



PUBLIC NOTICE NO. MT-21-05
April 5, 2021

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to state the Department's intention to issue wastewater discharge permits to the facilities listed in this notice. These permits are issued by the Department under the authority of 75-5-402, Montana Code Annotated (MCA); the Administrative Rules of Montana (ARM) 17.30.1301 *et seq.*, Montana Pollutant Discharge Elimination System (MPDES); ARM 17.30.1001 *et seq.*, Montana Ground Water Pollution Control System (MGWPCS); and Sections 402 and 303 of the Federal Clean Water Act. The Water Protection Bureau has prepared draft permits for the facilities listed below. Copies of the draft permits, fact sheets, and environmental assessments are available upon request from the Water Protection Bureau or on the Department's website www.deq.mt.gov.

APPLICANT INFORMATION

APPLICANT NAME:	Shepherd School
FACILITY NAME:	Shepherd School Wastewater System
FACILITY LOCATION:	N half of NE quarter of Section 10, T2N, R27E, Yellowstone County, Latitude: 45.94139° Longitude: -108.34360°
RECEIVING WATER:	Outfall 001 – Class I Ground Water
PERMIT NUMBER:	MTX000265

A determination has been made by DEQ to issue a Montana Ground Water Pollution Control System (MGWPCS) permit, MTX000265, to Shepherd School for the Shepherd School Wastewater System. This permitting action authorizes discharge of treated wastewater to ground water. The scope of this permitting action is for the construction, operation, and maintenance of a wastewater treatment and disposal system.

The wastewater system will provide Level 2 treatment with an Advantex system which is a recirculating media trickling filter. A grease interceptor is proposed for removal of fats, oils, and grease from the kitchen waste stream. Primary treatment will occur in a septic tank with effluent filter based on Orenco

sizing recommendations. A pre-anoxic/equalization tank is located after the septic tank. The equalization portion of the tank will be set above the pre-anoxic volume and be discharged via a time-based dosing schedule to attenuate flow over a 6-day period. After flow equalization, a pre-aeration stage is recommended by Orenco ahead of the Advantex treatment. The pre-aeration stage consists of an aeration compartment and a clarifier compartment. After the pre-aeration stage, the effluent is treated by two Orenco Advantex AX-100 pods. The pressure-dosed drainfield is divided into 15 pressure zones via three 5-way distributing valves. Each pressure zone has 5 laterals, 3-foot wide, and 100 feet long resulting in an absorption area of 1,500 ft² (22,500 ft² total). DEQ recognizes that the system utilizes a Level 2 Treatment that may provide a higher level of treatment than a standard system.

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APPLICANT INFORMATION

APPLICANT NAME:	Town of Manhattan 120 West Main Street PO Box 96 Manhattan, MT 59741
FACILITY NAME:	Manhattan Water Reclamation Facility
FACILITY LOCATION:	250 Bettingill Rd, Manhattan, MT
RECEIVING WATER:	Dita Ditch
PERMIT NUMBER:	MT0021857

This permit is a renewal of a Montana Pollutant Discharge Elimination System (MPDES) permit for discharge of treated wastewater to Dita Ditch. The Town of Manhattan operates a 2008-built biological nutrient removal (BNR) plant using a hybrid activated sludge-fixed film system with an average daily design flow of 0.37 million gallons per day (mgd).

The proposed permit renewal includes technology-based effluent limits for five-day biochemical oxygen demand (BOD₅), Total Suspended Solids (TSS), and pH; additional effluent limits for *E. coli* bacteria, nitrate + nitrite, oil & grease and ammonia; and establishes seasonal load limits for total nitrogen and total phosphorus with additional nutrient optimization requirements.

The proposed permit requires periodic self-monitoring and reporting of discharge and ambient quality.

PUBLIC COMMENT

Public comments are invited **ANYTIME PRIOR TO CLOSE OF BUSINESS MAY 5, 2021**. Comments may be directed to the DEQ Water Quality Division, Water Protection Bureau, PO Box 200901, Helena, MT 59620. All comments received or postmarked **PRIOR TO CLOSE OF BUSINESS MAY 5, 2021** will be considered in the formulation of final determinations to be imposed on the permits. If you wish to comment electronically, you may e-mail the Department at DEQWPBPublicComments@mt.gov

During the public comment period provided by the notice, the Department will accept requests for a public hearing. A request for a public hearing must be in writing and must state the nature of the issue proposed to be raised in the hearing (ARM 17.30.1373 and 17.30.1024).

The Department will respond to all substantive comments and issue a final decision within sixty days of this notice or as soon as possible thereafter. Additional information may be obtained upon request by calling (406) 444-5546 or by writing to the aforementioned address. The complete administrative record, including permit application and other pertinent information, is maintained at the Water Protection Bureau office in Helena and is available for review during business hours.

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