

COPY

**MONTANA DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

AUTHORIZATION TO DISCHARGE UNDER THE  
MONTANA GROUND WATER POLLUTION CONTROL SYSTEM

In compliance with Montana Code Annotated (MCA) Section 75-5-101 *et seq.*, MCA, and the Administrative Rules of Montana (ARM) 17.30.1001 *et seq.*,

**River Rock County Water and Sewer District**

is authorized to discharge from the **River Rock Subdivision** to its Infiltration/Percolation Beds,  
located in the **SW ¼ of Section 3, Township 1 South, Range 4 East in Gallatin County**,  
to receiving waters, **Class I groundwater**,

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein. Authorization for discharge is limited to the outfall specifically listed in the permit.

This permit shall become effective: **April 1, 2010.**

This permit and the authorization to discharge shall expire at midnight, **March 31, 2015**

FOR THE MONTANA DEPARTMENT OF  
ENVIRONMENTAL QUALITY



Jenny Chambers, Chief  
Water Protection Bureau  
Permitting & Compliance Division

COPY

Issued: February 3, 2010

## TABLE OF CONTENTS

Cover Sheet—Issuance and Expiration Dates

<b>I.</b>	<b>EFFLUENT LIMITATION AND MONITORING REQUIREMENT .....</b>	<b>3</b>
	A. Description of the Discharge Point.....	3
	B. Specific Effluent Limitations.....	3
	C. Specific Ground Water Compliance Limits.....	4
	D. Self-Monitoring Requirements .....	4
	E. Compliance Schedules.....	7
<b>II.</b>	<b>MONITORING, RECORDING AND REPORTING REQUIREMENTS .....</b>	<b>9</b>
	A. Representative Sampling.....	9
	B. Monitoring Procedures.....	9
	C. Penalties for Tampering .....	9
	D. Reporting of Monitoring Results.....	9
	E. Compliance Schedules.....	9
	F. Additional Monitoring by the Permittee.....	10
	G. Records Contents.....	10
	H. Retention of Records .....	10
	I. Twenty-four Hour Notice of Noncompliance Reporting .....	10
	J. Other Noncompliance Reporting.....	11
	K. Inspection and Entry.....	11
<b>III.</b>	<b>COMPLIANCE RESPONSIBILITIES.....</b>	<b>13</b>
	A. Duty to Comply .....	13
	B. Penalties for Violations of Permit Conditions .....	13
	C. Need to Halt or Reduce Activity not a Defense.....	13
	D. Duty to Mitigate .....	13
	E. Proper Operation and Maintenance.....	13
	F. Removed Substances.....	14
	G. Bypass of Treatment Facilities .....	14
	H. Upset Conditions .....	15
<b>IV.</b>	<b>GENERAL REQUIREMENTS .....</b>	<b>16</b>
	A. Planned Changes .....	16
	B. Anticipated Noncompliance .....	16
	C. Permit Actions .....	16
	D. Duty to Reapply.....	16
	E. Duty to Provide Information .....	16
	F. Other Information.....	16
	G. Signatory Requirements .....	17
	H. Penalties for Falsification of Reports .....	18
	I. Availability of Reports .....	18
	J. Oil and Hazardous Substance Liability .....	18
	K. Property or Water Rights.....	18
	L. Severability.....	18
	M. Transfers.....	18
	N. Fees .....	19
	O. Reopener Provisions.....	19
	P. Biosolids.....	20
<b>V.</b>	<b>SPECIAL CONDITIONS.....</b>	<b>21</b>
<b>VI.</b>	<b>DEFINITIONS .....</b>	<b>22</b>

**I. EFFLUENT LIMITATION AND MONITORING REQUIREMENT****A. Description of the Discharge Point**

The authorization to discharge provided under this permit is limited to the outfalls that are specifically designated below as the discharge locations. Discharges at any location not authorized under an MGWPCS permit is a violation of the Montana Water Quality Act and could subject the person(s) responsible for such discharge to penalties under the Act. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge within a reasonable time from first learning of an unauthorized discharge could subject such person to criminal penalties as provided under Section 75-5-632 of the Montana Water Quality Act.

