

AUTHORIZATION TO DISCHARGE TREATED WASTEWATER EFFLUENT UNDER THE GARFIELD COUNTY BOARD OF HEALTH INDIVIDUAL SEWAGE DISPOSAL SYSTEMS REGULATIONS

**PERMIT CONDITIONS FOR  
DOMESTIC WASTEWATER TREATMENT SYSTEMS  
THAT DISCHARGE TREATED EFFLUENT TO THE GROUND SURFACE OR ATMOSPHERE**

In accordance with the Garfield County Board of Health Individual Sewage Disposal Systems (ISDS) Regulations and in compliance with Section 25-10-104(2), (3), and (4) C.R.S., these permit conditions shall govern all aspects of permits, performance, location, construction, alteration, installation, and use of individual sewage disposal systems of less than 2,000 gallon per day design capacity that will reuse treated effluent through applications that discharge treated effluent to the ground surface or atmosphere.

This ISDS permit specifically authorizes the permittee to discharge treated domestic wastewater in accordance with permit requirements and conditions set forth in this document. All discharges authorized herein shall be consistent with the terms and conditions of the permit.

**A. GENERAL:**

Those systems which discharge effluent directly to the ground surface or atmosphere and employ aerobic or other secondary wastewater treatment principles may be permitted by Garfield County only if designed and stamped by a registered professional engineer. All system components must meet or exceed the minimum component design criteria as outlined in Section VIII.A of the Garfield County ISDS Regulations.

**There shall be no discharge of treated effluent to waters of the State of Colorado without an appropriate discharge permit from the WQCD. Treated effluent may not be discharged in a manner which allows drainage or discharge off of the property of origin. The permit is issued only to the owner of the wastewater treatment system. If the owner of the wastewater treatment system is not the owner of the land to which the effluent will be applied, the permit application must be accompanied by a notarized letter from the landowner indicating the landowner's approval for discharge of treated domestic wastewater effluent to the ground surface or to the atmosphere above the subject property.** Surface applications of treated effluent may only be at a rate that prevents ponding and runoff. This permit does not allow the use of treated effluent for any industrial process or construction activity without the written approval of appropriate governmental agency responsible for allowing the use of treated effluent for the requested industrial process or construction activity.

**B. MINIMUM EFFLUENT QUALITY REQUIREMENTS**

- Effluent discharged into the atmosphere or upon the ground surface in areas which the possibly exists for occasional direct human contact with the discharged effluent must meet the following effluent limits and the discharge areas must be fenced off.**

<i>Parameter</i>	<i>Limits Applied at point of sampling</i>
BOD <sub>5</sub> (mg/l)	Twenty (20) when averaged over any three (3) consecutive samples
TSS, mg/l	Forty (40) when averaged over any three (3) consecutive samples
Fecal Coliform (# 100 ml)	Twenty-five (25) when averaged over any five (5) consecutive samples and no single sample result for fecal Coliform shall exceed 200 per 100 ml

- Effluent discharged into the atmosphere or upon the ground surface in areas so restricted as to protect against the likelihood of direct human contact with the discharged effluent must meet the following minimum effluent limits. Applicant must provide appropriate and adequate information with the ISDS permit application as to all design considerations that will be taken to avoid human contact with effluent.**

<i>Parameter</i>	<i>Limits Applied at point of sampling</i>
BOD <sub>5</sub> (mg/l)	Twenty (20) when averaged over any three (3) consecutive samples
TSS, mg/l	Forty (40) when averaged over any three (3) consecutive samples
Fecal Coliform (# 100 ml)	Five-hundred (500) when averaged over any five (5) consecutive samples and no single sample result for fecal Coliform shall exceed 5000 per 100 ml

**C. SAMPLING COMPLIANCE**

To determine compliance with standards contained in Section B above, samples shall be taken at least once per week but no more frequently than once per day. An independent third party (Colorado Class C or higher Certified Wastewater Operator, Colorado

Licensed Professional Engineer or an Environmental Consultant with wastewater treatment experience) that is knowledgeable in proper sampling techniques and analytical methods must conduct collection and analysis of effluent samples. Results of any analysis must be submitted to the Garfield County ISDS Program representative within 5 working days after the sample analysis is complete. Exceedence of effluent discharge limits requires permittee to immediately cease discharge of effluent to the ground surface or other reuse applications until effluent limits are again met as confirmed by the local ISDS Program representative. During periods of no discharge due to exceedance of effluent limits or other reasons, the effluent must be either contained in onsite tankage for recirculation through the treatment system or removed by the contracted systems cleaner and disposed of at an approved septage disposal facility.

