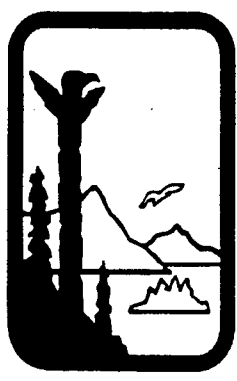


STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION



WASTEWATER DISPOSAL PERMIT

Permit: 0211-DB007 Effective Date: April 1, 2003
Expiration Date: March 31, 2008

Issued to: City and Borough of Juneau

Facility Name: Lena Point Subdivision Outfall

Location of Discharge: Section 24, T 40S, R 64E and Sec 19, T 40S, R 65E, - Lena Point Subdivision, North of Juneau, AK

Description of Discharge Point: An 8 inch diameter outfall line which extends 400 feet from shore, with an 8 foot long, 8 inch diameter diffuser, which terminates at a depth of -14 feet M.L.L.W

Latitude: 58°23' 01" N., **Longitude:** 134°45' 46" W

Waterbody or Surface discharged to: Favorite Channel

Maximum Volume: 85,000 gallons per day (gpd)

Type of Treatment: Secondary treatment with disinfection

This permit is subject to the conditions and stipulations incorporated herein. This State of Alaska Wastewater Discharge Permit is being issued in accordance with AS 46 and 18 AAC 15. It may be terminated or modified in accordance with AS 46.03.120.

A Discharge Monitoring Report (DMR) is attached and is to be used for reporting discharge-sample analysis results. Noncompliance notification and accidental discharge/sewage spill forms are also attached. Copies should be made from the original for reporting purposes.

Preliminary Draft

William D. McGee
Technical Lead

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1. SPECIFIC PERMIT CONDITIONS

1.1. EFFLUENT AND MIXING ZONE LIMITATIONS

1.1.1. DISCHARGE RESTRICTIONS

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.

1.1.2. COMPLIANCE WITH ALASKA ADMINISTRATIVE CODE

The discharge must not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70) or 18 AAC 72.

1.1.3. CHANGE IN DISCHARGE

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.

1.1.4. TEST PROCEDURES

Test procedures for the analysis of pollutants must conform to methods sited in 18 AAC 70.020, or as such regulations may be amended. The permittee may substitute alternative methods of monitoring or analysis upon receipt of prior written approval from the department.

1.1.5. REPRESENTATIVE SAMPLING

Samples and measurements taken as required must be representative of the volume and nature of the monitored discharge. Effluent samples must be collected from the effluent discharge line prior to release onto the land surface or entry into a water body. Mixing zone samples should be collected, if safely possible, from the down current leading edge of the plume, just outside of the mixing zone boundary. Shoreline samples, if required, must be collected from the shoreline area of human use closest to the effluent line outlet or center of the diffuser. If flow does not extend to the edge of the mixing zone boundary during the required monitoring period, sample collection is not required and the reason for the absence of flow should be indicated on the discharge monitoring report.

1.1.6. EFFLUENT LIMITATIONS & MONITORING

- 1.1.6.1. The disinfected, secondary treated domestic wastewater is discharged to Favorite Channel, via an 8 inch diameter outfall line which extends 400 feet from shore, with an 8 foot long, 8 inch diameter diffuser, which terminates at a depth of -14 at M.L.L.W. The permit limits must be met at the end of the effluent line, prior to discharge into the receiving body, with the exception of

the mixing zone fecal coliform, total chlorine, dissolved oxygen and pH limitations, which must meet the specified limitations at the outer edge of the mixing zone, (mixing zone size and shape is defined in section 1.1.7.1 below).

1.1.6.2. The permittee must monitor the wastewater effluent in the following manner while the treated wastewater is being discharged.