Outfall

Serial NumberDescription of Discharge Point

001

The discharge is from up to eight infiltration/percolation (IP) beds discharging domestic wastewater at a design rate of 374,000 gpd from the River Rock Subdivision. The wastewater will receive treatment in two aerated lagoons prior to discharge to ground water via the infiltration/percolation (IP) beds. Outfall 001 is located at 45° 46' 44" North latitude and 111° 13' 24" West longitude, situated near the northwest corner of the subdivision. The Department has granted a source-specific ground water mixing zone pursuant to [ARM 17.30.518] extending from the source for a distance of 400 feet downgradient in a N29°E direction.

**B. Specific Effluent Limitations**

Effective immediately and lasting through the term of the permit, the quality of effluent discharged by the facility shall, at a minimum, meet the limitations set forth in Table 1 except as described in Part I.E. (compliance schedule) of this permit.

**Table 1. Numeric Effluent Limits for Outfall 001**

Parameter <sup>(1)</sup>	Effluent Limit (units as noted)
CBOD <sub>5</sub> <sup>(2)</sup>	85% removal <sup>(3)</sup>
pH	6.0 – 9.0 s.u.
Total Inorganic Nitrogen (as N) <sup>(4)</sup>	91.1 lb/day <sup>(5)(6)</sup>
Effluent Flow Rate	374,000 gallons per day (maximum flow)

- (1) See definitions in Part VI of this permit.
- (2) CBOD<sub>5</sub> – Five-day carbonaceous biological oxygen demand.
- (3) The arithmetic mean of the values for effluent samples collected in a period of 30 consecutive days shall not exceed 15% of the arithmetic mean of the values for influent samples collected at approximately the same times during the same period (85% removal).
- (4) Total Inorganic Nitrogen (TIN) is the sum of nitrate, nitrite, and ammonia (as N).
- (5) Calculations based on the 30-day average values of flow and concentration.
- (6) Calculations based on the average values of design flow and concentration for the specified time period. Equation is Load (lb/d) = flow (gpd) x concentration (mg/L) x 8.34x10<sup>-6</sup>.

### C. Specific Ground Water Compliance Limits

Effective immediately and lasting through the term of the permit, the ground water shall not exceed the water quality compliance limits at MW-1 and MW-2 shown in Table 2 except as described in Part I.E. (compliance schedule) of this permit.

**Table 2. Ground Water Compliance Limits for Monitoring Wells MW-1 and MW-2**

Parameter	Instantaneous Maximum <sup>1</sup>
Escherichia Coliform (e-coli) Bacteria, organisms/100 ml	Less than 1
Nitrate (as N), mg/L	10.3

- (1) See definitions, Part VI of this permit.

### D. Self-Monitoring Requirements

- As a minimum, upon the effective date of this permit, the constituents in Table 3 shall be monitored at the frequency and with the type of measurement indicated; samples or measurements shall be representative of the volume and nature of the monitored discharge. Effluent monitoring shall be conducted in a location (location C2 as shown in Attachment 2B of the statement of basis) after all treatment in the lagoon cells is complete and prior to discharge in the IP beds.
- The reporting period for the constituents in Table 3 is monthly.

