

**DIVISION OF AIR AND WATER QUALITY  
WASTEWATER DISCHARGE PROGRAM**

610 University Avenue  
Fairbanks, AK 99709-3643  
PHONE: (907) 451-2360  
FAX: (907) 451-2187  
<http://www.state.ak.us/dec/>

January 29, 2002

File: 420.45.006

Mr. Jacob Kagak, Director  
North Slope Borough/DMS  
P.O. Box 69  
Barrow, Alaska 99507

**Certified Mail 7099 3400 0015 5441 2240**  
**Return Receipt Requested**

Re: Wastewater Disposal Permit No. 0036-DB034 for the Point Hope Wastewater Treatment Plant.

Dear Mr. Kagak:

The Department of Environmental has completed its review of the request for a wastewater disposal permit from the North Slope Borough, and is issuing ADEC Wastewater Disposal Permit 0036-DB034. The permit will allow the discharge of a maximum of 28,000 gallons per day of secondary treated domestic wastewater, with chlorination, from the wastewater treatment facility at Point Hope, into a drain field located approximately 600 feet West of the treatment plant. In addition to domestic wastewater, the Point Hope Wastewater Treatment Plant will periodically treat approximately 500 to 1,000 gallons per month of non-domestic wastewater used for maintenance of the membrane filters at the Water Treatment Plant. The activity will take place at Latitude 68° 20' 75" N, Longitude 166° 44' 75" W.

Please review the conditions and stipulations in this permit and make sure they are all understood. This permit is effective January 29, 2002 and expires January 28, 2007. This State of Alaska Wastewater Discharge Permit is being issued in accordance with AS 46 and 18 AAC 15.

New regulations requiring a flat annual fee for wastewater permits can be found in 18 AAC 72. A separate invoice will be mailed to your facility.

If you disagree with this decision you may request an adjudicatory hearing in accordance with 18 AAC 15.200-910. The request should be sent by certified mail, return receipt requested, to:

Commissioner,  
Alaska Department of Environmental Conservation  
410 Willoughby Avenue, Suite#303  
Juneau, Alaska 99801-1795.

*Clean Air, Clean Water*

A copy of the request shall also be sent to the undersigned. Failure to submit a request within thirty days of receipt of this letter shall constitute a waiver of your right to administrative review of the decision. In addition, any other person who disagrees with this decision may request an adjudicatory hearing within thirty days of receipt of the enclosed permit. Any hearing granted will be limited to issues related to the issuance of this permit.

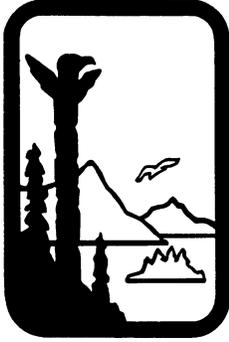
Sincerely,

**SIGNATURE ON FILE**

William D. McGee  
Technical Engineer

Enc.: Permit No. 0036-DB034

cc: Abigail Ogbe, ADEC/Fairbanks  
Tim Wingerter, ADEC/Fairbanks  
ADF&G/Fairbanks  
ADNR/ Fairbanks  
NSB Mayor/Barrow  
Paul Schuitt, PMC/Anchorage



**STATE OF ALASKA  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
610 UNIVERSITY AVENUE  
FAIRBANKS, AK 99709-3643**

**WASTEWATER DISPOSAL PERMIT**

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**Permit 0036-DB034**

**Date: January 29, 2002**

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This Wastewater Disposal Permit is issued to North Slope Borough, for the disposal of a maximum of 28,000 gallons per day of secondary treated domestic wastewater, with chlorination from the wastewater treatment facility at Point Hope into a drain field located approximately 600 feet West of the treatment plant. After chlorination, the treated wastewater flows into an equalization tank and then discharged into the drain field for further treatment. In addition to domestic wastewater, the Point Hope Wastewater Treatment Plant will periodically treat approximately 500 to 1,000 gallons per month of non-domestic wastewater used for maintenance of the membrane filters at the Water Treatment Plant. The activity will take place at Latitude 68° 20' 75" N, Longitude 166° 44' 75" W.

This permit is subject to the conditions and stipulations contained in Appendices A and B, which are incorporated herein by reference. Appendix C is the form to be used for reporting discharge monitoring results. Noncompliance notification and accidental discharge/sewage spill forms are also attached. Copies should be made from the original for reporting purposes.

This permit is effective January 29, 2002 and expires January 28, 2007. It may be terminated or modified in accordance with AS 46.03.120.