Effluent Characteristic	Minimum Value	Monthly Average	Weekly Average	Maximum Value	Units	Frequency of Analysis	Sample Type
total Flow	/A	0,000	/A	85,000	gpd	Weekly -- 52/year	measured
fecal Coliform bacteria (FC) ¹ If UV is used)	/A	00	00	1200	FC per 100 mL	Monthly -- 12/year	grab
fecal Coliform bacteria (FC) ¹ If Cl is used)	/A	00	00	800	FC per 100 mL	Monthly -- 12/year	grab
5-day biochemical oxygen Demand	/A	0	5	60	mg/L	Monthly -- 12/year	grab or composite ²
total Suspended solids	/A	0	5	60	mg/L	Monthly -- 12/year	grab or composite
total Chlorine ³ If Cl is used)	/A	/A	/A	0.06	mg/L	Daily 5/week	grab
pH		/A	/A	9	S.U.	Weekly -- 52/year	grab
dissolved Oxygen		/A	/A	17	Mg/L	Weekly -- 52/year	grab

Footnotes

1. The monthly and weekly average for effluent fecal coliform bacteria sample results must be reported as the geometric mean.
2. 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.).
3. The detection limit for total chlorine is 0.1 mg/l.

1.1.7. MIXING ZONE LIMITATIONS AND MONITORING

1.1.7.1. This discharge is assigned a mixing zone to meet the Alaska Water Quality Standards (18 AAC 70) for fecal coliform bacteria, pH, total chlorine and dissolved oxygen. The mixing zone for this discharge will have a dilution factor of 30:1 and is defined as the area of 50 foot radius, centered over the diffuser and extending from the marine bottom to the surface. It shall be the responsibility of the permittee to inform this department, in writing, if water from inside of the mixing zone is used, or is intended to be used, as a water supply for aquaculture, human consumption or food processing, or if any area inside the mixing zone is used for contact water recreation or the harvesting for human consumption of raw mollusks or other raw aquatic life. These water uses are defined in the Alaska Water Quality Standards (18 AAC 70).

- 1.1.7.2. The permittee must monitor the receiving waterbody (outside the mixing zone) in the following manner while the treated wastewater is being discharged.
- 1.1.7.3. Mixing zone limits for dissolved oxygen, total chlorine, pH, and fecal coliform bacteria, must be met at the outer edge of the mixing zone. The wastewater discharged to the lands or waters of the state must not exceed the following limitations:

Mixing Zone Characteristic	Minimum Value	Monthly Average	Maximum Value	Units	Frequency of Analysis	Sample Type
ecal Coliform Bacteria Outside edge of MZ) ¹	/A	4	43 ²	FC per 100 mL	Quarterly -- 4/year, (min. 2 locations)	Grab
ecal Coliform Bacteria Shoreline near MZ) ¹	/A	Report	Report	FC per 100 mL	Quarterly-- 4/year	Grab
otal Chlorine (If Cl is sed), (Outside edge of Z) ⁵	/A	/A	/A	0.002 mg/l	Upon Dept. Request ³	Grab
H (Outside edge of Z) ⁴	.5	/A	8.5	S.U.	Upon Dept. Request ³	Grab
issolved Oxygen	.0	/A	17	mg/L	Upon Dept. Request ³	Grab

Footnotes

- the monthly average for mixing zone fecal coliform results must be reported as the geometric mean;
- not more than 10% of the samples taken may exceed this value;
- reasonable potential to exceed these limits does not appear to exist and therefore monitoring will not normally be required, however the department may request the monitoring in the future by contacting the permittee.
- pH for freshwater must be within 0.5 S.U. of background, pH for marine must be within 0.2 S.U. of background
- the Alaska Water Quality Standards, (18 AAC 70), limit is 0.002 mg/L for total chlorine, but the detection limit for monitoring and compliance purposes is 0.1 mg/L.

1.1.8. 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 on 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.

1.1.9. REPORTING

Monitoring results obtained during the monthly 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. Reporting must begin at the commencement of discharge. Signed copies of these, and all other reports required herein, must be submitted to the department at the following address:

Alaska State Dept. of Environmental Conservation
Division of Air and Water Quality
410 Willoughby Ave., Suite 303

Juneau, AK 99801
Telephone: 907-465-5366
Fax: 907-465-5274
Email: wq_permit@envircon.state.ak.us

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.

