. In the event that a change in the conditions of the receiving waters results in a hazardous degree of pollution, the Authority may specify additional conditions to this permit.

March 19, 1963

Mainline Foods, Inc.
P. O. Box 2165
Salem, Oregon 97303

Gentlemen:

Re: Permit Application No. 584
Brooks, Oregon, Plant

Your permit application has been reviewed by the Sanitary Authority staff and recommended permit conditions have been drafted. A copy of these conditions is attached for your review. You are invited to submit any comments you may have in writing prior to March 25, 1963. The Sanitary Authority will be requested to issue a permit containing these conditions as they may be subsequently modified at its meeting on March 29, 1963, to be held at 10:00 A.M. in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon. You may appear at this meeting if you so desire.

As you know, Oregon law requires that detailed engineering plans for waste disposal facilities be submitted to the Sanitary Authority for review and approval prior to construction. Through your permit application and your consulting engineer, you have presented a general proposal for handling the wastes from your proposed food processing plant. It is the opinion of the staff that the general facilities incorporated in this proposal, if properly designed and operated, will provide a means of disposing of the plant wastes without causing nuisance or water pollution problems. In recommending issuance of a permit, the staff is, in essence, recommending provisional approval of your preliminary proposal. It is not recommending final approval of plans, since detailed engineering plans have not yet been submitted. Such approval is a condition of the recommended permit.

There are two specific points regarding your preliminary proposal which require comment at this time.

1. It is the opinion of the engineering staff that the waste collection system in the plant should be designed to provide for maximum flexibility and simplicity in separating strong and weak wastes. Past experience would lead the staff to predict that processing schedules will change from time to time in a manner which will make it highly desirable to be able to divert any collection gutter to either the strong or weak waste systems by some simple means. Adequate attention to this item will be a condition of final plan approval.

Mainline Foods, Inc.

March 19, 1968

Page 2

2. Based on information which has very recently become available to the staff, it would appear that the planned irrigation rates of approximately 0.5 inches per day are excessive for waste disposal purposes in the Willamette Valley. In order to prevent run-off and subsurface drainage problems, the waste application rates should not significantly exceed the consumptive water use for the cover crop. Based on data found in special report No. 194, issued by the Oregon State University Agriculture Experiment Station, approximate average consumptive use values for pasture grass in the Willamette Valley are calculated to be as follows:

April precipitation exceeds consumptive use.

May 0.03 inches per day.

June 0.10 inches per day.

July 0.17 inches per day.

August 0.14 inches per day.

September 0.06 inches per day.

October precipitation exceeds consumptive use.

It would, therefore, appear that for the proposed 1968 operating season, additional acreage should be prepared and available for irrigation disposal of wastes.

The testing and reporting requirements contained in the permit conditions, which might appear to be extensive, are actually minimal. Additional tests should be run to determine the characteristics of the strong waste applied to land and to completely explore the capabilities of disposal on the land available so that expanded waste disposal capabilities can be evaluated by your engineers and our staff. Such detailed data will have to be provided as a basis for any proposed expansion.

Very truly yours,

Kenneth H. Spies
Secretary and Chief Engineer

HLS:an
Attachment

cc: Portland District Office

Copy to Clark & Kroff, Salem

MAINLINE FOODS, Inc.

P. O. BOX 2165
SALEM, OREGON 97308

March 22, 1968

Oregon State Sanitary Authority
P. O. Box 231
Portland, Oregon 97207

Re: Permit Application No. 584
Brooks, Oregon Plant

Gentlemen:

We note that our proposal for handling plant and domestic wastes appears to meet your requirements.

Final design of waste handling facilities is now going forward on the basis of our proposal and your recommendations. As a result, we believe this plant will contain more advanced and versatile means for handling process wastes than any food processing plant in the Northwest.

In view of the need for early completion of essential plant capabilities in order to be operable this summer, we are building as rapidly as plans and specifications are ready. For this reason, we will be sending drawings and specifications somewhat on a piecemeal basis. We trust we may have your cooperation in this approach.

With regard to the two points raised in your letter, we offer the following:

1. Drawings are now proceeding which make provision for a waste collection system which will permit strong and weak wastes to be separated from any processing line. This is being done by running two main-line gutters across all collection gutters, one line at a lower elevation than the other.

All process lines will discharge into collection gutters normally connected to the strong-waste main-line gutter but a "flume insert" will permit any collection gutter to jump the strong-waste line and discharge into the weak-waste mainline.

We know of no other processing plant which has gone to the expense of incorporating a gutter system of this extent and versatility.

Water Pollution Control
Oregon State Board of Health

RECEIVED

MAR 26 1968

-----DNF-----TEMP-----PERM

March 22, 1968

2. With regard to irrigation rates for the 1968 season, you will note that our proposal visualizes:
 - a. During pea processing, an application equal to an average of less than 0.14 inches per day on 150 acres. This rate equals about 0.96 inches per week on ground which, for many years, has been irrigated at the rate of 3 inches per week.
 - b. During the 10-day overlap of pea and bean processing, it is expected that 1.3 MGD may go to irrigation. If the rate of application during this time is found to be only 0.17 inches per day, as you cite, any excess flows may be directed to aeration and holding ponds since there will be 13 million gallons of excess storage available.

It thus appears that with 150 acres available for irrigation, the rates of application will not exceed the rates which you cite.

In response to your invitation to comment on the permit conditions, we offer the following:

Item 5. a. "No wastes shall be discharged to public waters."

It is our contention that there will be times when plant wastes have been treated or diluted in such a manner that they will not adversely affect public waters. In this event, we should be able to release such wastes.

The above reasoning also appears applicable to your Paragraph 6.a.

In this same light, we recommend the Authority take into account the very real likelihood that downstream irrigators may wish to utilize treated wastes from our plant. Such wastes would never reach the Little Pudding River and under such conditions, it would not seem necessary to deny these irrigators this opportunity.

Item 7.a. "Production Information"

1. We assume "operating schedule" refers to naming the products processed.
2. We assume "qualitative production information" refers to the type of pack.

"Quantitative pack data" is considered to be an item of in-house information.

Item 7. c. "Industrial waste biological treatment system."

Subpar. 3. "BOD and Suspended Solids"

We recommend BOD tests be made twice weekly on composite sample for influent and effluent. Variation in values is not great enough to warrant tests more frequently.

Suspended Solids tests are recommended on a twice-weekly basis for aeration basin mixed liquor and effluent only; once weekly for aeration basin influent.

Subpar. 4.
and 5. "General Observations" and "Stage Level"

These items do not vary sufficiently to warrant observations more than weekly. This also applies to Item 7 d.3. "Stage level in holding pond."

Item 7. e. "Effluent Discharges (November 1, to May 1)"

Subpar. 3. "General Observations"

Dissolved oxygen, BOD tests and temperature readings above and below the outfall should not be the responsibility of Mainline.

It is the intent of Mainline Foods, Inc. to comply with the Sanitary Authority and the state code and laws which it is committed to interpret and administer and we subscribe to the need for protection of the public interest in both water and air pollution. We are certain it was not the intent of the law to place an undue economic hardship and burden on industry and within this scope Mainline Foods will cooperate and assist the Sanitary Authority in design and construction of facilities by furnishing sufficient information to properly evaluate our industrial and domestic waste systems.

Alert management requires regular and periodic observation and reporting of the flow of wastes and from these sources

Oregon State Sanitary Authority

-4-

March 22, 1968

data will be readily available. It is the intent of Mainline Foods to always comply with the State of Oregon's laws for control of industrial wastes.

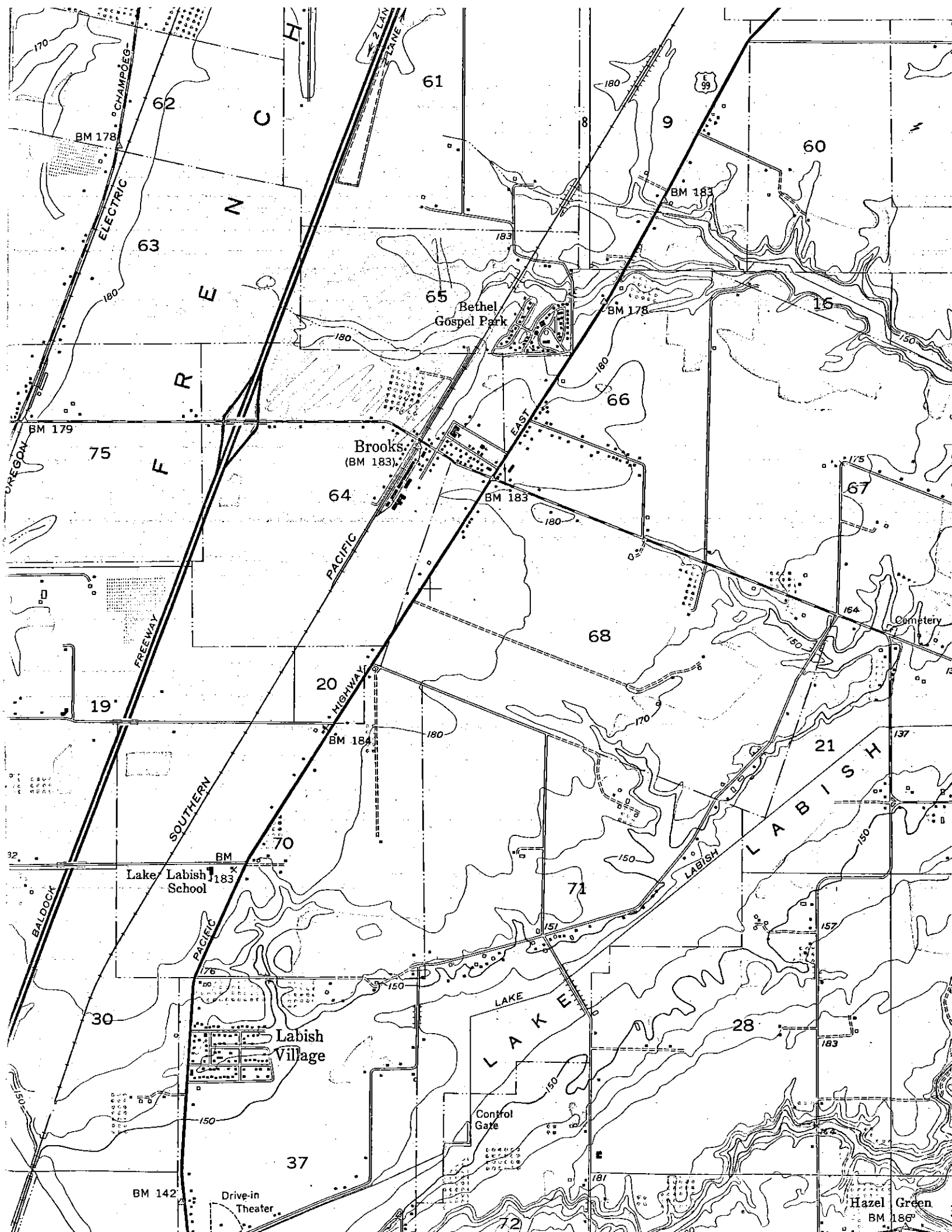
Very truly yours,

MAINLINE FOODS, INC.



F. A. DAVEY
President

FAD:ch



SUMMARY OF THE SIGNIFICANT RECOMMENDED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Klamath Tallow Company	Rendering	12/31/68 <i>9-30-68</i>	--	--	--	Provide secondary treatment or equivalent control by June 1, 1968
La Grande Concrete Pipe Company	Gravel washing	3/31/70	--	--	--	Minimize waste discharges. Create no bottom deposits in Grande Ronde River.
Rogers Asphalt Paving Co. (Island City)	Scrubber wash waters	3/31/70	--	--	--	Minimize waste discharges. Provide additional settling basin before 1968 season.
Rogers Walla Walla, Inc. (Athena)	Cannery	9/30/69	--	--	--	Dispose of process wastes so that none reach Wild Horse Creek.
Rogers Walla Walla, Inc. (Milton-Freewater)	Cannery	9/30/69	--	--	--	Dispose of process wastes to Milton-Freewater industrial waste system.
Shippers' Car Line (Portland)	Wash waters	12/31/69	--	--	--	Discharge no wastes to Willamette River. Connect to city sewer when available.
Weyerhaeuser Company (Klamath Falls)	Wood products	3/31/69 <i>3/31/69</i>	-- <i>Deleted</i>	--	--	Provide domestic waste treatment by October 1, 1968. Provide secondary treatment of mill wastes by 3/31/69.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Klamath Tallow Company
Expiration Date: 12/31/68 *12-31-68*
Application No.: 246
Date Received: 12/1/67
County: Klamath
River Basin: Klamath
Receiving Stream: Klamath River
River Mile: 249.4

1. "Wastes," as used in this permit, refers to industrial process waters from the gut washer and floor drains, barometric condenser water, and all cooling water and other liquid waste discharges cited in the permit application subject to the limitations and provisions imposed by the conditions of this permit.
2. Approved secondary treatment facilities, or equivalent control of total plant wastes discharged to the Klamath River, shall be placed in operation by June 1, 1968. (85% reduction of BOD and Suspended Solids, and effective disinfection of all wastes.)
3. Sanitary sewage shall be disposed of to a septic tank and drain field system which has been installed in accordance with the recommendations of the Oregon State Board of Health and the local county health department or by other approved means.
4. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
5. All information, reports or other data that the Sanitary Authority may reasonably require to carry out the intents and purposes of ORS Chapter 449 and regulations thereunder shall be promptly provided in writing.
6. Whenever a change which results in an increase in the wastes to be discharged is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
7. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions relating to this permit.
8. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

9. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.

March 4, 1968

Klamath Tallow Company
P. O. Box 1221
Klamath Falls, Oregon 97601

Attention: Mr. George Cunha, President

Gentlemen:

Re: Waste Discharge Permit
Application No. 246

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded to you, if significant changes are made, and to members of the Sanitary Authority.

You will note that condition No. 2 requires that secondary treatment of all wastes discharged to the Klamath River, or some equivalent means of control, must be placed in operation by June 1, 1968. We understand that you have land available adjacent to the plant where wastes can be disposed of by land irrigation during the summer months. If approved waste treatment facilities are not installed by June 1, 1968, it will be necessary for you to use these lands for irrigation disposal on a temporary basis until such facilities are completed and placed in operation.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on Friday, March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours;

Kenneth H. Spies
Secretary & Chief Engineer

NLS:an
Attachment

cc: Bond District Office
Mr. W. F. Perley, Engineer

Klamath Tallow Co.

P. O. BOX 1221

TU 4-4685

KLAMATH FALLS, OREGON

382-6446

March 15, 1968

State of Oregon
Oregon State Sanitary Authority
P. O. Box 231
Portland, Oregon 97207

Attn: Kenneth H. Spies

Re: Waste Discharge Permit
Application #246

Gentlemen:

We ask you to reconsider your May deadline for the completion of our wastetreatment facilities and favor our proposal for the November date.

We have dug test holes in various locations and find that the water level at this time is very near the surface and will not support heavy equipment. Our ideal location will be dry in the summer and construction then will be easy.

Due to the contour of our land, we are afraid that the run off from irrigation disposal will create serious problems with our neighbors or will end up back in the river, anyway. Also, an irrigation system would compound our cost and it would only be for a few months.

