

WASTEWATER LAND APPLICATION PERMIT

DEPARTMENT OF HEALTH AND WELFARE
DIVISION OF ENVIRONMENTAL QUALITY
224 South Arthur
Pocatello, Idaho 83204-3202
(208) 236-6160

ISSUED To:

SOURCES COVERED BY THIS PERMIT:

City of Inkom

Type of Waste
Municipal Wastewater

Method of Treatment
Land Application

PLANT TYPE AND LOCATION:

AREA INFORMATION:

Municipal Sewage Treatment
P.O. Box 386
Inkom, ID 83245

County: Bannock

Nearest surface stream which
may receive runoff from
wastewater treatment area:

Portneuf River

Issued in response to Application No. LA-000107 received March 1991.

SIGNED BY:


RICHARD P. DONOVAN, DIRECTOR
DEPARTMENT OF HEALTH AND WELFARE

8-1-91
DATE

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify or operate a wastewater land application treatment system in conformance with requirements, limitations and conditions set forth in the attached schedules, as follows:

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This permit does not relieve the City of Inkom, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules or standards.

SECTION I - SPECIFIC PERMIT CONDITIONS

SCHEDULE A

Wastewater, Site, and Facility Management Conditions

1. The permittee is allowed to apply up to approximately 0.42 million gallons of wastewater during the months of May through October, and treat it on 20 acres of land (referenced in the site map in Appendix "A" which is incorporated by reference into this permit) in accordance with the conditions of this permit. The wastewater shall be managed in accordance with the plan of operation. The plan of operation shall be incorporated by reference into this permit, and shall be enforceable as a part of this permit.
2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the Department authorizing a discharge into the waters of the State as stated in IDAPA 16.01.2600,02.
3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA Section 16.01,2600,03. In order to prevent public health hazards and nuisance conditions the permittee shall:
 - a. Apply wastewater as evenly as practicable to the entire treatment area;
 - b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
 - c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.
4. As a result of the land application of wastewater, ground waters of the state must not contain contaminants exceeding those values as referenced under IDAPA 16.01.2250,06 and 07 of the Idaho Water Quality Standards and Wastewater Treatment Requirements. In order to comply with the above regulation, the permittee shall:
 - a. Manage the wastewater land application treatment site as an agricultural operation where crops or vegetative cover are grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,

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- b. Not hydraulically overload any particular areas of the wastewater land application treatment site, especially during the non-growing season. Wastewater hydraulic loading shall not exceed 1.5 inches per week, based on a monthly average.
5. If livestock are to be grazed, a grazing management plan shall be submitted to the Department, prior to grazing, for review and approval. The Grazing management plan, if approved, shall be incorporated by reference into this permit, and shall be enforceable as a part of this permit
6. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or the Waste Water Land Application Permit Regulations.
7. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created. Disposal methods and sites are required to be reviewed and approved by the Department.

SCHEDULE B

Monitoring and Reporting Requirements

The permittee shall monitor the operation and efficiency of all treatment facilities. Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored. Unless otherwise agreed to in writing by the Department, data collected and submitted shall include, but not be limited to, the following parameters and frequencies.

1. Wastewater Monitoring (during application periods):

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|----------------------------------|------------------|-----------------------|
| Total flow (GPD) | Daily | Weir Measurement |
| Chlorine Residual | Weekly | Test Kit |
| COD | Monthly | Grab |
| Total Kjeldahl Nitrogen (TKN) | " | " |
| Nitrate-Nitrogen | " | " |
| Fecal Coliform Bacteria | " | " |

2. Treatment Field Monitoring(during application periods):

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|--|------------------|-----------------------|
| Field number, acres and hydraulic application rate (inches/week) | Weekly | Calculation |
| COD Applied (lbs/acre/day) | Monthly | Calculation |
| Total Nitrogen Applied (lbs/acre) | Monthly | Calculation |

3. Soil Monitoring:

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|--------------------------|---------------------|-----------------------|
| Nitrate-N | Annual (October) | Composite* |
| Ammonia-N | " | " |
| SAR | " | " |
| EC | " | " |

*Five subsamples shall be taken at two depths, 0-12 and 12-24 inches. These subsamples shall be taken so as to be areally representative of the land application area. The five subsamples shall be composited yielding two (2) composite samples for analysis, one composite sample of the 0-12 inch layer, and one from the 12-24 inch layer.