1.2. MANAGEMENT PRACTICES

1.2.1. PROPER OPERATION AND MAINTENANCE

- 1.2.1.1. The permittee must at all times, properly operate and maintain all individual on-lot facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee and the home owners to achieve compliance with the conditions of this permit. To assure the department and the public that these facilities are being adequately maintained and operated, the department shall require the following:
 - 1.2.1.1.1. The permittee must approve and supervise the installation of each on-lot treatment facility,
 - 1.2.1.1.2. each treatment facility shall be inspected at least once per year,
 - 1.2.1.1.3. the inspections must be conducted by a registered professional engineer or adequately trained personnel directly supervised by a registered professional engineer,
 - 1.2.1.1.4. all facility deficiencies must be corrected within 60 days of becoming aware of the deficiencies,
 - 1.2.1.1.5. verification of the correction of deficiencies shall be accomplished by another inspection within 60 days after the deficiency has been corrected,
 - 1.2.1.1.6. an annual report shall be prepared and submitted to the department by February 1st of each year that this permit is in effect,
 - 1.2.1.1.7. the yearly report shall give the date that each facility was inspected, the result(s) of each inspection, the corrective actions taken to correct deficiencies and the date implemented and the date and results of the verification inspections, and
 - 1.2.1.1.8. enforcement provisions must be made to discontinue collection service to facilities that are not adequately maintained.

1.2.2. QUALITY ASSURANCE REQUIREMENTS

- 1.2.2.1 Within 180 days of the effective date of this permit, the permittee shall submit to DEC a Monitoring Program Plan that includes a Quality Assurance/Quality Control (QA/QC) program. In June, 2001, the U.S. EPA delegated its Quality Assurance authority to the Alaska Department of Environmental Conservation. This plan shall address the details of:
- 1.2.2.1.1. all monitoring procedures (e.g., sampling location and relocation, identification of sampling equipment),
 - 1.2.2.1.2. monitoring objectives,
 - 1.2.2.1.3. specific QA/QC procedures including the method detection limits and precision requirements that will insure that program objectives are met,
 - 1.2.2.1.4. how data will be used to evaluate the monitoring objectives,
 - 1.2.2.1.5. name(s), address(es), and telephone number(s) of the laboratories, used by or proposed to be used by the permittee, and
 - 1.2.2.1.6. other activities designed to achieve data quality goals for the monitoring programs.
- 1.2.2.2. DEC recommends that you follow the EPA guidelines for developing Quality Assurance Project Plans, as specified in EPA's QA/R-5 document, Requirements for Quality Assurance Project Plans. You would not need to send QA documents to EPA, but rather directly to DEC. You can find these requirements on the web at www.epa.gov/r10earth/offices/oea/epaqar5.pdf.
- 1.2.2.3. The permittee shall amend the Monitoring Program Plan whenever there is a modification in the sample collection, sample analysis, or other conditions or requirements of the plan.
- 1.2.2.4. Copies of the Monitoring Program Plan shall be kept on site and shall be made available to DEC upon request.

1.2.3. 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 approved, permitted manner.

1.2.4. WARNING SIGNS

At least one sign must be posted near the discharge area, during the discharge period. The sign must provide the identity and telephone numbers of the discharger; must inform the public that a mixing zone exists, that treated wastewater is being discharged and that users of the area should exercise caution.

1.2.5. AIR AND LAND RELEASES

The permittee must not place, deposit, or allow to be placed or deposited on the premises, any material which may produce, cause or contribute to the spread of disease, create a safety hazard or in any way endanger the health of the public.

1.2.6. 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.

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

1.2.7. 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 waste disposal permit application, and request a plan review at least thirty days before the implementation of such changes. Physical changes may also be subject to plan review by the department.

1.2.8. TOXIC POLLUTANTS

If 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.

1.2.9. ACCIDENTAL DISCHARGES AND NONCOMPLIANCE

- 1.2.9.1. 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, of 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.