3. An effluent flow meter was installed in April 2008. The flow monitoring device is an ultrasonic echo ranging type open channel flow meter (weir-type).
4. The TN and total phosphorus (TP) loads shall be calculated monthly using the monthly averages for flow and concentration using the following equations:

$$\text{TN (lb/d)} = \text{TN(mg/L)} \times \text{flow (gpd)} \times 8.34 \times 10^{-6}$$

$$\text{TP (lb/d)} = \text{TP(mg/L)} \times \text{flow (gpd)} \times 8.34 \times 10^{-6}$$

**Table 3. Outfall 001 Effluent Parameters Monitored  
(prior to discharge to lagoon cell #3 and/or IP beds)**

Parameter <sup>(1)</sup>	Frequency	Sample Type <sup>(2)</sup>
Effluent Flow Rate, gpd <sup>(3)</sup>	Continuous	Continuous
pH, s.u.	Monthly	Grab
Total Suspended Solids (TSS), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Five-day Carbonaceous Biological Oxygen Demand (CBOD <sub>5</sub> ), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Chloride, mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Escherichia Coliform (e-coli) Bacteria, organisms/100 ml	Monthly	Grab
Total Phosphorus as P <sup>(5)</sup> , mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Nitrate (as N), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Nitrite (as N), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Ammonia (as N), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Total Kjeldahl Nitrogen (as N), mg/L	Monthly	Grab/Composite <sup>(4)</sup>
Total Nitrogen <sup>(6)</sup> , mg/L	Monthly	Calculated
Total Inorganic Nitrogen (as N) <sup>(7),(8)</sup> , mg/L	Monthly	Calculated
Total Phosphorus, lb/day <sup>(8)</sup>	Monthly	Calculated
Total Nitrogen, lb/day <sup>(8)</sup>	Monthly	Calculated
Total Inorganic Nitrogen (as N) <sup>(7),(8)</sup> , lb/day	Monthly	Calculated
Oil & Grease, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Total Phenols, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Arsenic, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Cadmium, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Chromium, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Copper, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>

Lead, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Mercury, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Selenium, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Silver, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>
Zinc, dissolved, mg/L	Semi-annually	Grab/Composite <sup>(4)</sup>

- (1) Laboratory detection limits must be equal to or less than the required reporting value (RRV) in DEQ-7 (February, 2008) for those parameters where an RRV is specified in DEQ-7.
- (2) See definitions in Part VI of this permit.
- (3) To be measured by a recorder or totalizing flow meter.
- (4) Grab samples will be allowed until December 31, 2011. Thereafter, composite samples will be required.
- (5) EPA Method 365.1 or equivalent.
- (6) Total Nitrogen (TN) is the sum of nitrate, nitrite and total kjeldahl nitrogen (as N).
- (7) Total Inorganic Nitrogen (TIN) is the sum of nitrate, nitrite and ammonia (as N).
- (8) See text for calculations.

5. As a minimum, upon the effective date of this permit, the constituents in Table 4 shall be monitored at the frequency and with the type of measurement indicated; samples or measurements shall be representative of the volume and nature of the monitored influent wastewater. The reporting period for the constituents in Table 4 is monthly.

**Table 4. Outfall 001 Influent Parameters Monitored**

Parameter	Frequency	Sample Type <sup>(1)</sup>
Five-day Carbonaceous Biological Oxygen Demand (CBOD <sub>5</sub> ), mg/L	Monthly	Composite

- (1) See definitions in Part VI. of the permit

6. As a minimum, upon the effective date of this permit, the constituents in Table 5 shall be monitored at the frequency and with the type of measurement indicated; samples or measurements shall be representative of the ground water from MW-1, MW-2, MW-3 and MW-4. The reporting period for the constituents in Table 5 is monthly for MW-1 and MW-2. The reporting period for the constituents in Table 5 is quarterly for MW-3 and MW-4.

**Table 5. Ground Water Monitoring Parameters for Monitoring Wells MW-1, MW-2, MW-3 and MW-4**

Parameter	Frequency	Sample Type <sup>(1)</sup>
Static Water Level (SWL) (feet below top of casing)	Monthly/Quarterly <sup>(2)</sup>	Instantaneous
Escherichia Coliform (e-coli) Bacteria, organisms/100 ml	Monthly/Quarterly <sup>(2)</sup>	Grab
Nitrate (as N), mg/L	Monthly/Quarterly <sup>(2)</sup>	Grab
Ammonia (as N), mg/L	Monthly/Quarterly <sup>(2)</sup>	Grab
Chloride, mg/L	Monthly/Quarterly <sup>(2)</sup>	Grab

(1) See definitions, Part VI of this permit.