In the meantime we will build our in plant equipment to remove most of the solids before discharging into the river.

May we have your decision at your earliest possible convenience.

Very truly yours,



GEORGE J. CUNHA, Pres.

GJC/lc

cc: Joseph A. Jensen
W. F. Perley, Bend Dist. Office

OREGON STATE SANITARY AUTHORITY
STATE OFFICE BUILDING
1400 S. W. 5TH AVENUE
PORTLAND, OREGON 97201

Received: MAR 19 1968

File No. 246

March 19, 1968

Klamath Tallow Co.
P. O. Box 1221
Klamath Falls, Oregon 97601 Re: IW 1-2-1 Klamath Tallow

Gentlemen:

This is in reference to your letter dated March 15, 1968, in which you requested extension of your May deadline for secondary waste treatment or equivalent control to November 1968.

We would concur that the construction of a complete secondary treatment system by May 1968 is probably not feasible but it is our thinking that equivalent control can be provided by June 1, 1968.

An implementation plan as part of the Water Quality Standards has been adopted by the Sanitary Authority with the May 1968 date established for correction of the pollution problem.

It is the staff's opinion that there is ample land available for land disposal this summer and this method of disposal may well fit into your long range plans for effective control of your waste discharge.

We, therefore, feel that we must recommend to the Sanitary Authority that the June 1, 1968, deadline be retained in your waste discharge permit. This matter will be acted upon by the Sanitary Authority at its meeting on March 29, 1968. The meeting is scheduled for 10 a.m., Room 36, State Office Building, 1400 S. W. Fifth, Portland, Oregon.

COPY

Klamath Tallow Co.

2.

March 19, 1968

You may appear and personally state your situation before the Sanitary Authority members if you so desire.

A complete review of the final plans has not been completed as of this date and will be discussed in further detail with your consulting engineer.

Very truly yours,

Joseph A. Jensen, Chief
Water Pollution Control Program

RCS:lb

cc: W. F. Perley & Associates
cc: Bend District Office
cc: H. L. Sawyer

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant : LA GRANDE CONCRETE PIPE CO., Island City
Expiration Date : March 31, 1970
Application No. : 154
Date Received : November 30, 1967
County : Union
River Basin : Grande Ronde
Receiving Stream : Grande Ronde
River Mile : 160.0

1. The word "waste" as used in this permit, refers to the total volume of gravel washing waters to be discharged from the facilities operated by the permittee.
2. All plant processes and waste treatment and disposal facilities shall be operated and maintained at all times at maximum efficiency and in a manner which will minimize waste discharges.
3. No wastes shall be discharged and no activities shall be conducted which, either alone or in combination with other wastes or activities will cause the formation of appreciable bottom or sludge deposits or the formation of any organic or inorganic deposits deleterious to fish or other aquatic life, or injurious to public health, recreation, or industry in the waters of the Grande Ronde River.
4. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
5. Whenever a change which results in an increase in the wastes to be discharged is anticipated, a new application shall be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
6. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions relating to this permit.

7. This permit is subject to termination if the Sanitary Authority finds:
(a) that it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted; (b) that there has been a violation of any of the conditions contained herein.

8. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant : ROGERS ASPHALT PAVING CO., Island City
Expiration Date : March 31, 1970
Application No. : 155
Date Received : November 30, 1967
County : Union
River Basin : Grande Ronde
Receiving Stream : Grande Ronde
River Mile : 160.0

1. The word "waste" as used in this permit, refers to the wash water used in scrubber operation.
2. All plant processes and waste treatment and disposal facilities shall be operated and maintained at all times at maximum efficiency and in a manner which will minimize waste discharges.
3. All waste waters will be discharged to treatment facilities operated and maintained by LaGrande Concrete Pipe Co.
4. An additional settling basin should be provided before the 1968 operating season and incorporated into the gravel-sand filter.
5. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
6. Whenever a change which results in an increase in the wastes to be discharged is anticipated, a new application shall be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
7. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions relating to this permit.

8. This permit is subject to termination if the Sanitary Authority finds:
(a) that it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted; (b) that there has been a violation of any of the conditions contained herein.
9. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant : ROGERS WALLA WALLA, INC., Athena
Expiration Date : September 30, 1969
Application No. : 304
Date Received : December 5, 1967
County : Umatilla
River Basin : Umatilla
Receiving Stream : Wild Horse Creek
River Mile : 18.0

1. Uncontaminated cooling waters may be discharged to the waters of Wild Horse Creek.
2. Sanitary wastes shall be disposed of by discharge to the Athena municipal sewerage system or by other approved means.
3. All other process waste waters shall be controlled and disposed of in a manner such that they will not reach the waters of Wild Horse Creek.
4. In the event the permittee is temporarily unable to comply with any of the conditions of this permit due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
5. Whenever a change which results in an increase in the wastes to be discharged is anticipated, a new application shall be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
6. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions relating to this permit.
7. This permit is subject to termination if the Sanitary Authority finds:
(a) that it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted; (b) that there has been a violation of any of the conditions contained herein.
8. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant : ROGERS WALLA WALLA, INC., Milton-Freewater
Expiration Date : September 30, 1969
Application No. : 290
Date Received : December 5, 1967
County : Umatilla
River Basin : Walla Walla
Receiving Stream : Little Walla Walla River
River Mile : 42.5 (Walla Walla River)

1. Uncontaminated cooling water may be discharged to the waters of the Little Walla Walla River.
2. Sanitary wastes shall be disposed of by discharge to the Milton-Freewater municipal sewerage system or by other approved means.
3. All other process waste waters shall be disposed of by discharge to the Milton-Freewater municipal industrial waste system.
4. In the event the permittee is temporarily unable to comply with any of the conditions of this permit due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
5. Whenever a change which results in an increase in the wastes to be discharged is anticipated, a new application shall be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
6. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions relating to this permit.
7. This permit is subject to termination if the Sanitary Authority finds:
(a) that it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted; (b) that there has been a violation of any of the conditions contained herein.
8. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.

Accepted

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Shippers' Car Line
Expiration Date: 12/31/69
Application No.: 320
Date Received: 12/8/67
County: Multnomah
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 3.5

1. The words "waste" or "effluent," as used in this permit, refer to wash waters and sanitary wastes.
2. The permittee shall negotiate with the City of Portland to accept all of the permittee's wastes subject to any pretreatment the city may require. The permittee shall connect to the city's interceptor sewer system within 30 days of the completion of the sewer adjacent to the permittee's property. The permittee shall notify the Sanitary Authority when connection is completed.
3. In the interim period, until the permittee is connected to the City of Portland interceptor sewer, no wastes shall be directly discharged to the waters of the Willamette River.
4. Sanitary wastes shall be disposed of to a septic tank and drain field system which has been installed in accordance with the recommendations of the Oregon State Board of Health and the local county health department .
5. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
6. Whenever a change in the method of waste disposal, other than connection to the city sewer, is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
7. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for purposes of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions relating to this permit.
8. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Weyerhaeuser Company, Klamath Falls
Expiration Date: 3/31/69 *revised 01/11/68*
Application No.: 215
Date Received: 12/1/67 *extended 1/1/68*
County: Klamath
River Basin: Klamath
Receiving Stream: Klamath River
River Mile: 246.5 *246.5*

1. "Wastes", as used in this permit, refers to sanitary wastes, industrial process waters, cooling waters, and other liquid waste discharges cited in the permit application subject to the limitations and provisions imposed by the conditions of this permit.
2. A detailed program shall be submitted to the Sanitary Authority by not later than April 8, 1968, for providing by not later than March 31, 1969, secondary treatment or equivalent year-round control of total mill wastes. (At least 85% reduction of BOD and Suspended Solids).
3. A detailed program shall be submitted to the Sanitary Authority by not later than April 1, 1968, for providing by not later than October 1, 1968, secondary treatment (85% removal of BOD and Suspended Solids and effluent chlorination) or disposal by other approved means of the total sanitary wastes.
4. All plant processes and equipment and all waste treatment and control facilities shall be operated and maintained at all times at maximum efficiency and in a manner which will minimize waste discharges.
5. The company shall effectively monitor its waste discharges and submit reports of daily data to the Sanitary Authority immediately following the end of each calendar month. Unless otherwise agreed to by the Sanitary Authority, data shall be collected daily for the following parameters:
 - a. Flow
 - b. pH
 - c. Temperature
 - d. Turbidity
 - e. Color
 - f. Biochemical Oxygen Demand
 - g. Suspended Solids
 - h. Production
 - i. General observations of outfall and river (relating to waste discharge plume).
 1. Discoloration
 2. Foam
 3. Odor
 4. Slime
 5. Deposits
 - j. Flow and temperature for any separate clean cooling water discharges.

6. In the event the permittee is temporarily unable to comply with any of the above conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence.
7. Authorized representatives of the Sanitary Authority shall be permitted access to the plant premises at all reasonable times for the purposes of making inspections or surveys and for collecting samples or obtaining data and carrying out other necessary functions related to this permit.
8. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with plans and specifications for proposed changes. No change shall be made until plans are approved and a new permit issued.
9. This permit is subject to termination if the Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application.
 - b. That there has been a violation of any of the conditions thereof.
 - c. That a material change in quantity or type of waste disposal exists.
10. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Authority may specify additional conditions to this permit.

SUMMARY OF THE SIGNIFICANT COMMENDED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Astoria	Domestic	12/31/70	--	--	--	Provide secondary treatment by 12/31/70
Nehalem	Domestic	12/31/69	--	--	--	Provide secondary treatment by 12/31/69
Reedsport	Domestic	12/31/69 <i>6-30-69</i>	--	--	--	Provide secondary treatment by 12/31/69
Bandon	Domestic	12/31/69 <i>8-31-69</i>	--	--	--	Provide secondary treatment by 12/31/69

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Astoria
Expiration Date: 12/31/70 *Nov 1, 1968*
Application No.: 242
Date Received: 12/1/68
County: Clatsop
River Basin: North Coast
Receiving Waters: Columbia River and Youngs Bay
River Mile: 13 - 18 (Columbia River)

1. The city shall proceed to plan, finance, construct, and place in operation an approved system for intercepting all waste discharges and approved facilities which will provide secondary treatment (85% reduction of BOD and Suspended Solids and effluent disinfection), or equivalent control of all wastes within and not to exceed the following time schedule:

- a. Submit to the Sanitary Authority by not later than April 15, 1968, a copy of a signed contract with a qualified engineering firm for engineering services as required to initiate and carry out an acceptable sewerage program. *until June 1*
- b. Preliminary study completed and report submitted to the Sanitary Authority by not later than December 31, 1968. *July 1, 1968* *12-15 months for*
- c. Detailed plans and specifications for the interceptor and treatment works submitted and approved and financing arranged by not later than June 1, 1969. *12-15 months for*
- d. Total project completed and placed in operation by not later than December 31, 1970. *July 1, 1972* *12-18 month interception*

Finance
Nov 1, 1969

delete

revise

- 2. The city shall not expand or extend its sewer system or allow any new or additional industrial waste discharges to the city sewerage system until adequate waste treatment or control is provided. *S.A. approval*
- 3. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
- 4. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

February 20, 1968

The City of Astoria
1095 Duane Street
Astoria, Oregon 97103

Attention: Mr. Dale F. Curry, City Manager

Gentlemen:

Re: Waste Discharge Permit
Application No. 242

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 15, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

At its meeting on December 28, 1967, the Sanitary Authority considered the current shortage of federal and state construction grant monies and also the uncertainties as to the availability of such grant funds in the future. The Authority members concluded that the state's Water Pollution Control Program could not be made dependent upon the availability of state or federal grants and that necessary treatment works should not be delayed because of the lack of grant funds. The staff was instructed to proceed on the basis that communities finance their own projects without waiting for federal and state grants. Therefore, in your program planning, the city should be prepared to prefinance 100 per cent of its sewerage project costs with the expectation of reimbursement in the amount of eligible federal grants as grant funds become available. Federal statutes provide for such reimbursement. Reimbursement under the state construction grants program would require a change in the existing state statutes.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on Friday, March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer
State Sanitary Authority

EJW:an
Attachment

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Nehalem
Expiration Date: 12/31/69
Application No.: 258
Date Received: 12/4/67
County: Tillamook
River Basin: North Coast
Receiving Stream: Nehalem River
River Mile: 1.5

1. In accordance with the proposed schedule submitted in application No. 258, the permittee shall proceed immediately to construct and place into operation before December 31, 1969, approved waste treatment facilities adequate to insure that:
 - a. The monthly average daily concentrations of 5-day, 20° C. Biochemical Oxygen Demand (BOD) in effluent discharges shall not exceed 30 mg/l.
 - b. The monthly average daily concentrations of Suspended Solids in effluent discharges shall not exceed 30 mg/l.
 - c. Effluent discharges shall receive continuous and effective disinfection equivalent to 0.5 ppm chlorine residual after 60 minutes of chlorine contact time based on average design flows.
2. The city shall not expand or further extend its sewer system or permit additional connections or discharges thereto until adequate waste treatment is provided.
3. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
4. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

March 4, 1968

City of Nehalem
Box 143
Nehalem, Oregon 97131

Attention: The Honorable Charles S. Baker, Mayor

Gentlemen:

Re: Waste Discharge Permit
Application No. 258

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

At its meeting on December 28, 1967, the Sanitary Authority considered the current shortage of Federal and state construction grant monies and also the uncertainties as to the availability of such grant funds in the future. The Authority members concluded that the state's Water Pollution Control Program could not be made dependent upon the availability of state or federal grants and that necessary treatment works should not be delayed because of the lack of grant funds. The staff was instructed to proceed on the basis that communities finance their own projects without waiting for federal and state grants. Therefore, in your program planning, the city should be prepared to prefinance 100 per cent of its sewerage project costs with the expectation of reimbursement in the amount of eligible federal grants as grant funds become available. Federal statutes provide for such reimbursement. Reimbursement under the state construction grants program would require a change in the existing state statutes.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on Friday, March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer

HLS:an
Attachment
cc: Portland District Office

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Reedsport
Expiration Date: 12/31/69 *JUN 30 1968*
Application No.: 151
Date Received: 11/30/67
County: Douglas
River Basin: Umpqua
Receiving Stream: Umpqua River and Schofield River
River Mile: 11.0 and 0.5, respectively

1. The city shall submit, prior to June 1, 1968, complete and detailed plans and specifications and a complete and detailed program and time schedule for financing and constructing by not later than December 31, 1969, an approved system for intercepting all waste discharges and approved waste treatment facilities adequate to insure that:
 - a. The monthly average daily concentrations of 5-day, 20° C. Biochemical Oxygen Demand (BOD) in effluent discharges shall not exceed 30 mg/l.
 - b. The monthly average daily concentrations of Suspended Solids in effluent discharges shall not exceed 30 mg/l.
 - c. Effluent discharges shall receive continuous and effective disinfection equivalent to 0.5 ppm chlorine residual after 60 minutes of chlorine contact time based on average design flows.
2. The city shall not expand or further extend its sewer system or permit additional industrial waste connections or discharges thereto until adequate waste treatment is provided.
3. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
4. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Bandon
Expiration Date: 12/31/69 231-115
Application No.: 115
Date Received: 11/29/67
County: Coos
River Basin: South Coast
Receiving Stream: Coquille River
River Mile: 0.5 to 1.0