- 1.2.9.2. 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.
- 1.2.9.3. A written follow-up report must be sent to the department within seven days of the noncompliance event. Permittees may use the attached noncompliance notification form to report noncompliance. A written report must contain, but not be limited to:
 - 1.2.9.3.1. times and dates on which the event occurred, and if not corrected, the anticipated time the noncompliance is expected to continue,
 - 1.2.9.3.2. a detailed description of the event, including quantities and types of materials involved,
 - 1.2.9.3.3. details of any actual or potential impact on the receiving environment or public health,
 - 1.2.9.3.4. details of actions taken or to be taken to correct the causes of the event, and
 - 1.2.9.3.5. details of actions taken or to be taken to correct any damage resulting from the event.
- 1.2.9.4. 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.

1.2.10. 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.

2. GENERAL PERMIT CONDITIONS

2.1. ACCESS AND INSPECTION

The permittee must allow the Commissioner or their 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.

2.2. 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 & Water Quality, 610 University Avenue Fairbanks, Alaska 99709-3643.

2.3. 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.

2.4. 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.

2.5. 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).

2.6. 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.

2.7. 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

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.

2.8. 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:

- Waste source reduction.
- Recycling of waste.
- Waste treatment.
- Waste disposal.

ACRONYMS

18 AAC 15	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 15: Administrative Procedures. Available at http://www.state.ak.us/local/akpages/ENV.CONSERV/title18/title18.htm
18 AAC 70	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 70: Quality Standards. Available at http://www.state.ak.us/local/akpages/ENV.CONSERV/title18/title18.htm
18 AAC 72	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 72: Wastewater Disposal. Available at http://www.state.ak.us/local/akpages/ENV.CONSERV/title18/title18.htm
40 CFR	Code of Federal Regulations Title 40: Protection of Environment
ACMP	Alaska Coastal Management Program
ADEC	Alaska Department of Environmental Conservation
AS 46.03	Alaska Statutes Title 46, Chapter 03: Environmental Conservation
BOD	Biochemical Oxygen Demand
BMP	Best Management Practices
COD	Chemical Oxygen Demand
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	U.S. Environmental Protection Agency
FC	Fecal Coliform
GPD or gpd	Gallons per day
GPY or gpy	Gallons per year
HDPE	High-Density Polyethylene
mg/L or mg/l	Milligrams per liter
MGD or mgd	Million gallons per day
MLLW	Mean Lower Low Water
MZ	Mixing Zone
N/A	Not Applicable

Preliminary Draft

410 Willoughby Ave., Suite 303
Juneau, AK 99801
PHONE: 907-465-5366
FAX: 907-465-5274
<http://www.state.ak.us/dec/>

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

April 1, 2003

File: 1513.45.012

Mr. Steve Gilbertson,
City and Borough of Juneau
155 South Seward Street
Juneau, AK 99801

**Certified Mail
Return Receipt Requested**

Re: Wastewater Disposal Permit No. 0211-DB007 for the Lena Point Subdivision

Dear Mr. Gilbertson:

The Department of Environmental Conservation has completed its review of the City and Borough of Juneau's request for a wastewater permit and is issuing ADEC Wastewater Disposal Permit 0211-DB007.

This permit is effective April 1, 2003 and expires March 31, 2008. Please review the conditions and stipulations in this permit and ensure they are all understood.

Department of Environmental Conservation regulations provide that any person, who disagrees with any portion of the final decision, may request an informal review of the decision or an adjudicatory hearing in accordance with 18 AAC 15.185 or 18 AAC 15.195 - 18 AAC 15.340, respectively. A request for an informal review must be made within 15 days after receiving the department's decision and may be made by mail, electronic mail or facsimile and include the information contained in 18 AAC 15.185. A request for an adjudicatory hearing must be made within 30 days after receiving this letter and should be mailed to the Commissioner of the Alaska Department of Environmental Conservation, 555 Cordova Street, Anchorage, AK. 99501. Pursuant to 18 AAC 15.200(c), a copy of the request for an adjudicatory hearing must be served on the department office that issued the decision being challenged, and on the permit applicant. A copy of the request also must be provided to the department office issuing the decision in an electronic format. Failure to submit a hearing request within thirty days of receipt of the final determination letter shall constitute a waiver of that person's right to judicial review of this decision.

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.