**SIGNATURE ON FILE**

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William D. McGee  
Technical Engineer

## APPENDIX A - SPECIFIC PERMIT CONDITIONS

### I. EFFLUENT LIMITATIONS

- a. During the period beginning on the effective date of this permit and lasting through the expiration or termination date, the permittee is authorized to discharge secondary treated domestic wastewater from the wastewater treatment facility at Point Hope, Alaska.
- b. The non-domestic waste stream used for maintenance of the membrane filters must be metered-in at a rate not greater than 100 gallons per day. The pH of the non-domestic wastewater must not be less than 6 or greater than 9.
- c. The treated domestic wastewater is discharged from an equalization tank at the wastewater treatment plant into a drain field. The wastewater discharged from the secondary treatment plant into the drain field shall not exceed the following limitations:

Effluent Characteristics	Minimum Value	30-Day Average	Maximum Value
Total Flow	N/A	Report	28,000 gallons per day
Biochemical Oxygen Demand	N/A	30 mg/l	60 mg/l <sup>1</sup>
Total Suspended Solids	N/A	30 mg/l <sup>1</sup>	60 mg/l <sup>1</sup>
Fecal Coliform Bacteria	N/A	200 per 100 ml <sup>2</sup>	800 per 100 ml <sup>3</sup>
pH	6	N/A	9
Dissolved Oxygen	2 mg/l	N/A	N/A
Total Chlorine Residual	N/A	N/A	2 mg/l

Footnotes:

<sup>1</sup> milligrams per liter (mg/l);

<sup>2</sup> milliliter (ml);

<sup>3</sup> not more than 10% of the samples taken may exceed this value;

- d. The discharge must be free of any additives such as antifreeze solutions, methanol, solvents, corrosion inhibitors, garbage, toxic substances, grease or oils which produce a sheen, foam (other than trace amounts), or other contaminants.
- e. The discharge must not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70).
- f. No other treated or untreated wastewater, sludge, or other materials shall be discharged to the lands or waters of the state unless otherwise approved by the department.

## **II. MONITORING AND REPORTING**

### a. MONITORING OF PLANT EFFLUENT

The permittee must monitor the wastewater effluent in the following manner:

<b><u>Effluent Characteristic</u></b>	<b><u>Minimum Frequency</u></b>	<b><u>Sample Type</u></b>
Total Flow	5 per week	measured or estimated
5-day Biochemical Oxygen Demand	1 per month <sup>2</sup>	Grab or composite <sup>1</sup>
Total Susp. Solids	1 per month <sup>2</sup>	Grab or composite <sup>1</sup>
Total Chlorine Residual	1 per Week <sup>2</sup>	Grab
Fecal Coliform Bacteria	1 per month <sup>2</sup>	Grab
pH	1 per Week <sup>2</sup>	Grab
Dissolved Oxygen	1 per Week <sup>2</sup>	Grab

Footnotes:

<sup>1</sup> Composite samples must consist of at least four equal volume grab samples, two of which must be taken during periods of peak flow (7-9 a.m. and 6-8 p.m.).

<sup>2</sup> Week shall be the time period of Sunday through Saturday. Month shall be the time period of the calendar month. Quarter shall be the time period of three months based on the calendar year beginning with January. Twice per year or bi-annual shall consist of two time periods during the calendar year, (Oct. through April and May through Sept.). Annual or yearly shall be once per calendar year.

### b. TEST PROCEDURES

Test procedures for the analysis of pollutants must conform to methods sited in 18 AAC 70.020(c), or 40 CFR Part 136. The permittee may substitute alternative methods of monitoring or analysis upon receipt of prior written approval from the Department.

### c. REPRESENTATIVE SAMPLING

Samples and measurements taken as required must be representative of the volume and nature of the monitored discharge. Composite samples should be flow proportional if possible. Grab samples should be collected at peak daily flow.

d. ADDITIONAL MONITORING

If the permittee monitors any influent or effluent characteristic identified in this permit more frequently than required, the results of such monitoring must be reported to the Department in the monitoring report. The Department will not require the reporting of results of analysis that are conducted on site for training purposes, if the Department is notified in advance, in writing, of the intent of the analysis.

**III. REPORTING**

Monitoring results obtained during a reporting period must be summarized and reported to the Department and postmarked no later than the 14th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, must be submitted to the Department at the following address:

Alaska Dept. of Environmental Conservation  
Division of Air and Water Quality  
610 University Avenue  
Fairbanks, Alaska 99709-3643  
Telephone: (907) 451-2130  
Fax: (907) 451-2187

Knowingly making a false statement, by the permittee, the operator, or other employees, including contractors, on any such report may result in the imposition of criminal penalties as provided for under AS 46.03.790.

**IV. MANAGEMENT PRACTICES**

a. PROPER OPERATION AND MAINTENANCE

The permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

b. REMOVED SUBSTANCES

Collected grit, scum, sludge, or other pollutants removed in the course of treatment or control of wastewater must be disposed of in a state or federally approved, permitted manner. Collected grit, scum or sludge should not be stored onsite for more than 9 months. Substances removed during the course of treatment must be disinfected before final disposal at the landfill. Removed substances should be treated with lime (Calcium Oxide) at the disposal site. If this facility wishes to dispose of these substances onsite, the disposal must be addressed in a separate permit.

c. WARNING SIGNS

Appropriate permanent signs shall be provided along the fence around the wastewater drain field, to designate the nature of the facility and advise against trespassing. At least one sign shall be provided on each side of the fence. The signs must provide the identity and telephone numbers of the permittee; must inform the public that wastewater is being discharged and that there shall be no trespassing.