1. The city shall submit, prior to June 1, 1968, complete and detailed plans and specifications and a complete and detailed program and time schedule for financing and constructing by not later than December 31, 1969, an approved system for intercepting all waste discharges and approved waste treatment facilities adequate to ensure that:
 - a. The monthly average daily concentrations of 5-day, 20° C. Biochemical Oxygen Demand (BOD) in effluent discharges shall not exceed 30 mg/l.
 - b. The monthly average daily concentrations of Suspended Solids in effluent discharges shall not exceed 30 mg/l.
 - c. Effluent discharges shall receive continuous and effective disinfection equivalent to 0.5 ppm chlorine residual after 60 minutes of chlorine contact time based on average design flows.
2. The city shall not expand or further extend its sewer system or permit additional industrial waste connections or discharges thereto until adequate waste treatment is provided.
3. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
4. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

February 20, 1968

City of Bandon
Bandon, Oregon 97411

Attention: Mr. John H. Fasmacht, Manager of Utilities

Gentlemen:

Re: Waste Discharge Permit
Application No. 115

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 15, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

At its meeting on December 28, 1967, the Sanitary Authority considered the current shortage of federal and state construction grant monies and also the uncertainties as to the availability of such grant funds in the future. The Authority members concluded that the state's Water Pollution Control Program could not be made dependent upon the availability of state or federal grants and that necessary treatment works should not be delayed because of the lack of grant funds. The staff was instructed to proceed on the basis that communities finance their own projects without waiting for federal and state grants. Therefore, in your program planning, the city should be prepared to prefinance 100 per cent of its sewerage project costs with the expectation of reimbursement in the amount of eligible federal grants as grant funds become available. Federal statutes provide for such reimbursement. Reimbursement under the state construction grants program would require a change in the existing state statutes.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on Friday, March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer
State Sanitary Authority

EJW:an
Attachment

G. E. WALDROP, MAYOR
JOHN H. FASNACHT, TREASURER, UTILITIES MANAGER
WM. M. DONAHUE, ASS'T MGR.
R. V. BACKLUND, RECORDER
DON. S. MACDONALD, CHIEF OF POLICE
ROBERT F. SCHULTZ, FIRE CHIEF
CHAS. YARBROUGH, MUNICIPAL JUDGE
ALICIA R. LEUTHOLD, LIBRARIAN

DEEP WATER HARBOR
BANDON-BY-THE-SEA

COUNCILMEN
VERN BROWN
THOMAS C. BANT
DON GODDARD
DON M. FIERCE
GEORGE K. STEEDEN
HOWARD TUCKER

CITY OF BANDON

BANDON, OREGON 97411

MUNICIPAL LIGHT, POWER, WATER, SEWER
PUBLIC LIBRARY

LUMBERING AND AGRICULTURE
"CRANBERRY CAPITAL OF OREGON"

March 14, 1968

File No.

OREGON STATE SANITARY AUTHORITY
Waste Disposal Program

Received: MAR 1968

App. No. 115

Oregon State Sanitary Authority
1450 S.W. Fifth Avenue
Portland, Oregon 97201

Att: Mr. Kenneth H. Spies, Secretary and Chief Engineer

Gentlemen:

Re: Waste Discharge Permit
Application Number 115

Please refer to your letter of February 20th, 1968 and the visit of Mr. Sheetz of your office to the City of Bandon concerning a time schedule for completion of the interceptor sewer and sewage treatment plant for the City of Bandon.

We have been in contact with Cornell, Howland, Hayes & Merryfield, our engineers on this project, and they have advised us that the time schedule as worked out with Mr. Sheetz will be difficult to meet. The treatment plant will be constructed on a fill placed on the tide flats. These conditions impose serious foundation problems for the treatment plant. To reduce the cost of the plant, CH₂M has proposed that the site be preloaded in hopes that this will preclude the need for a pile foundation. It will take at least 6 months from the completion of the preload for the effectiveness of the preload to be determined. To insure minimum construction cost, CH₂M has recommended that the treatment plant foundation not be designed until the results of the preload are known. This would delay the completion of construction approximately 8 months beyond the date indicated in your letter of February 20.

Oregon State Sanitary Authority

March 14, 1968

In view of the above, we request that the Sanitary Authority adopt the following time schedule for construction of an interceptor sewer and sewage treatment plant for the City of Bandon:

April 15, 1968	Call for bids to fill plant site.
June 1, 1968	Award preload contract.
October 1, 1968	Complete preload contract.
April 1, 1969	Preload settlement test completed.
July 1, 1969	Complete plans and specifications for treatment plant and interceptor sewer.
August 1, 1969	Bond election.
September 1, 1969	Advertise for bids on plant and interceptor.
October 15, 1969	Award contract.
August 1, 1970	Complete construction.

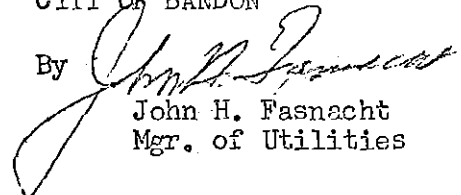
Because of the doubt expressed by the Sanitary Authority concerning construction grants, every effort must be made by the City of Bandon to keep construction costs on this project to a minimum. We feel that this time schedule will provide the most economical solution.

Your approval of this time schedule is respectfully requested.

Very truly yours,

CITY OF BANDON

By



John H. Fasnacht
Mgr. of Utilities

March 21, 1968

City of Bandon
Bandon, Oregon 97411

Attention: Mr. John H. Fasnacht, Manager of Utilities

Gentlemen:

Re: Waste Discharge Permit
Application No. 115

We have received your letter of March 14, 1968, in which you request an 8-month extension of the deadline for providing secondary treatment for the City of Bandon. The staff will present your request to the members of the Sanitary Authority at the meeting on March 29, 1968, with the recommendation that the permit conditions be changed to incorporate the new schedule proposed in your letter.

The Sanitary Authority will meet at 10:00 A.M. in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, on March 29, 1968. You are invited to attend this meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary and Chief Engineer

HLS:an

cc: Medford District Office

SUMMARY OF THE SIGNIFICANT COMMENTED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Ashland	Domestic	6/30/69	--	700 lbs/day	700 lbs/day	(85% reduction)
Medford	Domestic	6/30/70 9/30/69	--	--	--	Reduce industrial loads by 1968 fruit processing season. Provide improved treatment by 1970. Provide program to reduce storm water by July 1, 1969.
Jacksonville	Domestic	6/30/69	0.16 MGD	30 mg/L (40 lbs/day)	30 mg/L (40 lbs/day)	
Knoxtown San. Dist.	Domestic	3/31/70	--	--	--	Construct fences and post No Trespassing signs by June 1, 1968.
Umatilla	Domestic	12/31/70	0.35 MGD	140 mg/L (410 lbs/day) Interim	140 mg/L (410 lbs/day) Interim	Submit program by 7/1/70 for providing secondary treatment by 7/1/72.
Rice Hill	Domestic	12/31/70	--	--	--	No discharge June 1-Nov. 1. Construct fences and post No Trespassing signs before June 1, 1968.
Pilot Rock	Domestic	12/31/72	0.25 MGD	--	--	(No overflow at present.)
Lake Owyhee Resort	Domestic	9/30/69	--	--	--	Minimize waste discharges.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Ashland
Expiration Date: 6/30/69
Application No.: 71
Date Received: 11/24/67
County: Jackson
River Basin: Rogue
Receiving Stream: Ashland Creek
River Mile: 0.5

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Ashland Creek shall be governed by the following:
 - a. The monthly average quantity of 5-day 20° C. BOD in the effluent discharged shall not exceed 700 pounds per day (lbs/day).
 - b. The monthly average quantity of Suspended Solids in the effluent discharged shall not exceed 700 lbs/day.
3. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter (mg/l) after 60 minutes of contact time at the average design flow.
4. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
5. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
7. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

March 6, 1968

City of Ashland
City Hall
Ashland, Oregon 97711

Attn: Mr. Gary L. Boshears
City Administrator

Re: Waste Discharge Permit
Application No. 71

Gentlemen:

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

The Waste load limitations imposed by this permit are based on the calculated design capacity of your present treatment facility using a design flow of 2.85 mgd and 30 mg/l of BOD in the treated effluent.

In as much as the flow in Bear Creek becomes extremely low during a critical part of the year, it is anticipated that presently assigned loads cannot be increased and it will become necessary to reduce waste concentrations of BOD and suspended solids in the effluent to 20 mg/l in the future.

Therefore, additional raw waste loads will have to be accommodated at the expense of increased treatment efficiency or the use of alternative disposal methods at least during the low stream flow months.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 35, State Office Building, 1400 S.W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer

KHS/cf
Attachment

cc: Medford District Office

CITY ADMINISTRATOR

Gary L. Boshears



CITY HALL

503-482-3211

City of Ashland

ASHLAND, OREGON

97520

March 19, 1968

File No.
OREGON STATE SANITARY AUTHORITY Waste Discharge Permit Program
Received: MAR 20 1968
App. No. 71

Kenneth H. Spies
Secretary and Chief Engineer
Oregon State Sanitary Authority
1400 S.W. 5th Avenue
Portland, Oregon 97201

RE: Waste Discharge Permit Application No. 71

Dear Mr. Spies:

This letter is an appeal to the waste load limitations proposed for the City of Ashland sewage treatment plant and we hereby request that it be read into the record at the Sanitary Authority meeting of March 29, 1968, to be held at 1400 S.W. 5th Avenue, Portland, Oregon.

The City requests reconsideration of items 2(a) and 2(b) of the recommended waste discharge permit conditions which deal with monthly average quantities of B.O.D. and suspended solids for the following reasons:

1. The treatment plant was designed for a flow of 2.85 mgd and at present the average daily flow is about 1.50 mgd or roughly 51%.
2. The design B.O.D. removal is 85% and at present the plant is operating within this limit.
3. Since the plant is operating within the approved design criteria, we do not feel that the City of Ashland should be penalized for normal population growth up to the approved design capacity.

We understand that the allowable quantity of B.O.D. and suspended solids for each watercourse has been divided arbitrarily among

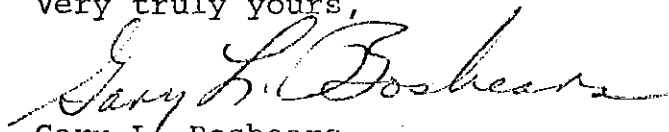
Kenneth H. Spies
March 19, 1968
Page 2

those cities discharging waste therein. It should be noted that Ashland's treatment plant has consistently been used as an example of effective removal and referred to as the best in the Rogue River Basin and one of the better plants in the State.

Since the Ashland treatment plant cannot meet the specified high effluent quality under the proposed waste discharge permit conditions at this time, we hereby request reconsideration of items 2(a) and 2(b) to read as follows:

2. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Ashland Creek shall be governed by the following:
 - (a) The monthly average quantity of 5-day 20° C B.O.D. in the effluent discharged shall not exceed 850 pounds per day (lbs./day).
 - (b) The monthly average quantity of Suspended Solids in the effluent discharged shall not exceed 800 pounds per day (lbs./day).

Very truly yours,


Gary L. Boshears
City Administrator

GLB:srp

cc: Leo Baton, District Sanitary Engineer
Allen Alsing, Director of Public Works

March 21, 1968

City of Ashland
City Hall
Ashland, Oregon 97711

Attention: Mr. Gary L. Boshears, City Administrator

Gentlemen:

Re: Waste Discharge Permit
Application No. 71

Your letter of March 19, 1968, requesting modifications in our recommended Waste Discharge Permit conditions, has been received and will be presented to the Sanitary Authority at its meeting on March 29, 1968.

The Sanitary Authority staff has given your recommended permit conditions further consideration and cannot agree with the modifications you have requested. Therefore, the staff will recommend that a permit be issued containing the conditions as originally prepared. You are urged to attend the meeting of the Sanitary Authority to present your request and answer any questions which might arise. This meeting will begin at 10:00 A.M. on March 29, 1968, in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon.

Very truly yours,

Kenneth H. Spies
Secretary and Chief Engineer

HLS:an

cc: Medford District Office

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Medford

Expiration Date: 6/30/70

Application No.: 311

Date Received: 12/7/67

County: Jackson

River Basin: Rogue

Receiving Stream: Rogue River

River Mile: 130.5

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. The permittee shall submit by July 1, 1968, a program for substantially reducing industrial waste loads to the sewage treatment plant beginning with the 1968 fruit processing season.
3. The permittee shall submit by September 1, 1968, a program for providing by July 1, 1970, treatment facilities which will effect at least 90% reduction of Biochemical Oxygen Demand (BOD) and Suspended Solids with the monthly average BOD concentration in the effluent not to exceed 20 milligrams per liter (mg/l) during low river flow periods (approximately June 1 - November 1) each year.
4. The permittee shall submit by not later than July 1, 1969, a complete and detailed study and program for controlling infiltration and storm water access to sanitary sewers and by-passing of untreated or inadequately treated wastes.
5. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
6. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
7. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

8. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
9. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
10. No additional source of waste may be connected to the treatment facility and loads presently connected shall not be increased until needed modifications are approved and constructed.
11. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

March 8, 1968

Honorable Mayor & City Council
City of Medford
Medford, Oregon 97501

Re: Waste Discharge Permit
Application No. 311

Gentlemen:

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

The recommended waste discharge permit condition No. 2 is of primary concern in the immediate future. During the 1967 canning season, waste discharge loads from the sewage treatment facility were five to six times greater than those for which the plant was designed. Significant reductions in industrial waste loads can be accomplished by improved screening and greater in-plant control. The city must take the initiative in reducing these loads.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S.W. Fifth Avenue, Portland, Oregon, beginning at 10:00 a.m. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
State Sanitary Engineer

HLS:ck

Attachment

cc: Medford District Office

file



File No.

OREGON STATE SANITARY AUTHORITY
Waste Discharge Permit Program

Received: MAR 22 1968

Appl. No. 311

PUBLIC WORKS DEPARTMENT

CITY OF MEDFORD

MEDFORD, OREGON

March 18, 1968

Mr. Kenneth H. Spies
Oregon State Sanitary Authority
1400 S.W. 5th Avenue
Portland, Oregon 97201

Dear Mr. Spies:

Re: Waste Discharge Permit Application No. 311

We apologize for being a day or two late in filing an answer to your letter of March 8th which was to have been submitted to you before March 18th.

We are attaching answers to the 14 permit conditions that were attached to your letter.

As added information, the City Council has authorized a consulting engineering firm to prepare plans and specifications for a 10 MGD Sewage Treatment Plant. The firm has not been selected yet, but the City Manager and staff have been interviewing consulting firms for this purpose. The City Council is also prepared to authorize a bond issue and call for bids on the construction for this sewage treatment plant.

Weekly meetings have been held with the Bear Creek Sanitary Authority Manager, and CH2M Engineer's and City of Medford representatives in preparing a proposed sewer system for the entire area.

Please advise us if there are any answers to the 14 conditions you have outlined that has not been satisfactorily prepared and if there is additional information that we may be able to obtain for you.