4. Plant Tissue Monitoring:

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|--|------------------------|-------------------------|
| TKN-N (ppm) Nitrate-N (ppm) | Annual (at harvest) | Plant Tissue Samples |
| Crop Yield | Annual (at harvest) | Calculation |
| Total Nitrogen Removed from Land Application site* | Annual (at harvest) | Calculation |

*For each crop grown on the land application site, TKN-N and nitrate-nitrogen concentrations of the harvested commodity shall be obtained from one representative field for each crop. Multiply nitrogen concentration in harvested commodity by yield in appropriate units to get pounds of total nitrogen removed.

5. Ground Water Monitoring (see Appendix A):

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|--------------------------|------------------|-----------------------|
| Iron | Annual (Oct.) | Grab |
| Nitrate | " | " |
| Specific Conductance | " | " |

5. Ground Water Monitoring cont'd:

| <u>Item or Parameter</u> | <u>Frequency</u> | <u>Type of Sample</u> |
|--------------------------|------------------|-----------------------|
| Manganese | Annual (Oct.) | Grab |
| Static water level | " | instantaneous |

*The monitoring wells shall be purged a minimum of three (3) casing volumes prior to obtaining a sample of the ground water. The depth to water or static water level shall be measured prior to pumping or sampling the ground water.

6. Annual Report: an annual report shall be submitted no later than January 30 of each year and shall cover the previous operating year from January 1 through December 31.

The permittee shall provide an annual report to include the following:

- a. Total quantity of wastewater applied (gallons and acre feet per year and acre-feet per year by field).
- b. COD applied (pounds per acre per year by field and total pounds).
- c. Nitrogen applied (pounds per acre per year by field and total pounds).
- d. Crop harvested (tons/acre) and nitrogen removal (see Plant Tissue Sampling).
- e. Progress report on any Compliance Schedule activities.
- f. All monitoring, testing and inspection results.
- g. Ground water Status Report (an informal interpretive report of the year's data with respect to ground water impacts by the facility).

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SCHEDULE C

Compliance Conditions and Schedules

1. Three (3) groundwater monitoring wells shall be constructed by October 1, 1991. The well locations shall be approved by DEQ prior to construction. Well construction shall be according to approved plans and specifications.
2. Before land application takes place, an earthen berm shall be constructed between the land application area and the river to prevent any runoff to the river.
3. The land application area shall be posted before land application to prevent trespass. The signs shall state that the site is used for land application of municipal wastewater.

SECTION II - STANDARD PERMIT CONDITIONS

SCHEDULE D

Procedural and Reporting Conditions

1. The permittee shall comply with all conditions of the permit.
2. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these regulations.
3. The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.
4. The permittee shall allow the Director, consistent with Title 39, Chapter 1, Idaho Code, to:
 - a. enter the permitted facility,
 - b. inspect any records that must be kept under the conditions of the permit.
 - c. inspect any facility, equipment, practice, or operation permitted or required by the permit.
 - d. sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
5. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
 - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
 - b. In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition or these regulations.
 - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at

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telephone numbers provided in the permit by the Director
(see below)