**D. METHODS OF ANALYSIS – SAMPLING POINTS:**

All effluent samples shall be analyzed by a laboratory certified by the State of Colorado to conduct such analyses, in accordance with the methods prescribed in the most recent edition of “Standard Methods for Examination of Water and Wastewater” (American Public Health Association). The point of sampling shall be a location at which the treated effluent is representative of the final discharge from the system.

**E. RECORDS**

The permittee shall establish and maintain records. Records must be submitted to the regulatory authority a minimum of monthly or as otherwise directed by the regulatory authority. In addition, within 24 hours of discovery, the permittee shall report to the regulatory authority, any violation of the permit conditions. Required records shall include, but not be limited to, the following:

- The date, type, exact place, and time of sampling or measurements;
- The individual(s) who performed the sampling or measurements;
- The date(s) the analyses were performed;
- The individual(s) who performed the analyses;
- The analytical techniques or methods used;
- The results of such analyses;
- Any system repair or maintenance performed including the reason for said repair or maintenance;
- Weekly accounting of how the treated effluent was used (e.g. irrigation, dust mitigation on-site, area dust mitigation).

**F. RELOCATION OF SYSTEM, CHANGE OF EFFLUENT USE**

The permittee shall inform the Garfield County ISDS Program in writing of any intent to construct, install, or alter any process, facility, or activity that is likely to result in a new or altered discharge either in terms of location or effluent quality no less than 5 working days of the planned move or the occurrence of the new or altered discharge, and shall furnish the Garfield County ISDS Program such plans and specifications which the Garfield County ISDS Program deems reasonably necessary to evaluate the effect on the proposed discharge. Relocation of the treatment facility constitutes a new installation and thus requires a new permit. A permit application, site plan of the new location and any associated fees must accompany notification of the planned relocation or modification of the system.

**G. REMOVED SUBSTANCES**

Solids, sludge’s, or other pollutants removed in the course of treatment or control of wastewaters shall be transported and disposed of in a manner such as to prevent any pollutant from such materials from discharging to the ground surface or entering waters of the State. For all domestic wastewater treatment works, the permittee shall dispose of sludge in accordance with State (Regulation No. 64) and Federal (Section 405(d) of the Act) regulations. The Permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting the public health or environment. Permittee shall maintain a copy of a service contract and any pumping and disposal records from the contracted systems cleaner and submit such information when requested by the Garfield County ISDS Program.

**H. PERMIT VIOLATIONS**

Failure to comply with any terms and/or conditions of this permit shall be a violation of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Permit violations will be subject to enforcement provisions as outlined in Section IV.H, IV.I and IV.N of the Garfield County ISDS Regulations”. Violations of the permit are the sole responsibility of the Permittee.

**I. ACCESS TO THE SITE**

For the purpose of inspection and enforcing applicable rules, regulations, terms and conditions of any permit issued, the local health officer or his/her designated agent is authorized to enter upon private property at reasonable times and upon reasonable notice for the purpose of determining whether or not operating sewage treatment systems are functioning in compliance with this permit.

**J. OPERATOR REQUIREMENTS**

To ensure effective operation and maintenance of the wastewater treatment system the Permittee is encouraged but not required to provide a Colorado Class C Certified Wastewater Operator for each permitted wastewater system utilizing reuse of the treated effluent. Any operator of a permitted system, whether certified or not, shall be thoroughly trained by a manufacturer's representative in the operation and maintenance of any system of which they are responsible for overseeing and shall insure the efficient operation of all mechanical and electrical component parts prior to and during continued use.

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