Very truly yours,

G.J. Gutjahr
City Manager

By *Vernon Thorpe*
Vernon Thorpe
Public Works Director

VT:lw
Attachment
cc: Leo Baton
Jan Niehause

CITY OF MEDFORD

TO

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Medford
Expiration Date: 6-30-70
Application No.: 311
Date Received: 12-7-67
County: Jackson
River Basin: Rogue
Receiving Stream: Rogue River
River Mile: 130.5

1. To the best of our knowledge the sewage treatment plant is operated and maintained at maximum efficiency and the operators have been doing everything possible to minimize waste discharges.
2. Sabroso Company has installed a Link Belt shaker screen 20 mesh and pump as outlined in letter from State Sanitary Authority 6-66. It will require some minor work and adjustment when pump starts. There is some spillage over the inlet box at the top of the screen.

Rogue River Cannery has a shaker screen on order and should be delivered 3-28-68. It is 20 mesh Link Belt model #MRM148.

3. The Mayor and the City Council have authorized the City Manager to employ the services of a consulting engineering firm to design a 10 million gallon per day sewage treatment plant at the present plant location to comply with the State Sanitary Authority requirements for sewage treatment plants. The Mayor and City Council also authorized the City Manager to prepare a new schedule of sewer service rates to pay for the cost of design. It is the Mayor and City Council's intent that a sewage treatment plant be designed and a bond issue be submitted to the citizens. Call for bids be made, and the plant be completed at the earliest possible date, tentatively scheduled by late 1970.

Representatives of the City of Medford have been holding weekly meetings with the representatives of The Bear Creek Sanitary Authority, cities of Central Point and Phoenix in preparing a proposed agreement for the Bear Creek Valley Area sewage system. The City Manager and staff have been interviewing consulting engineering firms for the purpose of selecting a firm for the design of the sewage treatment plant. It is the intent that the contract for this design work be executed in the very near future, the plans completed by the summer of 1969, construction started as soon after that time as possible, with completion in late 1970.

4. A complete study should be completed by July 1, 1969 for a program for controlling infiltration. A study has been under progress since 1967 with a sewer TV camera and crew surveying the City sewers for required repairs.

In addition, one rather large storm sewer contract and several city force account storm sewer projects have been underway during the past year to disconnect catch basins from the sanitary sewer systems and connect them into the storm sewer system.

5. Estimates of cost and other information is being obtained now for requesting authorization for the purchase of an additional chlorinator. A larger chlorinator should provide the necessary additional disinfectant; however, obtaining the 60 minutes of detention time will be quite an expensive construction item. We have studied the possibility of constructing a detention canal that could be made a part of the new plant. This does not appear practical, however, as we do not have enough information regarding the site plan of the proposed treatment plant.

We would certainly appreciate any advice we might be able to obtain from you on how this matter might be corrected.

6. All screenings and grit are collected in the grit chamber at the influent structure at the head of the sewage treatment plant and are removed by hand and buried at the plant site.

The sludge is discharged into sludge beds and dried. A large amount of this is used on City parks, and considerable amount is sold for landscaping and lawn fertilizers. None of this material is discharged into the effluent.

7. Complete records are maintained at the sewage treatment plant with the monthly report being submitted to your office that contains all of the information outlined in your request.

8. Reports required for the five operations in this condition No. 8 will be submitted on your prescribed forms.

We would appreciate having a supply of these forms in order that we may comply with this condition.

9. Two sewer maintenance crews are on full time basis along with one sewer rodder mounted on a truck for each crew.

In addition, a standby man is provided for, in order to give immediate sewer maintenance relief for emergency calls that occur over weekends.

10. Additional areas outside the city will not be connected to the sewer system unless we do have specific permission from your office. However, we would like to call your attention that the sewer system serving the South Bear Creek Sewer District south of the City of Medford because of its poor construction is discharging a relatively high flow into the Medford system ranging from 500,000 gallons per day to 1,200,000 gallons per day. This adds appreciably to the sewage loads.
11. The State Sanitary Authority will be notified of any breakdown of equipment as soon as it occurs, and permanent records will be maintained of these breakdowns.
12. Representatives of the Sanitary Authority have always been permitted and will continue to be permitted access to the facilities.

We welcome the help and advice we have obtained from the representatives of your office and the local office in helping us with the problems that have occurred in the past. We appreciate the help they have given us.

We have been rather disappointed with the cooperation from the laboratory in Corvallis, as we sent samples of our sludge to the laboratory in November when we were having a problem with the sludge digestion and had hoped that they would analyze the sludge and give us some idea of what might be causing the difficulty. No results were ever obtained from the laboratories.

13. If you ever feel that there is a misrepresentation in material submitted to you in either reports or applications I would hope you would call this to my attention immediately.
14. The permit or copy will be posted at the sewage treatment plant. A copy will also be kept at the City Hall for records.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Jacksonville
 Expiration Date: 6/30/69
 Application No.: 476
 Date Received: 1/2/68
 County: Jackson
 River Basin: Rogue
 Receiving Stream: Daisy Creek
 River Mile: 7.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.16 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Daisy Creek shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (40 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (40 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times per week

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information

7. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Knoxtown Sanitary District
Expiration Date: 3/31/70
Application No.: 5
Date Received: 11/8/67
County: Curry
River Basin: Creek to Pacific Ocean
Receiving Stream: Pacific Ocean

1. The permittee shall proceed immediately to construct and place into operation before June 1, 1968, approved childproof fences and lockable gates around the entire sewage lagoon. Signs shall be posted on all sides of the lagoon stating the following or its equivalent: No trespassing, Raw Domestic Sewage, by order of Knoxtown Sanitary District.
2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
3. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
4. This permit allows the construction of sewer extensions and connections up to a maximum of 100 people or equivalent of 20 homes provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
5. If and when it appears that an overflow from the lagoon will occur, the permittee shall do the following:
 - a. Immediately notify the Sanitary Authority.
 - b. Provide approved facilities to adequately disinfect the overflow.
 - c. Conduct an effluent monitoring program and submit reports in accordance with the requirements of the Sanitary Authority.
6. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
7. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.

8. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
9. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
10. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution or leakage of sewage onto the public beach shall occur, the Sanitary Authority may specify additional conditions to this permit.
11. This permit, or a photocopy thereof, shall be kept by the Secretary of the Sanitary District.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Umatilla
Expiration Date: 12/31/70
Application No.: 478
Date Received: 1/2/68
County: Umatilla
River Basin: Columbia
Receiving Stream: Columbia
River Mile: 289.0

1. The permittee shall submit by July 1, 1970, a detailed program and time schedule for providing by July 1, 1972, approved waste treatment facilities adequate to insure that:
 - a. All domestic and municipal sewage receives a minimum of secondary treatment, or equivalent (equal to 85% removal of Biochemical Oxygen Demand (BOD) and Suspended Solids (S.S.)).
 - b. The effluent receives a minimum of 60 minutes of chlorine contact time at the average design flow before being discharged from the controlled confinement of the treatment facility.
2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.350 million gallons per day (MGD).
4. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Columbia River shall be governed by the following:
 - a. The monthly average 5-day 20° C. BOD concentration in the effluent discharged shall not exceed 140 milligrams per liter (mg/l) (410 lbs./day).
 - b. The monthly average Suspended Solids concentration in the effluent discharged shall not exceed 140 mg/l (410 lbs./day).
5. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
6. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.

7. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Chlorine Residual	Daily
Pounds Chlorine Used	Daily
Flow Measurement	3 times weekly
Settleable Solids	Twice weekly
pH (raw and final)	3 times weekly

8. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
- Routine monitoring data
 - Sludge disposal information
 - By-passing information
 - Maintenance shutdown information
 - Breakdown information
9. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
10. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
11. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
12. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
13. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.

14. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
15. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
16. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Application No: 11/18/59
 Expiration Date: 11/18/60
 Application No: 94
 Date Received: 11/18/59
 County: Dagebon
 River Basin: Umpqua
 Receiving Stream: Yoncalla Creek
 River Mile: 5.5

1. The permittee shall proceed immediately to construct and place into operation before February 1, 1960, approved alligator fences and lockable gates around the entire lagoon. Signs shall be posted on all sides of the lagoon prohibiting swimming, fishing, and other recreational activities. Raw Domestic Sewage.
2. All equipment used in the lagoon shall be operated and maintained in such a manner as to minimize waste discharges.
3. During the period from August to November 15, the lagoon shall be operated such that no sewage effluent is discharged to the waters of Yoncalla Creek.
4. At all other times, the liquid effluent from the treatment facility shall be adequately disinfected prior to discharge. The effectiveness of disinfection shall be equivalent to that obtained by adequately dosing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter (mg/L) after 30 minutes of contact, based on the average design flow.
5. The permittee shall continuously monitor the operation and efficiency of the disinfection plant and the quality of the effluent discharged. A permanent record of all test data shall be maintained at the plant. Data collection and reported shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Chlorine Residual	Daily
Chlorine Application Rate	Daily
pH	Daily

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and will contain the following:

- a. Rawline monitoring data
- b. Test results of effluent
- c. Daily chlorine application information
- d. Breakdown of treatment

7. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto to a maximum population equivalent of 165 provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS.

Applicant: City of Pilot Rock
Expiration Date: 12/31/72
Application No.: 506
Date Received: 1/15/68
County: Umatilla
River Basin: Umatilla
Receiving Stream: Birch Creek
River Mile: 16.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.250 million gallons per day (MGD).
3. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Lagoon Observations	Twice weekly
Overflow Observations	Twice weekly
Flow	Daily

4. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. By-passing information
 - c. Maintenance shutdown information
 - d. Breakdown information
5. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
6. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.

7. If and when it appears that an overflow from the lagoon will occur, the permittee shall do the following:
 - a. Immediately notify the Sanitary Authority.
 - b. Provide approved facilities to adequately disinfect the overflow.
 - c. Conduct an effluent monitoring program and submit reports in accordance with requirements of the Sanitary Authority.
8. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
9. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
10. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
11. This permit, or a photocopy thereof, shall be displayed at the sewage lift station where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Lake Owyhee Resort, Nyssa
Expiration Date: 9/30/69
Application No.: 140
Date Received: 11/29/67
County: Malheur
River Basin: Snake
Receiving Stream: Owyhee River
River Mile: 25.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter (mg/l) after 60 minutes of contact time at the average design flow.
3. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
4. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Gallons Chlorine	Daily
Chlorine Residual	Daily

5. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
6. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.

7. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
8. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
9. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
10. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
11. This permit, or a photocopy thereof, shall be kept in the resort lodge.

SUMMARY OF THE SIGNIFICANT RECOMMENDED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Springfield Utility Bd.	Domestic	12/31/68	6.9 MGD	30 mg/L (1725 lbs/day)	30 mg/L 1725 lbs/day	
Eugene	Domestic	6/30/70	--	8400 lbs/day	4800 lbs/day	Submit program by 7/1/68 for providing additional clarifiers and by-pass by 7/1/70.
Harrisburg	Domestic	12/31/72	0.25 MGD	30 mg/L (63 lbs/day)	30 mg/L (63 lbs/day)	
Salem	Domestic	12/31/70	--	11,000 lbs/day	7300 lbs/day	
Newberg	Domestic	3/31/69	1.0 MGD	30 mg/L (250 lbs/day)	30 mg/L (250 lbs/day)	
West Linn (Willamette)	Domestic	12/31/71	0.375 MGD	30 mg/L (95 lbs/day)	30 mg/L (95 lbs/day)	
West Linn (Bolton)	Domestic	12/31/70	1.3 MGD	30 mg/L (315 lbs/day)	30 mg/L (315 lbs/day)	
Society of Sisters of Holy Names (Marylhurst)	Domestic	12/31/70	0.110 MGD	30 mg/L (27.5 lbs/day)	30 mg/L (27.5 lbs/day)	
City of Portland - Tryon Creek	Domestic	12/31/71	5.0 MGD	30 mg/L (1250 lbs/day)	30 mg/L (1250 lbs/day)	
Oak Lodge San. Dist.	Domestic	12/31/68	1.5 MGD	30 mg/L (375 lbs/day)	30 mg/L (375 lbs/day)	

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Springfield Utility Board
 Expiration Date: 12/31/68
 Application No.: 143
 Date Received: 11/29/67
 County: Lane
 River Basin: Willamette
 Receiving Stream: Willamette River
 River Mile: 184.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (~~equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids~~) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 6.9 million gallons per day (MGD). *(I shall provide at least 85%)*
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (1725 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (1725 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

*No change in final
conditions - same as
Preliminary.*

March 6, 1968

Springfield Utility Board
P. O. Box 300
Springfield, Oregon 97477

Attn: Jack R. Crisswell, Sup't.

Gentlemen:

Re: Waste Discharge Permit
Application No. 143

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

The sewage treatment plant performance data indicate that your facility is unable to meet the requirements of 85% BOD and suspended solids removal much of the time. A study of these conditions should be made so that they may be evaluated at the termination of this permit.

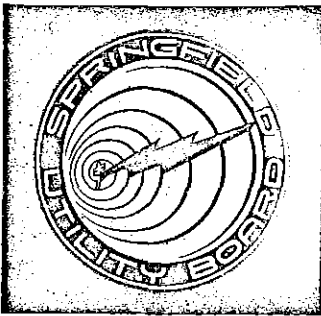
The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer

KHS/cf
Attachment

cc: Eugene District Office



CITY OF SPRINGFIELD
MUNICIPAL
POWER AND WATER

PHONE 746-8451

346 MAIN STREET

P.O. BOX 300

SPRINGFIELD, OREGON - 97477

March 18, 1968

File No. _____

OREGON STATE SANITARY AUTHORITY
Waste Discharge Permit Program

Received: MAR 19 1968

Appl. No.: 143

Oregon State Sanitary Authority
State Office Building
1400 S. W. Fifth Ave.
Portland, Oregon 97201

Attention: Kenneth H. Spies - Secretary & Chief Engineer

Re: Waste Discharge Permit Application No. 143

*6.9 11/67
13 - 1051*

Gentlemen:

With reference to your letter of March 6, 1968, and to the attached recommended waste discharge permit conditions, the Springfield Utility Board will continue to operate and maintain the City of Springfield's waste treatment facilities at maximum possible efficiency to meet, insofar as possible, the conditions set forth in the proposed permit.

As evidenced by the enclosed Special Sewage Treatment Problems Study prepared for us by Cornell, Howland, Hayes & Merryfield, the Springfield Utility Board is engaged in a continuing effort to improve the operation of the Springfield sewage treatment plant. We will keep your office advised of the progress and results of this effort.

Heavy infiltration into the older sanitary sewer mains and laterals during periods of heavy rainfall is one of the principal reasons that the treatment plant is unable at times to achieve the desired 85% removal of B.O.D. and suspended solids. We have discussed this problem with the City Manager and City Engineer, and we will continue to work with them in an effort to begin correcting this problem.

We also are proceeding with research to determine whether the recent sharp increase in discharge of industrial wastes to the City's sanitary sewer system may be contributing to the difficulty we are experiencing in achieving 85% B.O.D. and suspended solids removal.

We are in sympathy with the State Sanitary Authority's efforts to minimize pollution of our rivers and streams, and we pledge our fullest cooperation toward this objective.