Pocatello DEQ Office (208) 236-6160

DEQ Central Office- (208) 334-5860

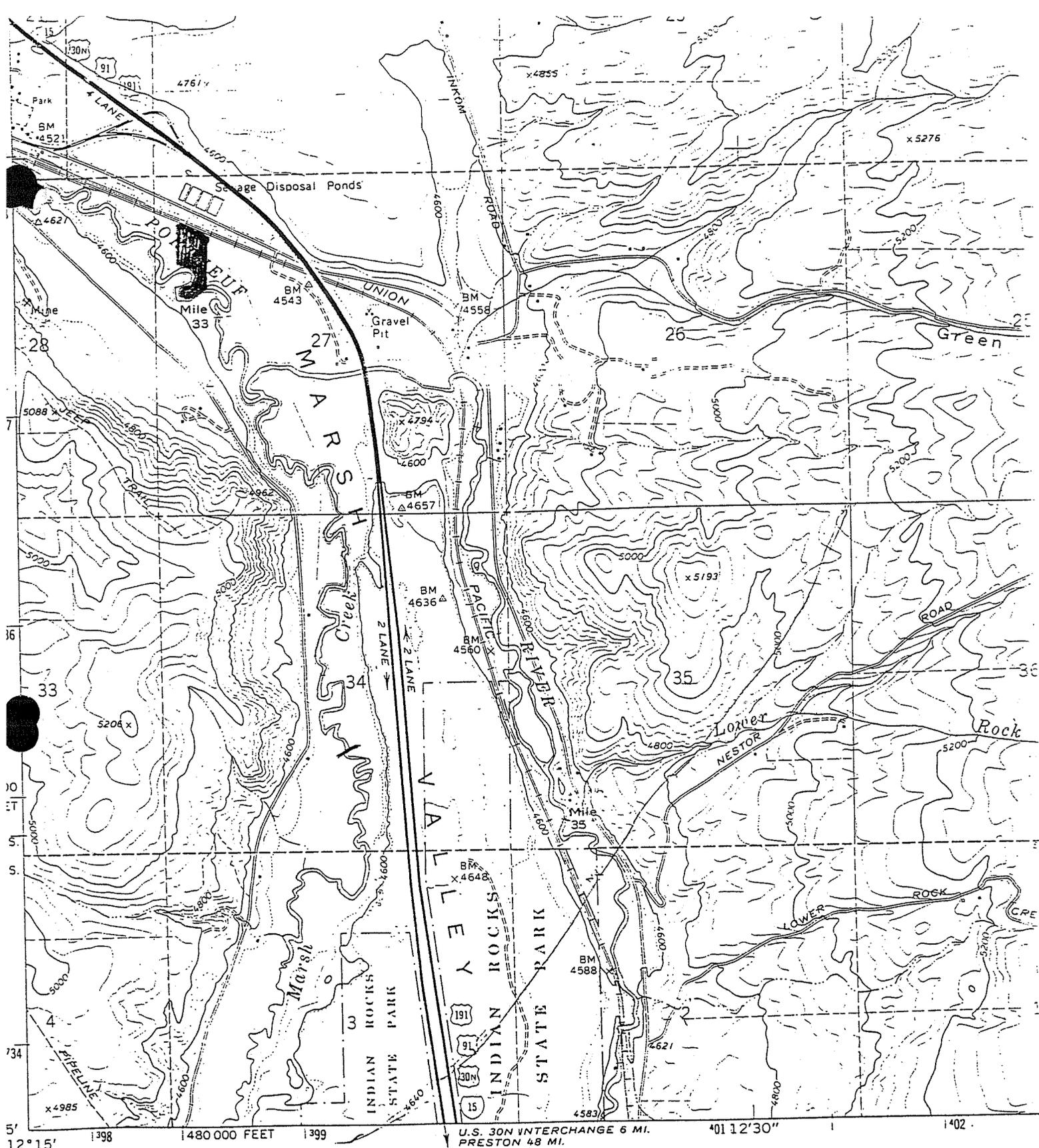
- d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain:
 - i. A description of the noncompliance and its cause;
 - ii. The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - iii. Steps taken or planned to reduce or eliminate reoccurrence of the noncompliance.
 - e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.
6. The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance.

SCHEDULE E

Modification, Violation, and Revocation Conditions

1. Both minor and major modifications may be made to this permit as stated in IDAPA 16.01.17700,01 and 02 with respect to any conditions stated in this permit upon review and approval of the Department.
2. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the Department that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the necessary reports, plans and specifications for the proposed changes. No facility expansion, production increase or process modification which may change the conditions of this permit shall be made until plans have been reviewed and approved by the Department and a new permit or permit modification has been issued.
3. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.
4. Any person violating any provision of the Waste Water Land Application Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.
5. The Director may revoke a permit if the permittee violates any permit condition or the Waste Water Land Application Permit Regulations.

6. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within twenty (20) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing.
7. The Director shall notify the permittee in writing of any revocation hearing at least twenty (20) days prior to the date set for such hearing. The hearing shall be conducted in accordance with Title 67, Chapter 52, Idaho Code.
8. If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing the Director shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with Title 67, Chapter 52, Idaho Code.
9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Polyconic projection. 1927 North American datum
 630,000-foot grid based on Idaho coordinate system,
 east zone
 1000-meter Universal Transverse Mercator grid ticks,
 zone 12, shown in blue
 Fine red dashed lines indicate selected fence lines

GN MN
 0° 48' 12 MILS 300 MILS
 UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

1 1/2
 1000 0 1000
 1 5
 CONT.
 DOTTED LINE
 [Symbol] = Proposed Land Application Area