V. RECORDS RETENTION

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, and calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation must be retained in Alaska for observation by the Department for five years. Upon request from the Department, the permittee must submit certified copies of such records.

VI. CHANGE IN DISCHARGE

All discharges authorized herein must be consistent with the terms and conditions of this permit. The discharge of any pollutant or toxic material, (including oil, grease, or solvents), more frequently than, or at a concentration or limit not authorized, shall constitute noncompliance with the permit. Any anticipated facility expansions, flow increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new wastewater disposal permit application and request for a plan review, at least thirty days before the implementation of any changes.

VII. TOXIC POLLUTANTS

If a new or revised toxic pollutant (including oil, grease, or solvents) concentration standard is established in accordance with 18 AAC 70, for a pollutant present in this discharge, and such new standard is more stringent than the limitation in this permit, this permit is considered to be modified in accordance with the new toxic pollutant concentration standard.

VIII. ACCIDENTAL DISCHARGES

The permittee must provide protection from accidental discharges not in compliance with the provisions of this permit. Facilities to prevent such discharges must be maintained in good working condition at all times by the permittee. If an accidental discharge occurs, the permittee must report the event to the Department within 24 hours, or as soon as possible after becoming aware of such conditions. The attached accidental discharge/spill notification form shall be completed and sent to the Department as a follow-up written report.

**IX. NONCOMPLIANCE NOTIFICATION**

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee must report the noncompliance to the Department within 24 hours, or as soon as possible after becoming aware of such conditions.
- b. A written follow-up report must be sent to the Department within seven days of the noncompliance event unless waived by the Department contact. Permittees may use the attached noncompliance notification form to report noncompliance. A written report must contain, but not be limited to:
  - i. Times and dates on which the event occurred, and if not corrected, the anticipated time the noncompliance is expected to continue.
  - ii. A detailed description of the event, including quantities and types of materials involved.
  - iii. Details of any actual or potential impact on the receiving environment or public health.
  - iv. Details of actions taken or to be taken to correct the causes of the event.
  - v. Details of actions taken or to be taken to correct any damage resulting from the event.
- c. It is recognized that influent quality changes, equipment malfunctions, or uncontrollable circumstances may sometimes result in effluent concentrations exceeding the permit limitations, despite the exercise of all possible care and maintenance measures and corrective measures by the permittee. The permittee must demonstrate to the Department that such circumstances did exist where, despite all evasive measures, the effluent concentrations exceeded those set forth in this permit. The Commissioner shall consider such evidence in determining departmental actions. The Department does not waive any of its legal rights during such consideration.

**X. TRANSFER OF OWNERSHIP**

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee must notify the succeeding owner or controller of the existence of this permit in writing, a copy of which must be forwarded to the Department of Environmental Conservation at the address in this permit. The original permittee remains responsible for permit compliance unless and until the succeeding owner or controller agrees in writing to assume such responsibility, and the Department approves assignment of the permit. The Department will not unreasonably withhold such approval.

## **APPENDIX B - GENERAL PERMIT CONDITIONS**

### **I. ACCESS AND INSPECTION**

The permittee must allow the Commissioner or his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, state laws and regulations.

### **II. INFORMATION ACCESS**

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit must be available for public inspection at the State of Alaska Department of Environmental Conservation, Division of Air and Water Quality, 610 University Avenue, Fairbanks, Alaska 99709.

### **III. CIVIL AND CRIMINAL LIABILITY**

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

### **IV. AVAILABILITY**

The permittee must post or maintain a copy of this permit available to the public at the disposal facility.

### **V. ADVERSE IMPACT**

The permittee must take all necessary precautions to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the non-complying activity. The permittee must cleanup and restore all areas adversely impacted by the noncompliance.

### **VI. CULTURAL OR PALEONTOLOGICAL RESOURCES**

Should cultural or paleontological resources be discovered as a result of this activity, work, which would disturb such resources, is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-269-8721).

**VII. APPLICATIONS FOR RENEWAL**

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.

**VIII. OTHER LEGAL OBLIGATIONS**

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit must comply with all applicable federal and state laws and regulations.

**IX. POLLUTION PREVENTION**

In order to prevent and minimize present and future pollution, when making management decisions that effect waste generation, the permittee shall consider the following order of priority options:

- i. Waste source reduction.
- ii. Recycling of waste.
- iii. Waste treatment.
- iv. Waste disposal.