Sincerely,

SPRINGFIELD UTILITY BOARD

Jack R. Criswell

Jack R. Criswell

Superintendent

JRC:1

cc: Claude D. Malone, City Manager Tom Johnson, City Engineer

Eugene District Office OSSA

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Eugene
Expiration Date: 6/30/70
Application No.: 95
Date Received: 11/28/67
County: Lane
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 178.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average quantity of 5-day 20° C. BOD in the effluent discharged shall not exceed 8,400 pounds per day (lbs./day).
 - b. The monthly average quantity of Suspended Solids in the effluent discharged shall not exceed 4,800 lbs./day.
3. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter (mg/l) after 60 minutes of contact time at the average design flow.
4. The permittee shall submit by July 1, 1968, a detailed program and time schedule for providing by July 1, 1970, approved waste treatment facilities adequate to insure that:
 - a. Primary sedimentation be expanded to be compatible with secondary plant design.
 - b. A by-pass be installed in addition to the existing secondary line that now serves this function.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual	Daily
BOD (raw & final composite)	2 times weekly { 5 times weekly
Suspended Solids (raw & final composite)	2 times weekly { (June 1-Nov. 1)
pH (raw & final composite)	3 times weekly

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

March 6, 1968

City of Eugene
Department of Public Works
City Hall
Eugene, Oregon

Attn: Donald Allen, Director of Public Works

Gentlemen:

Re: Waste Discharge Permit
Application No. 95

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

The waste load limitations imposed by this permit are based on the calculated design capacity of your present treatment facility.

Inasmuch as the over-all waste discharges to the Willamette River already exceed the assimilative capacity of the river, it is anticipated that presently assigned loads cannot be increased and in some cases may have to be decreased if adopted water quality standards are to be met and maintained.

Therefore, additional raw waste loads will have to be accommodated at the expense of increased treatment efficiency or through use of alternative disposal methods at least during the low stream flow months. You should keep this requirement in mind in accepting new, large industrial waste loads for treatment or disposal in municipal facilities.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S.W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer

KHS/cf
Attachment

CITY OF EUGENE

DEPARTMENT OF PUBLIC WORKS

EUGENE, OREGON 97401

File
No.

OREGON STATE SANITARY AUTHORITY
Waste Discharge Permit Program

Received: MAR 18 1968

Appl. No. 95

March 15, 1968

Mr. Kenneth H. Spies
Secretary & Chief Engineer
Oregon State Sanitary Authority
1400 S. W. 5th Avenue
Portland, Oregon 97201

Re: Waste Discharge Permit Application No. 95

Dear Ken:

This will acknowledge your letter of March 6, 1968 relative to our waste discharge permit, and will serve as our submission as required under Section 4 of said document.

Our program calls for preparation of plans and specifications by Cornell, Howland, Hayes & Merryfield for the following:

1. Influent structure for the Bethel-Danebo and the Willakenzie sewers.
2. Influent flumes to new clarifiers.
3. Primary clarifiers (2 each - 2 bay units), duplicating existing clarifiers.
4. Grit facilities for new clarifiers.
5. Primary sludge pumping station.
6. Sludge thickener, duplicating existing thickener.
7. Bypass ahead of primary clarifiers, separate from existing secondary line.
8. Yard piping.
9. Electrical.
10. Grading and paving.

This construction program has been estimated to cost by 1969, approximately \$825,000.

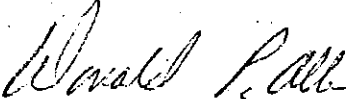
We plan to file with you on or before June 15, 1968, an application for State and Federal construction grants. We expect to have final design of proposed additions ready by early 1969 and be able to award construction contract if State and Federal grants are accepted and approved by September of 1969.

Mr. Kenneth H. Spies
Page 2
March 15, 1968

Our program calls for completion of the additions by July, 1970.

Engineering agreement funds for the aforesaid have been included in the proposed 1968-69 budget.

Very truly yours,


Donald P. Allen, Director
Department of Public Works

DPA:jd

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Harrisburg
 Expiration Date: 12/31/72
 Application No.: 105
 Date Received: 11/28/67
 County: Linn
 River Basin: Willamette
 Receiving Stream: Willamette River
 River Mile: 161.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.25 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (63 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (63 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Salem
 Expiration Date: 12/31/70
 Application No.: 237
 Date Received: 12/1/67
 County: Marion
 River Basin: Willamette
 Receiving Stream: Willamette
 River Mile: 78.2

*ex land usage permit
 delay action*

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average quantity of 5-day 20° C. BOD in the effluent discharged shall not exceed 11,000 pounds per day (lbs/day).
 - b. The monthly average quantity of Suspended Solids in the effluent discharged shall not exceed 7,300 lbs/day.
3. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter (mg/l) after 60 minutes of contact time at the average design flow.
4. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
5. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Flow	Daily
Lbs. chlorine used	Daily
Chlorine residual	Daily
BOD (raw & final composite)	2 times weekly) (5 times weekly
S.S. (raw & final composite)	2 times weekly) June 1 - Nov. 1)
pH (raw & final)	3 times weekly)

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data (June 1 - Nov. 1) weekly
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
7. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

March 14, 1968

Honorable Mayor & City Council
City of Salem
Salem, Oregon 97301

Re: Waste Discharge Permit
Application No. 237

Gentlemen:

On Friday, March 8, 1968, the Sanitary Authority staff reviewed the recommended waste discharge permit conditions with representatives of the city of Salem. These conditions in revised form are attached.

The waste load limitations imposed by these conditions are based on the calculated design capacity of your present treatment facility.

Inasmuch as the over-all waste discharges to the Willamette River already exceed the assimilative capacity of the river, it is anticipated that presently assigned load limitations cannot be increased and in some cases may have to be decreased if adopted water quality standards are to be met and maintained.

Therefore, additional raw waste loads will have to be accommodated at the expense of increased treatment efficiency or through use of alternative disposal methods at least during the low stream flow months. You should keep this requirement in mind in accepting new, large industrial waste loads for treatment or disposal in municipal facilities.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. Fifth Avenue, Portland, Oregon, beginning at 10:00 a.m. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary and Chief Engineer

MLS:ch

Attachment

cc: Portland District Office

city of



KHSU
SALEM, OREGON

TELEPHONE (503) 581-5123 • ZIP CODE 97301

March 27, 1968

Mr. Kenneth H. Spies
Secretary, Oregon State Sanitary Authority
P. O. Box 231
Portland, Oregon 97207

Dear Mr. Spies:

The Salem City Council at its meeting of March 25, 1968, has received and considered the Recommended Waste Discharge Permit Conditions and the letter of transmittal applying to the City of Salem's Waste Discharge Permit Application Number 237.

There is no doubt that the conditions imposed by this permit, and those for other municipalities along the Willamette River, will have an important impact on the growth plans and the financial planning for those cities. We are aware of, and in sympathy with, the objectives to be attained by this program. However, we feel that the financial implications are such that the limitations imposed must be carefully studied in order to be sure that all contributors to the problem share proportionately in its solution.

We request that action by the Oregon State Sanitary Authority to formally approve Salem's permit be delayed until the April meeting of the Authority. This action is requested in order that the matter may be considered at the Executive Committee meeting of the League of Oregon Cities on March 30, 1968, and any expression by the League for its member cities may be transmitted to you.

We will appreciate your cooperation in this matter.

Sincerely,

Vern W. Miller
Vern W. Miller, M.D.
Mayor

VWM:b

cc: City Manager D. W. Ayres
League of Oregon Cities Exec. Secy. Donald Jones
Utilities Director John Geren

Division of
Sanitation & Engineering
Oregon State Board of Health

RECEIVED

MAR 28 1968

OREGON'S



CAPITAL

DNF	TEMP	PERM
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RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Newberg
Expiration Date: 3/31/69
Application No.: 405
Date Received: 12/19/67
County: Yamhill
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 50.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.00 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l). (250 lbs/day)
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l. (250 lbs/day)
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the State or create a health hazard or nuisance conditions. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

Need pretreatment of JW

March 6, 1968

City of Newberg
City Hall
Newberg, Oregon 97132

Attn: Mr. Durrell Belanger, Mayor

Gentlemen:

Re: Waste Discharge Permit
Application No. 405

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 18, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

In regard to the sampling and testing procedure at the sewage treatment plant, the following should be accomplished:

1. Maintain at least one full-time trained sewage treatment plant operator all year and two full-time trained operators during the months June through September. This manpower is needed to run the required tests while properly maintaining the plant.
2. In addition to the required tests a daily mixed liquor suspended solids (MLSS) test of the aeration tank and Volatile Solids test of the primary effluent are both desirable to consistently maintain good operation. These tests are run at all other activated sludge plants in the state of the same size as Newberg's plant.
3. In order to evaluate industrial waste loadings many of the required sewage treatment plant tests should be run at least twice weekly on samples collected at the industrial waste sources.

With respect to industrial waste sewer ordinances, the city should enforce its ordinance so overloading the plant with industrial waste does not occur.

City of Newberg

- 2 -

March 6, 1968

Significant discharges of strong wastes to the Willamette River during low water periods have occurred because of a combination of the preceding items. At the time of expiration of this permit the city's progress in the areas mentioned will be evaluated.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary & Chief Engineer

KHS/cf
Attachment

cc: Portland District Office

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of West Linn (Willamette)
Expiration Date: 12/31/71
Application No.: 77
Date Received: 11/27/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 28.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of ~~5-day Biochemical Oxygen Demand (BOD)~~ and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.375 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (95 lbs./day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (95 lbs./day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of West Linn (Bolton Plant)
 Expiration Date: 12/31/70
 Application No.: 76
 Date Received: 11/27/67
 County: Clackamas
 River Basin: Willamette
 Receiving Stream: Willamette River
 River Mile: 24.1

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of ~~5-day~~ Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.3 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (315 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (315 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Society of Sisters of Holy Names (Marylhurst)
Expiration Date: 12/31/70
Application No.: 253
Date Received: 12/1/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 21.9

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.110 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l). (27.5 lbs/day)
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l. (27.5 lbs/day)
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Portland - Tryon Creek
Expiration Date: 12/31/71
Application No.: 316
Date Received: 12/8/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Willamette River
River Mile: 20.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 5.0 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (1,250 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (1,250 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

WILLIAM A. BOWES
COMMISSIONER
DEPARTMENT OF PUBLIC WORKS



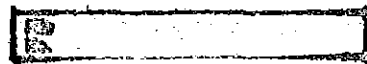
CITY OF PORTLAND
OREGON

97204

1220 S.W. 5TH AVENUE • PHONE (503) 228-6141

OK on Stand

WM. S. LIND
CHIEF OF OPERATIONS
NORMAN R. DRULARD, P. E.
CITY ENGINEER



OREGON STATE SANITARY AUTHORITY
Waste Discharge Permit Program

Received: MAR 15 1968

316

March 15, 1968

Oregon State Sanitary Authority
State Office Building
1400 S.W. 5th Avenue
Portland, Oregon 97201

Subject: Waste Discharge Permit Application No. 316

Attention: Mr. Kenneth H. Spies, Secretary & Chief Engineer

Dear Mr. Spies:

Reference is made to your letter of March 6, 1968, wherein you have reviewed our application for a waste discharge permit for the Tryon Creek Treatment Plant. Attached were the proposed conditions under which the Authority has stated that they will approve the waste discharge permit application.

These have been carefully reviewed and agreed to by the Supervisor of our Tryon Creek Treatment Plant. We are somewhat concerned with Paragraph No. 1, the portion which states, "(Equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids)." It should be recognized that this condition would be impractical during periods of high flows due to high precipitation and infiltration.

We concur with the conditions for approval of the waste discharge permit.

NRD:j

cc: Wm. A. Bowes, Commissioner

J. R. Burns, Supervisor
Tryon Creek Treatment Plant

Very truly yours,

N. R. Drulard
N. R. DRULARD
City Engineer

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Oak Lodge Sanitary District
 Expiration Date: 12/31/68 *30 Day*
 Application No.: 252
 Date Received: 12/1/67
 County: Clackamas
 River Basin: Willamette
 Receiving Stream: Willamette River
 River Mile: 20.1

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.5 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (375 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (375 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

Time Schedule

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

SUMMARY OF THE SIGNIFICANT COMMENDED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Cornelius	Domestic	12/31/70	0.25 MGD	30 mg/L (60 lbs/day)	30 mg/L (60 lbs/day)	
Tektronix (Domestic)	Domestic	3/31/70	0.259 MGD	20 mg/L (45 lbs/day)	20 mg/L (45 lbs/day)	
Uplands Sanitary Dist.	Domestic	6/30/69 <i>SM</i>	--	--	--	Proceed on program to complete annexation to Sunset Valley Sanitary District and abandon existing plant by 7/1/69.
Sunset Valley Sanitary District	Domestic	3/31/71	1.5 MGD	20 mg/L (250 lbs/day)	20 mg/L (250 lbs/day)	
Oregon Regional Primate Research Center	"Monkey" Wastes	3/31/71	0.06 MGD	20 mg/L (10 lbs/day)	20 mg/L (10 lbs/day)	
Aloha Sanitary Dist.	Domestic	3/31/73	1.5 MGD	20 mg/L (250 lbs/day)	20 mg/L (250 lbs/day)	
Hillsboro (Rock Creek)	Domestic	12/31/71	1.25 MGD	20 mg/L (210 lbs/day)	20 mg/L (210 lbs/day)	
Metzger Sanitary Dist.	Domestic	3/31/73	1.0 MGD	20 mg/L (170 lbs/day)	20 mg/L (170 lbs/day)	
Tigard (Tigard Plant)	Domestic	3/31/70	0.7 MGD	20 mg/L (120 lbs/day)	20 mg/L (120 lbs/day)	
King City	Domestic	3/31/70	0.2 MGD	20 mg/L (50 lbs/day)	20 mg/L (50 lbs/day)	

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Cornelius
Expiration Date: 12/31/70
Application No.: 130
Date Received: 11/29/67
County: Washington
River Basin: Tualatin
Receiving Stream: Tualatin River
River Mile: 52.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.250 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Tualatin River shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (60 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 milligrams per liter (60 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Tektronix, Inc. (Domestic)
Expiration Date: 3/31/70
Application No.: 153
Date Received: 11/30/67
County: Washington
River Basin: Tualatin
Receiving Stream: Beaverton Creek
River Mile: 7.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.259 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Beaverton Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (45 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (45 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Uplands Sanitary District
Expiration Date: June 30, 1969
Application No.: 28
Date Received: 11/16/67
County: Washington
River Basin: Willamette
Receiving Stream: Johnson Creek
River Mile: 1.2

1. The sewerage system (pipelines, conduits, pump stations, forcemains, and all other facilities used for collecting or conducting wastes to the ultimate point of treatment or disposal) shall at all times be operated and maintained in a manner that will minimize waste discharges.
2. The waste treatment facility (plant) shall at all times be maintained and operated at maximum efficiency, and in a manner that will minimize waste discharges.
3. The liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge. The disinfection must be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a chlorine residual of 0.5 mg/l after a 60-minute contact time at average design flows.
4. The permittee shall proceed immediately ^{to negotiate} on the following schedule to ultimately achieve annexation to the Sunset Valley Sanitary District and abandonment of the permittee's treatment facilities and pumping stations:
It is understood the state will be advised of date of annexation of Sunset Valley Sanitary District
 - a. Complete research and reorder of the Uplands Sanitary District boundaries by May 1, 1968.
 - b. By July 31, 1968, complete preliminary engineering design and cost estimates of the interceptor sewer to connect the present collection system to the treatment plant of the Sunset Valley Sanitary District.
 - c. Complete financing arrangements for the necessary construction by January 1, 1969.
 - d. Complete construction of the proposed interceptor and abandon the Uplands Sanitary District's treatment plant and pump stations by July 1, 1969.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data

collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameters</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The total number of housing units to be served shall not exceed 302.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
11. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

March 8, 1968

Upland Sanitary District
115 S. W. 89th Avenue
Portland, Oregon 97225

Attention: Mr. N. R. Murray, Chairman

Gentlemen:

Re: Waste Discharge Permit
Application No. 23

The Sanitary Authority staff has reviewed your application for a Waste Discharge Permit. Preliminary proposed permit conditions have been prepared and are attached. You are invited to submit any comments you may have regarding these proposed conditions in writing before March 20, 1968. After that date, final proposed conditions will be prepared and copies will be forwarded you, if significant changes are made, and to the members of the Sanitary Authority.