(2) Monthly for MW-1 and MW-2. Quarterly for MW-3 and MW-4

6. MW-1 and MW-2 were constructed in 1999 for monitoring the shallow ground water immediately downgradient of outfall 001. MW-3 and W-4 were constructed in 1999 and 2008, respectively, for monitoring the shallow ground water upgradient of outfall 001.
7. Within 60 days of the effective date of this permit the permittee shall submit a copy of the standard operating procedures proposed for monitoring MW-1, MW-2, MW-3 and MW-4. These procedures should address at a minimum, well purging equipment and procedures, sample collection equipment and procedures, equipment decontamination procedures, and sample storage and transportation procedures.

#### **E. Compliance Schedule**

The following compliance schedules in Table 6 apply to this facility. These compliance schedules are in place to protect the quality of the ground water beneath and downgradient of the wastewater discharge. The permittee must provide annual updates to the Department demonstrating that they are performing adequately to meet the compliance schedule deadlines. The annual updates to the DEQ will be due on December 31 of 2010, 2011, and 2012. Upon completion of the compliance schedule the specific parameter in question shall meet all the applicable effluent limits and/or ground water compliance limits set forth in this permit. As long as the permittee is working towards and meeting the compliance schedule requirements with reasonable due diligence and to the satisfaction of the Department, the Department will not issue violation notices for exceeding the CBOD<sub>5</sub> and the Total Inorganic Nitrogen effluent limits in Table 1 of this permit, nor for failing to meet the E-coli bacteria or nitrate ground water compliance limits in Table 2 of this permit.

**Table 6. Compliance Schedule**

<b>Parameter</b>	<b>Start of Compliance Schedule</b>	<b>Date to secure funding and submit report to DEQ outlining funding sources</b>	<b>Date to submit complete plans and specifications to DEQ</b>	<b>Date to have plans and specifications approved by DEQ</b>	<b>Date to complete construction and full operation of modifications</b>
CBOD <sub>5</sub>	Effective date of permit	August 15, 2011	July 15, 2012	December 1, 2012	October 1, 2013
Total Inorganic Nitrogen	Effective date of permit	August 15, 2011	July 15, 2012	December 1, 2012	October 1, 2013
E-Coli Bacteria	Effective date of permit	August 15, 2011	July 15, 2012	December 1, 2012	October 1, 2013

## II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

### A. Representative Sampling

Effluent samples taken in compliance with the monitoring requirements established under Part I shall be representative of the volume and nature of the monitored medium.

### B. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under Part 136, Title 40 of the Code of Federal Regulations, unless other test procedures have been specified in this permit. All flow-measuring and flow-recording devices used in obtaining data submitted in self-monitoring reports must indicate values within 10 percent of the actual flow being measured. Flow meter calibration must be done on a yearly basis and documented for the record.

### C. Penalties for Tampering

The Montana Water Quality Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$25,000, or by imprisonment for not more than six months, or by both.

### D. Reporting of Monitoring Results

Self-monitoring reports shall be submitted to the Department monthly. Monitoring results obtained during the previous reporting period shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. Following the issuance of this permit, if no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the Signatory Requirements (Part IV, Section G) and submitted to the Department at the following address:

Montana Department of Environmental Quality  
Water Protection Bureau  
PO Box 200901  
Helena, Montana 59620  
Phone: (406) 444-3080

All reports, notifications and inquires regarding compliance with this permit shall be submitted to the Department at the above address.

### E. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no

later than 14 days following each schedule date.