Sincerely,
Preliminary Draft
William D. McGee
Technical Lead

enc: Permit No. 0211-DB007

cc: For File 1513.45.012
Gretchen Keiser, ADEC/Juneau, AK 99801
Tim Wingerter, ADEC/Fairbanks
ADF&G/Juneau, AK 99801
ADNR/ Juneau, AK 99801
DGC/ Juneau, AK 99801
Lena Extended Neighborhood Association/Juneau, AK 99801

ACRONYMS

pH	A measure, in Standard Units (SU), of the hydrogen-ion concentration in a solution. On the pH scale (0 –14), a value of 7 at 25°C represents a neutral condition. Decreasing values, below 7, indicate increasing hydrogen-ion concentration (acidity); increasing values, above 7, indicate decreasing hydrogen-ion concentration (alkalinity).
POTW	Publicly Owned Treatment Works
QAPP	Quality Assurance Project Plan
SU	Standard Units
TAH	Total Aromatic Hydrocarbon
TAqH	Total Aqueous Hydrocarbon
TMDL	Total Maximum Daily Load
TRC	Total Residual chlorine
TSS	Total Suspended Solids
ug/l	Micrograms per liter
WQS	Water Quality Standards
WWTP or WWTF	Wastewater Treatment Plant (or Facility)

DEFINITIONS

Annual	Annual shall be once per calendar year
Aquaculture	The cultivation of aquatic plants or animals for human use or consumption
Average	An arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities
Backwash	the wash water resulting from the backwashing of a water filter
Biochemical Oxygen Demand (BOD)	A measure of the amount of oxygen consumed in the biological processes that break down organic matter in water. The greater the BOD, the greater the degree of pollution
Black Water	Water that contains animal, human, or food waste
Boundary	Line or landmark that serves to clarify, outline, or mark a limit, border, or interface
Chemical Oxygen Demand (COD)	A measure of the oxygen required to oxidize all compounds, both organic and inorganic, in water
Color	The condition that results in the visual sensations of hue and intensity as measured after turbidity is removed
Commissioner	The commissioner of the Alaska Department of Environmental Conservation, or the commissioner's designee
Composite Samples	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.)
Contact Recreation	Activities in which there is direct and intimate contact with water. Contact recreation includes swimming, diving, and water skiing; contact recreation does not include wading
Criterion	A set concentration or limit of a water quality parameter that, when not exceeded, will protect an organism, a population of organisms, a community of organisms, or a prescribed water use with a reasonable degree of safety; a criterion might be a narrative statement instead of a numerical concentration or limit
Department	The Alaska Department of Environmental Conservation
Dissolved Oxygen	The concentration of oxygen in water as determined either by the Winkler (iodometric) method and its modifications or by the membrane electrode method, also The oxygen (g) dissolved in water, wastewater, usually expressed in milligrams per liter, or percent saturation
Ecosystem	System made up of a community of animals, plants, and bacteria, and the system's interrelated physical and chemical environment
Effluent	The segment of a wastewater stream that follows the final step in a treatment process and precedes discharge of the wastewater stream to the receiving environment
Fecal Coliform Bacteria	Bacteria that can ferment lactose at $44.5^{\circ} + 0.2^{\circ}\text{C}$ to produce gas in a multiple tube procedure; "fecal coliform bacteria" also means all bacteria that produce blue colonies in a membrane filtration procedure within 24 ± 2 hours of incubation at $44.5^{\circ} + 0.2^{\circ}\text{C}$ in an M-FC broth. Also, bacteria found in the intestinal tracts of warm-blooded animals. Fecal Coliform's presence in water or sludge is an indicative measure of microbial pathogens and can serve as a warning mechanism for preventing potential human health risks.
Geometric Mean	The geometric mean is the N^{th} root of the product of N . For example $\sqrt[4]{12 \times 23 \times 34 \times 990} = 55$
Grab samples	A sample taken at a given place and time
Grey Water	Domestic wastewater composed of wash water from kitchen, bathroom, and laundry sinks, tubs, and washers
Influent	Wastewater as it enters a wastewater treatment plant