It should be emphasized that all of the enclosed permit conditions, except No. 4, apply to the existing sewage treatment facility for the period of time until the program outlined in condition No. 4 has been accomplished.

The Sanitary Authority will be requested to take action to issue a permit containing the final proposed conditions at the meeting on March 29, 1968, to be held in Room 36, State Office Building, 1400 S. W. 5th Avenue, Portland, Oregon, beginning at 10:00 A.M. You may appear at the meeting if you so desire.

Very truly yours,

Kenneth H. Spies
Secretary and Chief Engineer

HLS:an
Attachment

cc: Portland District Office

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Sunset Valley Sanitary District
Expiration Date: 3/31/71
Application No.: 58
Date Received: 11/22/67
County: Washington
River Basin: Tualatin
Receiving Stream: Cedar Mill Creek
River Mile: 3.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.5 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Cedar Mill Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (250 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (250 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

File

CARL E. GREEN & ASSOCIATES
Consulting Engineers and Planners

1730 S.W. SKYLINE BLVD., PORTLAND, OREGON 97221
292-9254

57

March 19, 1968

State Sanitary Authority
1400 S. W. 5th
Portland, Oregon

Re: Sunset Valley Sanitary District Permit

Gentlemen:

The Sunset Valley Sanitary District has been issued a permit for the discharge of 1.5 M.G.D. of effluent into Cedar Mill Creek during summer months. Sunset has had discussions with representatives of the Uplands Sanitary District several times during the last year pertaining to the possibility of the Uplands plant being abandoned and treatment being provided by Sunset. Sanitary Authority representatives have encouraged this proposal. Sunset must be certain that their permit will enable them to service areas within their present boundaries as well as Uplands if Uplands is to be annexed and their plant abandoned.

The Sunset Board has asked me to review the design data and operating results of their plant and present facts which will substantiate the District's request for a permit having greater capacity than has so far been approved. The data which follows is presented for this purpose.

1. General Data

When the Sunset Board approved of our recommendation that an activated sludge plant of the "rapid-bloc" type be designed and constructed, there was no such plant in service in the western United States though one was nearing completion of construction at Redlands, California. The writer visited that plant before making a recommendation to the Sunset Board. Because of lack of experience with the particular process then proposed, we designed the new facilities on an extremely conservative basis which was set forth in our submittal to you in November 1963, a copy of which is included herewith. To further protect Sunset, Chicago Pump Company was required to provide a performance guarantee; the guarantee has been met with a substantial margin of safety.

The plant has been in operation for several years and its efficiency has been clearly established both by routine tests by Sunset and by analysis by the Sanitary Authority staff. In fact, we believe the results are outstanding in the entire State of Oregon.

2. Sewage Characteristics & Load

Our design was based upon 0.2 lbs. of B.O.D. per capita per day and a sewage strength of 285 mg per liter. Actual analysis show that the strength is about 180 mg per liter or 63% of the assumed strength.

File No.
OREGON STATE SANITARY AUTHORITY Waste Discharge Permit Program
Received: MAR 20 1968
App. No. 58

CARL E. GREEN & ASSOCIATES

Consulting Engineers and Planners

1730 S.W. SKYLINE BLVD., PORTLAND, OREGON 97221
292-9254

57

March 19, 1968

Page Two

Using a conservative figure of 0.17 lbs. B.O.D. per capita per day and a design capacity of 18,000 persons, the total B.O.D. load should not exceed 3,060 lbs. per day. This amount will be reduced 35% in the primary sedimentation tanks, thus placing a daily load of about 1,990 lbs. on the aeration facilities.

3. Aeration Tank

This unit's capacity is 17,870 cu. ft. Chicago Pump states that loading can reach 150 lbs. of B.O.D. per 1,000 cu. ft. per day. On this basis, 2,680 lbs. of B.O.D. could be treated in the aeration tank. Using a more conservative figure of 130 lbs. of applied B.O.D. per 1,000 cu. ft. per day, as was used in the 1963 design, the applicable load becomes 2,323 lbs.

At a load of 0.17 lbs. of B.O.D. per person in the raw sewage, the total pounds of B.O.D. would equal 3,060 and the applied load to aeration tank 1,990 lbs. or a loading basis of only 90 lbs. per 1,000 cu. ft.

4. Air Capacity

The plant has an installed blower capacity of 3 units @ 815 c.f.m. each or a total of 3,520,800 c.f. per day. Assuming one compressor as a standby only, the daily capacity is 2,358,900 c.f. per day. Since 850 c.f. of air are required per lb. of B.O.D. then on an air basis the plant capacity is 2,770 lbs. of B.O.D. per day.

5. Final Sedimentation Tank

For some time the overflow rate of final sedimentation tanks in activated sludge plants has been accepted at 700 gal. per day per sq. ft. This empirical figure has been based upon the use of circular tanks and rectangular tanks with flow through a small cross sectional area with respect to length. The Sunset final tank is different in that it is a cross flow tank with a uniform flow at extremely low velocity because of the large cross sectional area through which the flow passes to reach the effluent launders. Experience at Sunset, especially at flows of two and three M.G.D., points toward the reasonableness of using a higher overflow rate than 700.

Surface area of the final tank is 2,248 square feet. Plant operation has demonstrated the unit to be efficient at an overflow rate of 900 gallons per sq. ft. per day. On this basis, the final sedimentation tank capacity becomes 2.02 M.G.D.; at a rate of 850, the capacity becomes 1.91 M.G.D.

6. Chlorination Contact Basin

The existing facility provides 31,300 gallons or 4,180 cu. ft. capacity. The Authority has increased its requirements to one hour contact time at

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average flow. The existing unit meets that requirement at its present summer month flow of 0.75 M.G.D. The District can at moderate expense add another chlorine contact basin to comply with the Authority requirements, constructing an additional unit which will be adequate for any approved overall treatment plant capacity.

8. Digester Capacity

Present digester capacity totals 32,000 cu. ft. Plans have been prepared by us for the construction of another digester of 26,000 cu. ft. capacity on the north side of the existing sludge control portion of the Sunset plant. The construction of the contemplated unit should provide total sludge treatment capacity adequate for about 18,000 population.

9. Operating Results

In order to substantiate the position which we take that the plant can handle flows in excess of 1.5 M.G.D., we furnish on the following page 14 typical results obtained with a flow varying from 1.7 - 2.3 M.G.D. and with final sedimentation tank overflow rates varying from 751 to 918 gallons per sq. ft. per day. The averages of all of the data show that a flow of 1.9 M.G.D. would result in a B.O.D. removal of 92% and an average of 9 ml per liter in the plant effluent.

10. Trickling Filter

Sunset has available for use, a trickling filter which in recent years has been on a standby basis. Years of operation demonstrated the efficiency of the unit. The expanded plant changed to activated sludge because of the nearness of homes surrounding the plant property.

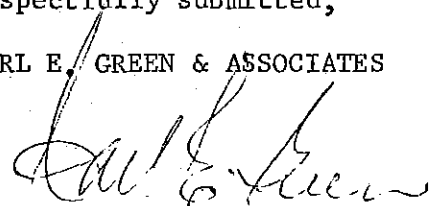
11. Conclusion

We are of the opinion that the Sunset plant will be able to meet the Authority's criteria of efficient operation and production of a high quality effluent superior to that of the receiving stream above the point of discharge at a flow rate during summer months of 1.9 M.G.D. This is predicated upon the planned construction of an additional digester and increased chlorine contact basin capacity. On behalf of the Board of Commissioners of Sunset Valley Sanitary District, we request revision of the state's permit so as to increase the permitted summer flow from 1.5 to 1.9 M.G.D.

Respectfully submitted,

CARL E. GREEN & ASSOCIATES

By



Carl E. Green

CEG:er

cc Sunset Valley Sanitary District

March 22, 1968

Mr. Carl E. Green
Carl E. Green & Associates
1730 S. W. Skyline Blvd.
Portland, Oregon 97221

Dear Mr. Green:

Re: Sunset Valley Sanitary District
Waste Discharge Permit Application No. 53

We have received your letter dated March 19, 1968, requesting that the flow limitation in our recommended permit conditions be raised from 1.5 to 1.9 MGD.

The Sanitary Authority at its meeting on September 13, 1966, adopted a policy regarding the Tualatin Basin which reads, in part, as follows: "(1) That until a master plan of sewerage is developed and adopted, no new sewerage or waste facilities, and no expansion of existing facilities, other than those previously committed, be approved for construction in the Tualatin Basin unless provisions are included to prevent discharge of the effluent to the Tualatin River or its tributaries during the low flow season, normally June 1 to November 1"

Your request, in essence, asks for an expansion of existing facilities since it would allow more people to be served by the present system. The staff must, therefore, recommend that the request be denied.

As you know, the staff would like to see the Upland Sanitary District treatment plant abolished and these wastes conveyed to a larger system for treatment. Since you indicate that the existing Sunset Valley facilities have capacity to treat additional wastes and still meet the established effluent standard, the staff will recommend that the flow limitation be increased to 1.65 MGD to accommodate Upland Sanitary District as soon as it is annexed to the Sunset Valley Sanitary District and facilities are constructed to convey the Upland District wastes to the Sunset Valley plant so that the Upland plant can be eliminated. Such action would constitute the transfer of an allocated waste load to an existing plant without resulting in an expansion of loads discharged within the Tualatin Basin.

This matter will be presented to the Authority at its meeting on March 29, 1968, beginning at 10:00 A.M. in Room 36 of the State Office Building in Portland. You are invited to appear at this meeting if you so desire.

Very truly yours,

Harold L. Sawyer, Supervisor
Waste Discharge Permit Program

HE:Stan

cc: Sunset Valley Sanitary District

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Oregon Regional Primate Research Center
Expiration Date: 3/31/71
Application No.: 46
Date Received: 11/20/67
County: Washington
River Basin: Tualatin
Receiving Stream: Bronson Creek
River Mile: 1.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facility during any dry weather month shall not exceed the design flow of 0.060 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Bronson Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (10 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (10 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Aloha Sanitary District
Expiration Date: 3/31/73
Application No.: 16
Date Received: 11/14/67
County: Washington
River Basin: Tualatin
Receiving Stream: Beaverton Creek
River Mile: 3.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.5 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Beaverton Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (250 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (250 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Hillsboro
 Expiration Date: 12/31/71
 Application No.: 176
 Date Received: 11/30/67
 County: Washington
 River Basin: Tualatin
 Receiving Stream: Rock Creek
 River Mile: 0.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.25 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Rock Creek shall be governed by the following:
 - a. The monthly average 5-day 20° C. Biochemical Oxygen Demand (BOD) effluent concentration shall not exceed 20 milligrams per liter (mg/l) (210 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 mg/l (210 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

CITY OF HILLSBORO

LLOYD T. ANDERSON
Mayor
J. W. BARNEY
City Manager
E. M. BOWMAN
City Recorder
E. M. BOWMAN
City Treasurer
C. F. BRADLEY
City Attorney

COUNCILMEN
DR. R. V. LANCE, Ward 1
ARTHUR L. REILING, Ward 1
EMORY R. DYE, Ward 2
L. H. ACKERMAN, Ward 2
HOWARD L. FRASER, Ward 3
ARNIE DICKASON, Ward 3

HILLSBORO, OREGON 97123

14 March, 1968

File No.

OREGON STATE SANITARY AUTHORITY
Waste Discharge Permit Program

Received: MAR 15 1968

Appl. No. 176

Mr. Kenneth H. Spies
Secretary & Chief Engineer
Oregon State Sanitary Authority
1400 S.W. 5th Avenue
Portland, Oregon 97201

Subject: Waste Discharge Permit Application No. 176, Rock Creek Plant No. 2

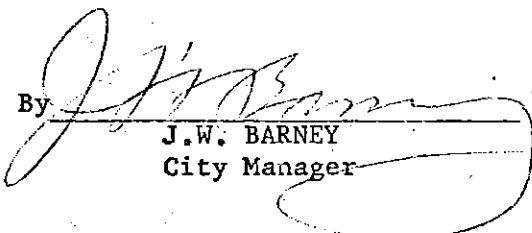
Dear Mr. Spies:

This will acknowledge receipt of your letter under date of March 8, 1968 together with recommended waste discharge permit conditions.

In checking the conditions over with our plant operator, he advises me that there is nothing in the conditions that we cannot meet in the Rock Creek Plant. Therefore, as far as I know, it will not be necessary for us to appear at the meeting on March 29, 1968.

Very truly yours,

CITY OF HILLSBORO

By 
J.W. BARNEY
City Manager

JWB:LV

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Metzger Sanitary District
Expiration Date: 3/31/71
Application No.: 434
Date Received: 12/22/67
County: Washington
River Basin: Tualatin
Receiving Stream: Fanno Creek
River Mile: 4.9

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.0 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Fanno Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (170 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (170 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Tigard (Tigard Plant)
Expiration Date: 3/31/70
Application No.: 332
Date Received: 12/11/67
County: Washington
River Basin: Tualatin
Receiving Stream: Fanno Creek
River Mile: 3.7

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.70 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Fanno Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (120 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (120 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.



CITY OF TIGARD

12420 S. W. Main Street
TIGARD, OREGON 97223
March 13, 1968

File No.	
OREGON STATE SANITARY AUTHORITY Wastewater Treatment Program	
Receive	12 1968
Appl. No.	332

Mr. Kenneth H. Spies
Oregon State Sanitary Authority
1400 S.W. 5th Ave.
Portland, Oregon 97201

Dear Ken:

In reviewing the proposed conditions for the Waste Discharge Permit, it appears that these are the same as those presently required.

However, recommend that paragraph 4 indicate the equivalent residual of 0.75 milligrams per liter for a 30 minute contact time.