**F. Additional Monitoring by the Permittee**

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

**G. Records Contents**

Records of monitoring information shall include:

1. The dates, exact place, and time of sampling or measurements;
2. The initials or name(s) of the individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The time analyses were initiated;
5. The initials or name(s) of individual(s) who performed the analyses;
6. References and written procedures, when available, for the analytical techniques or methods used; and,
7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

**H. Retention of Records**

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time. Data collected on site, copies of monitoring reports, and a copy of this MGWPCS permit must be maintained on site during the duration of activity at the permitted location.

**I. Twenty-four Hour Notice of Noncompliance Reporting**

The permittee shall report serious incidents of noncompliance as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of the circumstances. The report shall be made to the Water Protection Bureau at (406) 444-3080 or the Office of Disaster and Emergency Services at (406) 841-3911. The following examples are considered serious incidents:

1. Any noncompliance which may seriously endanger health or the environment;
2. Any unanticipated bypass which exceeds any effluent limitation in the permit (See

Part IV.G of this permit, "Bypass of Treatment Facilities");

3. Any upset which exceeds any effluent limitation in the permit (See Part IV.H of this permit, "Upset Conditions").
4. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
  - a. A description of the noncompliance and its cause;
  - b. The period of noncompliance, including exact dates and times;
  - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,
  - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
5. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Protection Bureau, by phone, at (406) 444-3080.
6. Reports shall be submitted to the addresses in Part II.D of this permit, "Reporting of Monitoring Results".

**J. Other Noncompliance Reporting**

Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for Part II.D of this permit are submitted. The reports shall contain the information listed in Part II.I.4 of this permit.

**K. Inspection and Entry**

The permittee shall allow the head of the Department or the Director or an authorized representative thereof, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
4. Sample or monitor at reasonable times, for the purpose of assuring permits compliance, any substances or parameters at any location.

### III. COMPLIANCE RESPONSIBILITIES

#### **A. Duty to Comply**

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give the Department and the Director advanced notice of any planned changes at the permitted facility or of an activity which may result in permit noncompliance.

#### **B. Penalties for Violations of Permit Conditions**

The Montana Water Quality Act provides that any person who violates a permit condition of the Act is subject to civil or criminal penalties not to exceed \$25,000 per day or one year in prison, or both, for the first conviction, and \$50,000 per day of violation or by imprisonment for not more than two years, or both, for subsequent convictions. MCA 75-5-611(a) also provides for administrative penalties not to exceed \$10,000 for each day of violation and up to a maximum not to exceed \$100,000 for any related series of violations. Except as provided in permit conditions on Part III.G of this permit, "Bypass of Treatment Facilities" and Part III.H of this permit, "Upset Conditions", nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

#### **C. Need to Halt or Reduce Activity not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#### **D. Duty to Mitigate**

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

#### **E. Proper Operation and Maintenance**

The permittee shall 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. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. However, the permittee shall operate, as a minimum, one complete set of each main line unit treatment process whether or not this process is needed to achieve permit effluent compliance.

**F. Removed Substances**

Collected screenings, grit, solids, sludges, or other pollutants removed in the course of treatment shall be disposed in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge shall not be directly blended with or enter either the final plant discharge and/or waters of the United States. Any sludges removed from the facility shall be disposed of in accordance with 40 CFR 503, 258 or other applicable rule. EPA and MDEQ shall be notified at least 180 days prior to such disposal taking place.

**G. Bypass of Treatment Facilities**

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.G.2 and III.G.3 of this permit.
2. Notice:
  - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.
  - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part II.I of this permit, "Twenty-four Hour Reporting".
3. Prohibition of Bypass.
  - a. Bypass is prohibited and the Department may take enforcement action against a permittee for a bypass, unless:
    - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

- (3) The permittee submitted notices as required under Part III.G.2 of this permit.
- b. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part III.G.3.a of this permit.