DEFINITIONS

Mean	The average of values obtained over a specified period.
Mean Lower Low Water	The tidal datum plane of the average of the lower of the two low waters of each day, as would be established by the National Geological Survey, at any place subject to tidal influence
Micrograms per liter	The concentration at which one millionth of a gram (10^{-6} g) is found in a volume of one liter
Milligrams per liter (mg/l)	The concentration at which one thousandth of a gram (10^{-3} g) is found in a volume of one liter; it is approximately equal to the unit "parts per million (ppm)," formerly of common use
Mixing Zone	An area in a waterbody surrounding or downstream of, a discharge where the effluent plume is diluted by the receiving water within which specified water quality criteria may be exceeded
Month	Month shall be the time period from the 1 st of a calendar month to the last day in the month
Permittee	A company, organization, association, entity or person who is issued a wastewater permit and is responsible for ensuring compliance, monitoring and reporting as required by the permit
Quality Assurance Project Plan	A system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other technical and reporting activities are of the highest achievable quality.
Quarter	Quarter shall be the time period of three months based on the calendar year beginning with January
Receiving Body	Ocean, bay, marine area, tundra, river, stream, inlet etc. that an outfall line discharges into/onto
Report	Report result of analysis
Residual Chlorine	Chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine
Secondary Recreation	Activities in which incidental water use can occur. Secondary recreation includes boating, camping, hunting, hiking, wading, and recreational fishing. Recreational fishing, does not include fish consumption
Settleable Solids	Solid material of organic or mineral origin that is transported by and deposited from water, as measured by the volumetric Imhoff cone method and at the method detection limits specified in method 2540(F), Standard Methods for the Examination of Water and Wastewater, 18th edition (1992)
Sheen	An iridescent appearance on the water surface
Suspended Solids	Insoluble solids that either float on the surface of, or are in suspension in, water, wastewater, or other liquids. The quantity of material removed from wastewater in a laboratory test, as prescribed in "Standard Methods for the Examination of Water and Wastewater" and referred to as nonfilterable residue (See: total suspended solids).
Total Aqueous Hydrocarbons	Those collective dissolved and water-accommodated monoaromatic and polynuclear aromatic petroleum hydrocarbons that are persistent in the water column; "total aqueous hydrocarbons" does not include floating surface oil or grease
Total Aromatic Hydrocarbons	The sum of the following volatile monoaromatic hydrocarbon compounds: benzene, ethylbenzene, toluene, and the xylene isomers, commonly called BETX
Total Suspended Solids	A measure of the suspended solids in wastewater, effluent, or water bodies, determined by tests for "total suspended non-filterable solids." (See: suspended solids.)
Turbidity	An expression of the optical property that causes light to be scattered and absorbed rather than transmitted in straight lines through a water sample; turbidity in water is caused by the presence of suspended matter such as clay, silt, finely divided organic and inorganic matter, plankton, and other microscopic organisms
Twice per year	Twice per year shall consist of two time periods during the calendar year, (Oct. through April and May through Sept.)

DEFINITIONS

- Wastewater Treatment Any process to which wastewater is subjected in order to remove or alter its objectionable constituents and make it suitable for subsequent use or acceptable for discharge to the environment
- Water Recreation Contact recreation or secondary recreation
- Water Supply Any of the waters of the state that are designated in 18 AAC 70 to be protected for fresh water or marine water uses; water supply includes waters used for drinking, culinary, food processing, agricultural aquacultural, seafood processing, and industrial purposes; "water supply" does not necessarily mean that water in a waterbody that is protected as a supply for the uses listed in this paragraph is safe to drink in its natural state
- Week Week shall be the time period of Sunday through Saturday

**Discharge Monitoring Report
(DMR) – PAGE 1 of 2**

Permit number: 0211-DB007	Expires March 31, 2008
File number: 1513.45.012	

Submit this report to: Alaska Department of Environmental Conservation
410 Willoughby Ave., Suite 303
Juneau, AK 99801
FAX 907-465-5274 or
Phone 907-465-5366