Sincerely,

Keith C. Thompson
Director of Public Works

KCT/kb

Water Pollution Control
Oregon State Board of Health

RECEIVED

MAR 14 1968

DNF TEMP PERM

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of King City
Expiration Date: 3/31/70
Application No.: 6
Date Received: 11/8/67
County: Washington
River Basin: Tualatin
Receiving Stream: Tualatin River
River Mile: 11.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.2 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Tualatin River shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (mg/l) (50 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (50 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

SUMMARY OF THE SIGNIFICANT COMMENTED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Oakridge	Domestic	6/30/69	--	--	--	Provide secondary treatment by 6/1/69
Creswell	Domestic	6/30/69	0.175 MGD	30 mg/L (45 lbs/day)	30 mg/L (45 lbs/day)	Submit program by 5/15/68 for providing adequate chlorine facilities by May 1969.
Vira Corporation (Country Squire Motel)	Domestic	9/30/69	0.050 MGD	20 mg/L (8 lbs/day)	20 mg/L (8 lbs/day)	
Corvallis Mobile Home Park	Domestic	3/31/71	0.013 MGD	30 mg/L 3 lbs/day	30 mg/L 3 lbs/day	
Scio	Domestic	6/30/69	0.060 MGD	30 mg/L (15 lbs/day)	30 mg/L (15 lbs/day)	Provide adequate chlorination facilities by May 1, 1969.
Mill City	Domestic	7/31/68	--	--	--	Construct facilities to eliminate discharge by July 1, 1968.
Stayton	Domestic	9/30/71	0.43 MGD	25 mg/L (90 lbs/day)	25 mg/L (90 lbs/day)	
Monmouth	Domestic	12/31/72	0.7 MGD	30 mg/L (175 lbs/day)	30 mg/L (175 lbs/day)	
Independence	Domestic	12/31/71	0.385 MGD	30 mg/L (100 lbs/day)	30 mg/L (100 lbs/day)	
Salem Development Co. Illahe Hills	Domestic	9/30/70	--	--	--	Construct fences and post No Trespassing signs before June 1, 1968.
Dallas	Domestic	6/30/69	1.0 MGD	350 lbs/day	350 lbs/day	Construct additional treatment facilities before June 1, 1969.
Willamina	Domestic	3/31/71	0.20 MGD	30 mg/L (50 lbs/day)	30 mg/L (50 lbs/day)	

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Oakridge
Expiration Date: 6/30/69
Application No.: 32
Date Received: 11/17/67
County: Lane
River Basin: Willamette
Receiving Stream: Middle Fork of Willamette
River Mile: 40.8

1. The permittee shall proceed immediately to construct and place into operation before June 1, 1969, approved waste treatment facilities adequate to insure that:
 - a. The average 5-day 20° C. Biochemical Oxygen Demand (BOD) concentration shall not exceed 30 milligrams per liter (mg/l) (125 pounds of BOD per day).
 - b. The average effluent Suspended Solids concentration shall not exceed 30 mg/l (125 pounds of Suspended Solids per day).
 - c. The effluent receives a minimum of 60 minutes of chlorine contact time at the average design flow before being discharged from the controlled confinement of the treatment facility.
2. At all times, all existing waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.2 million gallons per day (MGD).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Creswell
 Expiration Date: 6/30/69
 Application No.: 83
 Date Received: 12/18/67
 County: Lane
 River Basin: Willamette
 Receiving Stream: Camas Slough
 River Mile: 5.0

1. The permittee shall submit by May 15, 1968, a detailed program and time schedule for providing by May 1969 approved waste treatment facilities adequate to insure that:

The effluent receives a minimum of 60 minutes of chlorine contact time at the average design flow before being discharged from the controlled confinement of the treatment facility.

2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.175 million gallons per day (MGD).
4. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Camas Slough shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (mg/l) (45 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (45 pounds of Suspended Solids per day).
5. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times per week

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information

7. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the City Hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Vira Corporation
Country Squire Motel, Inc.

Expiration Date: 9/30/69

Application No.: 210
Date Received: 12/1/67
County: Lane
River Basin: Willamette
Receiving Stream: Creek to Muddy Creek
River Mile: 1.0 - 48.0

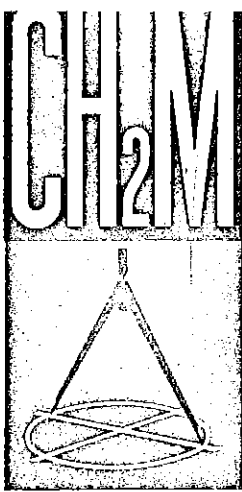
1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges. All effluent from the package plant shall be discharged to the ponds and not directly to the creek.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.050 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Little Muddy Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 20 milligrams per liter (mg/l) (8.0 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 mg/l (8.0 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance conditions. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.

6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Flow	Daily
Chlorine residual	Daily
Pond Overflow (yes, no)	Weekly

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
- Routine monitoring data
 - Sludge disposal information
 - Bypassing information
 - Maintenance shutdown information
 - Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 419.245 and ORS 419.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.

13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.



OK as stated

CORNELL, HOWLAND, HAYES & MERRYFIELD
ENGINEERS AND PLANNERS

1600 WESTERN AVENUE • CORVALLIS, OREGON 97330
TELEPHONE: AREA CODE 503/752-4271
OTHER OFFICES IN: SEATTLE • BOISE • PORTLAND

18 March 1968

Record No. C4943.0

Oregon State Sanitary Authority
State Office Building
1400 SW 5th Avenue
Portland, Oregon

Attn: Mr. Kenneth H. Spies
Secretary & Chief Engineer

File No.
OREGON STATE SANITARY AUTHORITY Waste Discharge Permit Program
Received: MAR 19 1968
Appl. No. 210

Gentlemen:

Vira Corporation, Country Squire Motel, Inc.
Waste Discharge Permit Application No. 210

Mr. Robert O. Davis, president of Vira Corporation, has requested that we reply to your letter to him dated 7 March 1968 relative to the Waste Discharge Permit for the sewage treatment facilities serving the Country Squire Motel.

We called Mr. Milliken on 15 March 1968 to determine what preliminary proposed permit conditions had been prepared by the Oregon State Sanitary Authority for consideration. We also called Mr. Lynd on 18 March 1968 to discuss test data which the OSSA had on the performance of the treatment facility. The two improvements noted in your letter of 7 March 1968 were also discussed with Mr. Lynd.

The comments we would like to make in Vira Corporation's behalf are as follows:

1. The permit conditions indicate that during the period between the 1st of June to the 1st of September, an average monthly BOD and suspended solids of 20 mg per liter will be allowed in the effluent. At these allowable concentrations, and a daily flow of 0.05 million gallons per day, the allowable BOD and suspended solids should be changed to 8.34 pounds per day.

2. We doubt if the average monthly BOD or suspended solids on a pound per day basis ever will become a critical condition to meet. In the event it would, however, we assume test results of the effluent from the storage lagoon would be used in determining whether conditions set forth in the permit were being exceeded. We call this to your attention as all testing which the OSSA has done in the past has been on effluent out of the Rapid Bloc system. Under the condition that all effluent from the Rapid Bloc system be discharged to the storage pond, the Rapid Bloc becomes a pretreatment facility and the storage pond the final facility in the overall treatment system.

Mr. Kenneth H. Spies
18 March 1968
Page -2-

The suggestion in your letter to provide a grease trap immediately after the kitchen on the sewer line was considered in the past, but intercepting only kitchen waste was found impossible without major plumbing changes. Keeping grease accumulations skimmed off the Rapid Bloc system appeared to be the best solution even though it was recognized that an occasional upset of the system could occur. It appears to us now that since all effluent must be discharged to the storage pond, that an occasional upset of the Rapid Bloc system will be smoothed out in the storage pond. Therefore, we feel the present method of removing grease from the system is the most practical solution to the grease problem and conditions of the permit can be met without installing a grease trap.

In regards to meeting conditions of the permit for disinfection, if effective chlorination cannot be obtained by increasing present chlorine feed rates, additional chlorine contact basins will have to be provided as only 30 minutes detention at average flow is now available.

If you have any questions relative to our comments, please write or call.

Very truly yours,

CORNELL, HOWLAND, HAYES & MERRYFIELD



Elmer L. Seegmueller

ELS/le

cc: Robert O. Davis

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Corvallis Mobile Home Park
Expiration Date: 3/31/71
Application No.: 113
Date Received: 11/29/67
County: Benton
River Basin: Willamette
Receiving Stream: Creek to Oak Creek
River Mile: 0.5 - 1.6

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.013 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Oak Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. Biochemical Oxygen Demand (BOD) concentration shall not exceed 30 milligrams per liter (3.0 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 milligrams per liter (3.0 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Chlorine Residual	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the Mobile Park Office.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Scio
Expiration Date: 6/30/69
Application No.: 271
Date Received: 12/14/67
County: Linn
River Basin: Willamette
Receiving Stream: Peters Ditch to Thomas Cr.
River Mile: 0.5 - 8.0

1. The permittee shall proceed to construct and place into operation before May 1, 1969 approved waste treatment facilities adequate to insure that the effluent receives a minimum of 60 minutes of chlorine contact time at the average design flow before being discharged from the controlled confinement of the treatment facility.
2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.060 million gallons per day (MGD).
4. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Peters Ditch shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (mg/l) (15 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (15 pounds of Suspended Solids per day).
5. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
6. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.

7. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times per week

8. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
- Routine monitoring data
 - Bypassing information
 - Maintenance shutdown information
 - Breakdown information
9. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
10. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
11. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
12. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
13. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.

14. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
15. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
16. This permit, or a photocopy thereof, shall be displayed at the city hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Mill City

Recommended Expiration Date: July 31, 1968

Application No.: 366

County: Marion

River Basin: Willamette

Receiving Stream: North Santiam River

River Mile: 47.0

1. The permittee shall proceed immediately to construct and place into operation before July 1, 1968, either approved waste treatment facilities or approved facilities adequate to insure that no waste will be discharged to the North Santiam River.
2. No additional source of waste may be connected to the sewerage system and loads presently connected shall not be increased until needed modifications are constructed.
3. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
4. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Stayton
Expiration Date: 9/30/71
Application No.: 18
Date Received: 11/14/67
County: Marion
River Basin: Willamette
Receiving Stream: North Santiam River
River Mile: 15.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.430 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the North Santiam River shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 25 milligrams per liter (90 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 25 milligrams per liter (90 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily
pH (influent and effluent)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Monmouth
Expiration Date: 12/31/72
Application No.: 106
Date Received: 11/28/67
County: Polk
River Basin: Willamette
Receiving Stream: Ash Creek
River Mile: 2.6

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.7 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Ash Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. Biochemical Oxygen Demand concentration shall not exceed 30 milligrams per liter (175 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 milligrams per liter (175 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. By-passing information
 - c. Maintenance shutdown information
 - d. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Independence
Expiration Date: 12/31/71
Application No.: 111
Date Received: 11/29/67
County: Polk
River Basin: Willamette
Receiving Stream: Ash Creek to Willamette River
River Mile: 95.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.385 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Willamette River shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (100 lbs/day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (100 lbs/day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual	Daily

6. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information

7. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
8. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
9. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
10. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
11. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
12. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
13. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
14. This permit, or a photocopy thereof, shall be displayed at the City Hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Salem Development, Inc. (Illahe Hills)
Expiration Date: 9/30/70
Application No.: 60
Date Received: 11/22/67
County: Marion
River Basin: Willamette
Receiving Stream: Creek to Willamette
River Mile: 2.0 - 86.0

1. The permittee shall proceed immediately to construct and place into operation before June 1, 1968, approved childproof fences around the entire sewage lagoon. Signs shall be posted on all sides of the lagoon stating the following or its equivalent: No Trespassing, Raw Domestic Sewage.
2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
3. If and when it appears that an overflow from the lagoon will occur, the permittee shall do the following:
 - a. Immediately notify the Sanitary Authority.
 - b. Provide approved facilities to adequately disinfect the overflow.
 - c. Conduct an effluent monitoring program and submit reports in accordance with the requirements of the Sanitary Authority.
4. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Maintenance shutdown information
 - c. Breakdown information
5. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
6. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
7. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.

8. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
9. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
10. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
11. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
12. This permit, or a photocopy thereof, shall be displayed at the Clubhouse.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Dallas
Expiration Date: 6/30/69
Application No.: 9
Date Received: 11/9/67
County: Polk
River Basin: Willamette
Receiving Stream: Rickreall Creek
River Mile: 12.0

1. The permittee shall proceed to construct and place into operation before June 1, 1969, approved waste treatment facilities adequate to insure that:
 - a. The average quantity of 5-day 20° C. Biochemical Oxygen Demand (BOD) in the effluent discharged shall not exceed 350 pounds per day (lbs./day) with the average effluent BOD concentration not to exceed 20 milligrams per liter (mg/l).
 - b. The average quantity of Suspended Solids in the effluent discharged shall not exceed 350 pounds per day with the average effluent Suspended Solids concentration not to exceed 20 mg/l.
 - c. The effluent receives a minimum of 60 minutes of chlorine contact time at the average design flow before being discharged from the controlled confinement of the treatment facility.
2. At all times, all existing waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day BOD and Suspended Solids) and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 1.0 million gallons per day (MGD).
4. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Rickreall Creek shall be governed by the following:
 - a. The monthly average quantity of 5-day 20° C. BOD in the effluent discharged shall not exceed 350 lbs./day.
 - b. The monthly average quantity of Suspended Solids in the effluent discharged shall not exceed 350 lbs./day.
5. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.

6. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
7. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
Biochemical Oxygen Demand (BOD) (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent)	3 times per week

8. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
9. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
10. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
11. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
12. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.

13. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
14. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
15. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
16. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Willamina
Expiration Date: 3/31/71
Application No.: 479
Date Received: 1/2/68
County: Yamhill
River Basin: Willamette
Receiving Stream: Willamina Creek
River Mile: 0.2

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.200 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Willamina Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (50 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 milligrams per liter (50 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Chlorine Residual	Daily
Pounds Chlorine Used	Daily
pH, final	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. By-passing information
 - c. Maintenance shutdown information
 - d. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the city hall.