## **H. Upset Conditions**

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with operational based permit effluent limitations if the requirements of Part IV.H.2 of this permit are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review (i.e., Permittees will have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with operational-based permit effluent limitations).
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
  - b. The permitted facility was at the time being properly operated;
  - c. The permittee submitted notice of the upset as required under Part II.I of this permit, "Twenty-four Hour Notice of Noncompliance Reporting"; and,
  - d. The permittee complied with any remedial measures required under Part IV.D of this permit, "Duty to Mitigate".
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

#### IV. GENERAL REQUIREMENTS

##### **A. Planned Changes**

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

1. The alteration or addition could significantly change the nature or increase the quantity of pollutant discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit; or,
2. There are any planned substantial changes to the existing sewage sludge management practices of storage and disposal. The permittee shall give the Department notice of any planned changes at least 180 days prior to their implementation.

##### **B. Anticipated Noncompliance**

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.

##### **C. Permit Actions**

This permit may be revoked, modified and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

##### **D. Duty to Reapply**

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application must be submitted at least 180 days before the expiration date of this permit.

##### **E. Duty to Provide Information**

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for revoking, modifying and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

##### **F. Other Information**

When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Department, it shall promptly submit such facts or information with a narrative explanation

of the circumstances of the omission or incorrect submittal and why they weren't supplied earlier.

**G. Signatory Requirements**

All applications, reports or information submitted to the Department shall be signed and certified.

1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
2. All reports required by the permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is considered a duly authorized representative only if:
  - a. The authorization is made in writing by a person described above and submitted to the Department; and,
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
3. Changes to authorization. If an authorization under Part IV.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part IV.G.2 of this permit must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and

complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**H. Penalties for Falsification of Reports**

The Montana Water Quality Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$25,000 per violation, or by imprisonment for not more than six months per violation, or by both.

**I. Availability of Reports**

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by the Clean Water Act, permit applications, permits and effluent data shall not be considered confidential.

**J. Oil and Hazardous Substance Liability**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

**K. Property or Water Rights**

The issuance of this permit does not convey any property or water rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

**L. Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

**M. Transfers**

This permit may be transferred to a new permittee if:

1. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date;

2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them;
3. The Department does not notify the existing permittee and the proposed new permittee of intent to revoke or modify and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part IV.M.2 of this permit; and
4. Required annual, application, and transfer fees have been paid.

**N. Fees**

The permittee is required to submit payment of an annual fee as set forth in ARM 17.30.201. If the permittee fails to pay the annual fee within 90 days after the due date for the payment, the Department may:

1. Impose an additional assessment consisting of 15% of the fee plus interest on the required fee computed at the rate established under 15-1-216(3), MCA, or
2. Suspend the processing of the application for a permit or authorization or, if the nonpayment involves an annual permit fee, suspend the permit, certificate or authorization for which the fee is required. The Department may lift suspension at any time up to one year after the suspension occurs if the holder has paid all outstanding fees, including all penalties, assessments and interest imposed under this sub-section. Suspensions are limited to one year, after which the permit will be terminated.

**O. Reopener Provisions**

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary), or other appropriate requirements if one or more of the following events occurs:

1. Water Quality Standards: The water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
2. Water Quality Standards are Exceeded: If it is found that water quality standards in the receiving waters, excluding mixing zones as designated by ARM 17.30.501-17.30-518, are exceeded for parameters included in the permit, the department may modify the effluent limits or water management plan.

3. TMDL or Wasteload Allocation: TMDL requirements or a wasteload allocation is developed and approved by the Department and/or EPA for incorporation in this permit.
4. Water Quality Management Plan: A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit.
5. Toxic Pollutants: A toxic standard or prohibition is established under Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit.

**P. Biosolids**

Sewage sludge (which is not landfilled in accordance with solid waste regulation at 40 CFR Part 258) must meet all applicable requirements for disposing of sludge through land application or surface disposal site at 40 CFR Part 503. The regulations are administered by the U.S. Environmental Protection Agency.

For land application, the regulations require demonstration of an approvable land application site; compliance with pollutant limits for metals and fecal coliform; treatment for pathogens; treatment for vector attraction reduction; agronomic application rates; site restriction on public access, animal grazing, and crop harvesting; monitoring; recording keeping; and reporting.