Name: Lena Point Subdivision Outfall		Responsible party:	Steve Gilbertson
Address: 155 South Seward Street, Juneau, AK 99801		Phone / email:	907-586-5252 cynthia_johnson@ci.juneau.ak.us
Facility: Lena Point Subdivision Outfall		Onsite Contact:	CBJ Public Works Dept.
Location: Lena Point, North of Juneau		Fax:	907-586-5385

Required Reporting Frequency Monthly --12/year	Discharge: Discharge: Secondary treated and disinfected domestic wastewater discharged to marine water, (Favorite Channel)	Sample Period:	
		To:	
		From:	

Parameter	Min. Value	30 day Average	7 day Average	Max. Value	Number of Analyses	Number of Violations	Units	Frequency of Analysis	Sample Method
Discharge 1									
Flow Rate	Estmt'd/ Measured	N/A		N/A			mgd	Weekly -- 52/year	Measured
	Permit Limits	N/A	40,000	N/A	85,000	report	report		
Fecal Coliform Bacteria, (UV)	Analytical Results	N/A					#/100 mL	Monthly - 12/year	Grab
	Permit Limits	N/A	400	800	1200	report	report		
Fecal Coliform Bacteria, (Cl)	Analytical Results	N/A					#/100 mL	Monthly - 12/year	Grab
	Permit Limits	N/A	200	400	800	report	report		
Biochemical Oxygen Demand	Analytical Results	N/A					mg/L	Monthly - 12/year	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report		
Total Suspended Solids	Analytical Results	N/A					mg/L	Monthly - 12/year	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report		
Total Chlorine (If Cl is used)	Analytical Results	N/A	N/A	N/A			mg/L	Daily -- 5/week	Grab
	Permit Limits	N/A	N/A	N/A	0.06	report	report		
Dissolved Oxygen	Analytical Results		N/A	N/A			mg/L	Monthly - 12/year	Grab
	Permit Limits	2	N/A	N/A	17	report	report		
pH	Analytical Results		N/A	N/A			Std. Units	Weekly -- 52/year	Grab
	Permit Limits	6	N/A	N/A	9	report	report		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THAT INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.

NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT		
		DATE	TELEPHONE
COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENT HERE)			
CHECK HERE IF THERE WAS NO DISCHARGE DURING THE ENTIRE REPORTING PERIOD			

Discharge Monitoring Report (DMR) – PAGE 2 of 2

Permit number: 0211-DB007	Expires March 31, 2008
File number: 1513.45.012	

Submit this report to: Alaska Department of Environmental Conservation
410 Willoughby Ave., Suite 303
Juneau, AK 99801
FAX 907-465-5274 or
Phone 907-465-5366

Name: Lena Point Subdivision Outfall		Responsible party:	Steve Gilbertson
Address: 155 South Seward Street, Juneau, AK 99801		Phone / email:	907-586-5252 cynthja_johnson@ci.juneau.ak.us
Facility: Lena Point Subdivision Outfall		Onsite Contact:	CBJ Public Works Dept.
Location: Lena Point, North of Juneau		Fax:	907-586-5385

Required Reporting Frequency Monthly --12/year	Discharge: Secondary treated and disinfected domestic wastewater discharged to marine water, (Favorite Channel)	Sample Period:	
		To:	
		From:	

Mixing Zone

Parameter	Min	30 day Average	7 day Average	Max. Value	Number analyses	Number violations	Units	Frequency of Analysis	Sample Method
Fecal Coliform Bacteria (Edge of MZ)	Analytical Results	N/A		N/A			#/100 mL	Quarterly -- 4/year	Grab
	Permit Limits	N/A	14	N/A	43	report			
Fecal Coliform Bacteria (Shoreline)	Analytical Results	N/A		N/A			#/100 mL	Quarterly -- 4/year	Grab
	Permit Limits	N/A	Report	N/A	Report	report			
Total Chlorine (if Cl is used)	Analytical Results	N/A	N/A	N/A			mg/L	Upon Dept. Request	Grab
	Permit Limits	N/A	N/A	N/A	0.002	report			
Dissolved Oxygen	Analytical Results		N/A	N/A			mg/L	Upon Dept. Request	Grab
	Permit Limits	6.0	N/A	N/A	17	report			
pH	Analytical Results		N/A	N/A			Std. Units	Upon Dept. Request	Grab
	Permit Limits	6.5	N/A	N/A	8.5	report			