SUMMARY OF THE SIGNIFICANT RECOMMENDED PERMIT CONDITIONS

Name	Type of Waste	Recom. Expir. Date	Summer Limitations			Special Requirements
			Flow	BOD	Susp. Solids	
Housing Authority of Yamhill County	Domestic	9/30/71	0.065 MGD	20 mg/L (11 lbs/day)	20 mg/L (11 lbs/day)	Install flow meter by July 1, 1968.
Lafayette	Domestic	3/31/72	0.10 MGD	30 mg/L (25 lbs/day)	30 mg/L (25 lbs/day)	
Dayton	Domestic	9/30/71	0.10 MGD	30 mg/L (25 lbs/day)	30 mg/L (25 lbs/day)	
Yamhill	Domestic	12/31/71	0.10 MGD	25 mg/L (21 lbs/day)	25 mg/L (21 lbs/day)	
Mt. Angel	Domestic	6/30/71	0.360	30 mg/L (90 lbs/day)	30 mg/L (90 lbs/day)	
Gervais	Domestic	6/30/69	--	--	--	Provide disinfection if overflow occurs.
Woodburn	Domestic	6/30/69	0.96 MGD	30 mg/L (240 lbs/day)	30 mg/L (240 lbs/day)	
Molalla	Domestic	6/30/71	0.4 MGD	25 mg/L (84 lbs/day)	25 mg/L (84 lbs/day)	
Thunderbird Mobile Park	Domestic	12/31/70	0.015 MGD	20 mg/L (2.5 lbs/day)	20 mg/L (2.5 lbs/day)	
Gladstone	Domestic	3/31/73	--	--	--	Wastes are pumped to Oregon City for treatment.
Happy Valley Mobile Home Park	Domestic	12/31/68	0.009 MGD	20 mg/L (2 lbs/day)	20 mg/L (2 lbs/day)	No additional waste may be connected to system.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Housing Authority of Yamhill County (Eola Village)
Expiration Date: 9/30/71
Application No.: 493
Date Received: 1/5/68
County: Yamhill
River Basin: Willamette
Receiving Stream: Ditch to South Fork Yamhill River
River Mile: 2.0 - 15.0

1. The permittee shall proceed immediately to construct and place into operation before July 1, 1968, an approved flow meter that is capable of totalizing the daily sewage flow.
2. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
3. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.065 million gallons per day (MGD).
4. During the period from June 1 to November 1, the quality of the sewage effluent shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. Biochemical Oxygen Demand (BOD) concentration shall not exceed 20 milligrams per liter (11 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 milligrams per liter (11 pounds of Suspended Solids per day).
5. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
6. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
7. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Chlorine Residual	Daily
Pounds Chlorine Used	Daily
Flow Totalization	Daily

8. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
9. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
10. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
11. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
12. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
13. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
14. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

15. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
16. This permit, or a photocopy thereof, shall be displayed at the Village office.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Lafayette
Expiration Date: 3/31/72
Application No.: 127
Date Received: 11/29/67
County: Yamhill
River Basin: Willamette
Receiving Stream: Yamhill River
River Mile: 8.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.100 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Yamhill River shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (mg/l) (25 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (25 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times weekly

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at city hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Dayton
Expiration Date: 9/30/71
Application No.: 65
Date Received: 11/24/67
County: Yamhill
River Basin: Willamette
Receiving Stream: Yamhill River
River Mile: 5.3

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.100 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the Yamhill River shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C BOD concentration shall not exceed 30 milligrams per liter (25 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 milligrams per liter (25 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
pH (effluent before chlorination)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. By-passing information
 - c. Maintenance shutdown information
 - d. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the city hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Yamhill
Expiration Date: 12/31/71
Application No.: 81
Date Received: 11/12/67
County: Yamhill
River Basin: Willamette
Receiving Stream: Yamhill Creek
River Mile: 0.9

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.10 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Yamhill Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 25 milligrams per liter (21 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 25 milligrams per liter (21 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 milligrams per liter after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Mt. Angel
Expiration Date: 6/30/71
Application No.: 368
Date Received: 12/15/67
County: Marion
River Basin: Willamette
Receiving Stream: Creek to Pudding River
River Mile: 34.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.360 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of the creek to Pudding River shall be governed by the following:
 - a. The monthly effluent BOD concentration shall not exceed 30 milligrams per liter (mg/l) (90 lbs./day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (90 lbs./day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>PARAMETER</u>	<u>MINIMUM FREQUENCY</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. By-passing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown, its cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.

14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Gervais
Expiration Date: 6/30/69
Application No.: 47
Date Received: 11/20/67
County: Marion
River Basin: Willamette
Receiving Stream: Ditch to Pudding River
River Mile: 3.4 - 31.2

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. If and when it appears that an overflow from the lagoon will occur, the permittee shall do the following:
 - a. Immediately notify the Sanitary Authority.
 - b. Provide approved facilities to adequately disinfect the overflow.
 - c. Conduct an effluent monitoring program and submit reports in accordance with the requirements of the Sanitary Authority.
3. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information
4. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
5. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
6. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
7. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.

8. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
9. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
10. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
11. This permit, or a photocopy thereof, shall be displayed at the City Hall.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Woodburn

Expiration Date: 9/30/69

Application No.: 220

Date Received: 12/1/67

County: Marion

River Basin: Willamette

Receiving Stream: Mill Creek

River Mile: 8.5

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids) and in a manner which will minimize waste discharges. This includes all the old and new units of the plant.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.960 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Mill Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. BOD concentration shall not exceed 30 milligrams per liter (mg/l) (240 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 30 mg/l (240 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance conditions. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.

6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Pounds Chlorine Used	Daily
Chlorine Residual (effluent)	Daily
BOD (influent and effluent composite)	2 times per week
Suspended or Settleable Solids (influent and effluent composite)	2 times per week
pH (influent and effluent composite)	3 times per week

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.

13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Molalla
Expiration Date: 6/30/71
Application No.: 243
Date Received: 12/1/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Bear Creek to Pudding River
River Mile: 8.5 - 10.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency (~~equal to at least 85% reduction of 5-day Biochemical Oxygen Demand (BOD) and Suspended Solids~~) and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.40 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Bear Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. Biochemical Oxygen Demand (BOD) concentration shall not exceed 25 milligrams per liter (mg/l) (84 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 25 mg/l (84 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameters</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Settleable Solids (influent and effluent)	2 times per week
pH (influent and effluent)	3 times per week
Chlorine Residual (effluent)	Daily
Pounds Chlorine Used	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the treatment facility where it can be readily referred to by operating personnel.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Thunderbird Mobile Park

Expiration Date: 12/31/70

Application No.: 288

Date Received: 12/5/67

County: Clackamas

River Basin: Willamette

Receiving Stream: Creek to Willamette

River Mile: 2.0 - 39.0

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.015 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged shall be governed by the following:
 - a. The monthly average effluent BOD concentration shall not exceed 20 milligrams per liter (mg/l). (2.5 lbs/day)
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 mg/l. (2.5 lbs/day)
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Flow	daily
Cl ₂ residual	daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. No additional source of waste may be connected to the treatment facility and loads presently connected shall not be increased until needed modifications are approved and constructed.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the Mobile Park office.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: City of Gladstone
Expiration Date: 3/31/73
Application No.: 4
Date Received: 11/8/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Clackamas River
River Mile: 0.1

1. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
2. The permittee shall effectively monitor the operation and efficiency of the pumping station and the quantity of the effluent discharged. A permanent record of all such data shall be maintained at the pumping station. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Flow	Daily

3. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Bypassing information
 - c. Maintenance shutdown information
 - d. Breakdown information
4. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
5. This permit allows the construction of sewer extensions and connections thereto provided that plans and specifications are submitted to and approved by the Oregon State Board of Health and the Sanitary Authority as required by ORS 449.245 and ORS 449.395.
6. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
7. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all

reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.

8. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
9. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
10. This permit, or a photocopy thereof, shall be displayed at the pumping station.

RECOMMENDED WASTE DISCHARGE PERMIT CONDITIONS

Applicant: Happy Valley Mobile Park (Burright Subdivision)
Expiration Date: 12/31/68
Application No.: 395
Date Received: 12/18/67
County: Clackamas
River Basin: Willamette
Receiving Stream: Mitchell Creek to Johnson Creek
River Mile: 1.3 - 10.8

1. At all times, all waste treatment facilities and equipment shall be operated and maintained at maximum efficiency and in a manner which will minimize waste discharges.
2. The average daily flow of sewage through the treatment facilities during any dry weather month shall not exceed the design flow of 0.009 million gallons per day (MGD).
3. During the period from June 1 to November 1, the quality of the sewage effluent discharged to the waters of Mitchell Creek shall be governed by the following:
 - a. The monthly average effluent 5-day 20° C. Biochemical Oxygen Demand (BOD) concentration shall not exceed 20 milligrams per liter (mg/l) (2 pounds of BOD per day).
 - b. The monthly average effluent Suspended Solids concentration shall not exceed 20 mg/l (2 pounds of Suspended Solids per day).
4. At all times, the liquid effluent from the treatment facility shall receive adequate disinfection prior to discharge from the controlled confinement of the treatment facility. The effectiveness of disinfection shall be equivalent to that obtained by adequately mixing sufficient chlorine with the effluent to provide a minimum residual of 0.5 mg/l after 60 minutes of contact time at the average design flow.
5. All screenings, grit, and sludge shall be disposed of in a manner approved by the Sanitary Authority such that it does not reach any of the waters of the state or create a health hazard or nuisance condition. A permanent record shall be maintained which indicates the quantity, method, and location of disposal of all sludge.
6. The permittee shall effectively monitor the operation and efficiency of the treatment plant and the quantity and quality of the effluent discharged. A permanent record of all such data shall be maintained at the plant. Data collected and recorded shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Total Flow	Daily
Chlorine Residual (effluent)	Daily
Sludge Volume	Daily

7. Reports shall be submitted to the Sanitary Authority at the end of each calendar month on prescribed forms and shall contain the following:
 - a. Routine monitoring data
 - b. Sludge disposal information
 - c. Bypassing information
 - d. Maintenance shutdown information
 - e. Breakdown information
8. The sewerage system (pipelines, conduits, pumping stations, forcemains, and all other facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal) shall be operated and maintained in a manner which will minimize waste discharges.
9. No additional source of waste may be connected to the treatment facility and loads presently connected shall not be increased until needed modifications are approved and constructed.
10. In the event the permittee is temporarily unable to comply with any of the conditions of this permit, due to breakdown of equipment or other cause, the permittee shall immediately notify the Sanitary Authority of the breakdown or cause, and the steps taken to correct the problem and prevent its recurrence. A permanent record shall be maintained of all such occurrences.
11. Whenever a change in the waste to be discharged in excess of the conditions of this permit is anticipated, a new application shall be submitted together with the necessary reports, plans, and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
12. Authorized representatives of the Sanitary Authority shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and carrying out other necessary functions related to this permit.
13. This permit is subject to termination if the Sanitary Authority finds:
 - a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application submitted.
 - b. That there has been a violation of any of the conditions contained herein.
14. In the event that a change in the conditions of the receiving waters results in a dangerous degree of pollution, the Sanitary Authority may specify additional conditions to this permit.
15. This permit, or a photocopy thereof, shall be displayed at the Mobile Park office.

AMENDMENTS TO DISCHARGE STANDARDS

Amend Section 21.006 DEFINITIONS (OAR Chapter 334, Division 2, Air Pollution Subdivision 1)

(30) Hot Mix Asphalt Plant: A hot mix asphalt plant will be considered the plants incorporating such operations as conveying proportioned quantities (or batch loading) of cold aggregate to a drier, and heating, drying, screening, classifying, measuring and mixing the aggregate and asphalt for the purposes of paving.

(31) Efficiency of Collection: Efficiency of collection shall be applied to the overall performance of the control equipment in terms of ratio of material collected to total input to the collector unless specific size fractions of the contaminant are stated or required.

(32) Process Weight Per Hour: "Process Weight" is the total weight of all materials introduced into any specific process which process may cause any discharge into the atmosphere. Solid fuels charged will be considered as part of the process weight, but liquid and gaseous fuels and combustion air will not. "The Process Weight Per Hour" will be derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle.

(33) Dusts: "Dusts" are minute solid particles released into the air by natural forces or by mechanical processes such as crushing, grinding, milling, drilling, demolishing, shoveling, conveying, covering, bagging, sweeping, etc.

(34) Condensed Fumes: "Condensed Fumes" are minute solid particles generated by the condensation of vapors from solid matter after volatilization from the molten state, or may be generated by sublimation, distillation, calcination, or chemical reaction, when these processes create air-borne particles.

HOT MIX ASPHALT PLANTS

Section A: Special Control Areas:

Hot mix asphalt plants located in the following designated areas of the state shall provide systems or processes for the control of atmospheric emissions from the stack which shall comply with the emission limits established by Table I and with Sections 21-011, 21-016 and 21-021 of Subdivision 1.

1. In all areas of air quality control regions established under Oregon Laws 1967, Chapter 425.
2. In all areas of the state within six miles of any incorporated city (measured from the city limits).
3. In all areas of the state within 1/2 mile of any residence.

Section B: Other Areas of the State:

Hot mix asphalt plants located outside of special control areas designated in Section A shall provide systems or processes for the control of atmospheric emissions having a minimum overall collection efficiency of 80% by weight and except for portable asphalt plants temporarily located at such distance, public areas, or agricultural lands that particulate matter creates no hazard to human, animal or plant life, shall comply with Sections 21-011, 21-016 and 21-021.

TABLE I

PROCESS WEIGHT TABLE

<u>Process Wt/hr (lbs)</u>	<u>Maximum Weight Disch/hr (lbs)</u>	<u>Process Wt/hr (lbs)</u>	<u>Maximum Weight Disch/hr (lbs)</u>
50	.24	3400	5.44
100	.46	3500	5.52
150	.66	3600	5.61
200	.85	3700	5.69
250	1.03	3800	5.77
300	1.20	3900	5.85
350	1.35	4000	5.93
400	1.50	4100	6.01
450	1.63	4200	6.08
500	1.77	4300	6.15
550	1.89	4400	6.22
600	2.01	4500	6.30
650	2.12	4600	6.37
700	2.24	4700	6.45
750	2.34	4800	6.52
800	2.43	4900	6.60
850	2.53	5000	6.67
900	2.62	5500	7.03
950	2.72	6000	7.37
1000	2.80	6500	7.71
1100	2.97	7000	8.05
1200	3.12	7500	8.39
1300	3.26	8000	8.71
1400	3.40	8500	9.03
1500	3.54	9000	9.36
1600	3.66	9500	9.67
1700	3.79	10000	10.0
1800	3.91	11000	10.63
1900	4.03	12000	11.28
2000	4.14	13000	11.89
2100	4.24	14000	12.50
2200	4.34	15000	13.13
2300	4.44	16000	13.74
2400	4.55	17000	14.36
2500	4.64	18000	14.97
2600	4.74	19000	15.58
2700	4.84	20000	16.19
2800	4.92	30000	22.22
2900	5.02	40000	28.3
3000	5.10	50000	34.3
3100	5.18	60000	40.0
3200	5.27	or	
3300	5.36	more	



COUNTY COMMISSIONERS

M. JAMES GLEASON, Chairman
L. W. AYLSWORTH
DAVID ECCLES
DAN MOSEE
MEL GORDON

Multnomah County Oregon

P. C. NORTHROP, DIRECTOR, DEPARTMENT OF PUBLIC WORKS

MAIN OFFICE (503) 233-5861 ■ 2115 S. E. MORRISON STREET ■ PORTLAND, OREGON 97214

March 28, 1968

John D. Mosser, Chairman
Oregon State Sanitary Authority
State Office Building
1400 S. W. 5th Avenue
Portland, Oregon 97204

RE: CENTRAL COUNTY SERVICE DISTRICT NO. 3
Sewage Treatment Plant - WPC - ORE - 193

Dear Sir:

Multnomah County and the Columbia Region Association of Governments have been studying the problem of providing sewer service to the Central County Master Plan Area. We have been unable to complete this study to determine how this area could be served most efficiently. We, therefore, request that a decision on the above project be delayed until April 12, 1968 so that we can complete this study.

Your cooperation in this matter has been appreciated.

Very truly yours,

M. JAMES GLEASON, Chairman
BOARD OF COUNTY COMMISSIONERS

MJG:ct

Sanitation & Engineering
Oregon State Board of Health
RECEIVED
MAR 28 1968

DNF	TEMP	PERM
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