For surface disposal, the regulations require an approvable surface disposal site; compliance with pollutant limits for metals; protection of groundwater from nitrate contamination; treatment for pathogens; treatment for vector attraction reduction; monitoring; recordkeeping; and reporting.

Implement other measures as determined by the Department, which may include invoking the permit condition set forth in Part IV. O., "Reopener Provisions".

**V. SPECIAL CONDITIONS**

There are no special conditions for this permit.

## VI. DEFINITIONS

1. **“30-day (and monthly) average,”** other than for fecal coliform bacteria, means the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for fecal coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data.
2. **“90-day (and quarterly) average,”** other than for fecal coliform bacteria means the arithmetic average of all samples collected during a consecutive 90-day period or 3 calendar months, whichever is applicable. Geometric means shall be calculated for fecal coliform bacteria. The calendar quarter shall be used for purposes of reporting self-monitoring data.
3. **“30-day Average Load”** means the arithmetic mean of all 30-day or monthly average loads reported during a calendar quarter for a monitored parameter.
4. **“7-day Average (and weekly) average”** means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.
5. **“BOD<sub>5</sub>”** means a measurement of the amount of oxygen utilized by the decomposition of organic material, over a five-day period of time in a wastewater sample; it is used as a measurement of the readily decomposable organic content of wastewater.
6. **“Bypass”** means the intentional diversion of waste streams from any portion of a treatment or storage facility.
7. **“CBOD<sub>5</sub>”** means the five day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. **“Composite sample”** means a sample composed of two or more discrete samples and shall be flow proportioned. The aggregate samples will reflect the average water quality covering the compositing or sample period. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sampled shall not be less than six (6) hours nor more that 24 hours. Acceptable methods for preparation of composite samples are as follows:
  - a. Constant time internal between samples, sample volume proportional to flow rate at time of sampling;
  - b. Constant time internal between samples, sample volume proportional to

- total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
- c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,
  - d. Continuous collections of sample, with sample collection rate proportional to flow rate.
9. "**Continuous**" means the measurement of effluent flow which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance process changes, or other similar activities.
  10. "**Daily Maximum Limit**" means the maximum allowable discharge of a pollutant during a calendar day. Expressed as units of mass, the daily discharge is cumulative mass discharged over the course of the day. Expressed as a concentration, it is the arithmetic average of all measurements taken that day.
  11. "**Department**" means the Montana Department of Environmental Quality.
  12. "**Grab**" sample, for monitoring requirements, means a single "dip and take" sample collected at a representative point in the discharge stream or monitoring well.
  13. "**Instantaneous**" measurement, for monitoring requirements, means a single reading, observation, or measurement.
  14. "**Load limits**" means mass-based discharge limits expressed in units such as lb/day
  15. "**Mixing zone**" means a limited area of a surface water body or aquifer where initial dilution of a discharge takes place and where water quality changes may occur. Also recognized as an area where certain water quality standards may be exceeded.
  16. "**Nondegradation**" means the prevention of a significant change in water quality that lowers the quality of high-quality water for one or more parameters. Also, the prohibition of any increase in discharge that exceeds the limits established under or determined from a permit or approval issued by the Department prior to April 29, 1993.
  17. "**Semi-Annual Average**" means the arithmetic average of all samples collected during a consecutive 180-day period or 6 calendar months, whichever is applicable.
  18. "**Severe property damage**" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or

substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

19. **“TMDL”** means the total maximum daily load of a parameter, representing the estimated assimilative capacity for a water body before other designated uses are adversely affected. Mathematically, it is the sum of waste load allocations for point sources, load allocations for non-point and natural background sources, and a margin of safety.
20. **“TSS”** means total suspended solids, which is a measure of the filterable solids present in a sample, as determined by the method specified in 40 CFR part 136.