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NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
	DATE		TELEPHONE
COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENT HERE)			
CHECK HERE IF THERE WAS NO DISCHARGE DURING THE ENTIRE REPORTING PERIOD			



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Division of Air and Water Quality, 610 University Avenue, Fairbanks AK 99709-3643
 Phone: ANCHORAGE (907) 269-3059; FAIRBANKS (907) 451-2130;
 JUNEAU (907) 465-5300 FAX FORM TO: (907) 451-2187
 ATTN: WASTEWATER DISCHARGE PROGRAM

NONCOMPLIANCE NOTIFICATION

GENERAL INFORMATION			PERMIT # (if any):
APPLICANT/COMPANY	FACILITY NAME	FACILITY LOCATION	
PERSON REPORTING	PHONE NUMBER OF PERSON REPORTING	REPORTED HOW? (e.g. by phone)	
DATE/TIME EVENT WAS NOTICED	DATE/TIME REPORTED	NAME OF DEC STAFF CONTACTED	
VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY			
INCIDENT DETAILS (attach additional sheets, lab reports and photos as necessary)			
ESTIMATED QUANTITY INVOLVED (volume or weight)			
CAUSE OF EVENT (be specific)			
PERMIT CONDITION DEVIATION (Identify each permit condition exceeded during the event).			
Parameter (e.g. BOD, pH)	Permit Limit	Exceedance (sample result)	Sample date
CORRECTIVE ACTIONS Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.			
ENVIRONMENTAL DAMAGE. <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN (If yes, provide details below).			
ACTUAL/POTENTIAL IMPACT ON ENVIRONMENT/PUBLIC HEALTH (describe in detail)			
ACTIONS TAKEN TO REDUCE OR ELIMINATE ACTUAL/POTENTIAL IMPACT ON ENVIRONMENT/PUBLIC HEALTH [(describe in detail) (e.g. Supplied drinking water to nearby well owners and informed well owners not to drink from wells until further notice)].			
COMMENTS			
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.			
NAME:	SIGNATURE:	DATE:	
FORMS MUST BE SENT TO DEC WITHIN 7 DAYS OF THE EVENT.			



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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JUNEAU (907) 465-5300 FAX FORM TO: (907) 451-2187

ATTN: WASTEWATER DISCHARGE PROGRAM

ACCIDENTAL DISCHARGE / SPILL NOTIFICATION

GENERAL INFORMATION				PERMIT # (if any):
APPLICANT/COMPANY		FACILITY NAME		FACILITY LOCATION
PERSON REPORTING		PHONE NUMBER OF PERSON REPORTING	REPORTED HOW? (e.g. by phone)	
DATE/TIME OF SPILL	DATE/TIME REPORTED	NAME OF DEC STAFF CONTACTED		
VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY OF SPILL.				
INCIDENT DETAILS (attach additional sheets, lab reports and photos as necessary)				
PRODUCT SPILLED (e.g. sewage, propylene glycol, etc)			SOURCE OF SPILL	
QUANTITY SPILLED (volume or weight)	QUANTITY CONTAINED	QUANTITY RECOVERED	QUANTITY DISPOSED	
CAUSE OF SPILL (be specific)				
CLEANUP ACTIONS (describe in detail)				
DISPOSAL METHODS AND LOCATION (describe in detail)				
STATUS OF CLEANUP ACTIONS				
ENVIRONMENTAL DAMAGE. <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN If yes, provide details below.		SURFACE AREA AFFECTED (square feet)	SURFACE TYPE (e.g. tundra, land covered with snow, etc)	
ACTUAL/POTENTIAL IMPACT ON ENVIRONMENT/PUBLIC HEALTH (describe in detail)				
COMMENTS				
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.				
NAME: _____		SIGNATURE: _____		DATE: _____
FORMS MUST BE SENT TO DEC WITHIN 7 DAYS OF THE EVENT.				