Collection System Facilities

Suggested Study Material

Need to Know Topics

Minnesota Pollution Control Agency

Minnesota Pollution Control Agency
Program & Training Coordination Unit
Customer, Employee & Agency Development Section
Technology, Education & Assistance Division
520 Lafayette Road North
St. Paul, Minnesota 55155

Website: www.pca.state.mn.us

Contact: Dianne Navratil
(651) 296-9269 or (800) 657-3864
Basic Wastewater Collection Systems Manual - Rick Arbour & Associates,  
4467 Oak Chase Lane, Eagan, MN, 55123 - (612)686-5516

Operation and Maintenance of Wastewater Collection Systems - Office of Water Programs,  
California State University, Sacramento, 6000 J Street, Sacramento, CA, 95819-6025 -  
(916)278-6142

Recommended Standards for Wastewater Facilities - Health Education Services, P.O. Box 7126,  
Albany, NY, 12224 - (518)439-7286

Temporary Traffic Control Zone Layouts Manual - Mn/DOT Map Sales Office, Room G-19  
Transportation Building, 395 John Ireland Boulevard, St. Paul, MN, 55155 - (612)296-2216

Collection System Math Workbook - Minnesota Pollution Control Agency, Training Unit, Water  
Quality Division, 520 Lafayette Road, St. Paul, MN, 55155-4194 - (612) 296-7251

Wastewater Treatment Technology Manual - Minnesota Pollution Control Agency, Training  
Unit, Water Quality Division, 520 Lafayette Road, St. Paul, MN, 55155-4194 - (612) 296-7251

Note: Specific study materials for each class of examination are listed with the need-to-know  
criteria.
CLASS S-A

1. Gravity system
   1.1 Maintenance
   1.2 Troubleshooting
   1.3 Repair
   1.4 Monitoring
   1.5 Recordkeeping

2. Lift stations
   2.1 Fundamentals
   2.2 Maintenance
   2.3 Troubleshooting
   2.4 Repair
   2.5 Monitoring and recordkeeping

3. New construction
   3.1 Fundamentals
   3.2 Operation and maintenance
   3.3 Troubleshooting

4. Administration
   4.1 Fundamentals
   4.2 Operation and maintenance
   4.3 Troubleshooting
   4.4 Monitoring and recordkeeping

5. Wastewater/general

6. Safety

7. Math
   7.1 Grade/slope
   7.2 Budgeting
   7.3 Detention time

Suggested study materials include:

- Basic Wastewater Collection Systems Manual
- Collection System Math Workbook
- Operation and Maintenance of Wastewater Collection Systems, Volumes 1 and 2
- Recommended Standards for Wastewater Facilities (10-State Standards)
CLASS S-B

1. Gravity systems
   1.1 Maintenance
   1.2 Troubleshooting
   1.3 Repair
   1.4 Monitoring
   1.5 Recordkeeping
2. Lift stations
   2.1 Fundamentals
   2.2 Maintenance
   2.3 Troubleshooting
   2.4 Repair
   2.5 Monitoring and recordkeeping
3. New construction
   3.1 Fundamentals
   3.2 Operation and maintenance
   3.3 Troubleshooting
4. Administration
   4.1 Fundamentals
   4.2 Operation and maintenance
   4.3 Troubleshooting
   4.4 Monitoring and recordkeeping
5. Wastewater/general
6. Safety
7. Math
   7.1 Pumping rates/pump calibration
   7.2 Flow rates
   7.3 Velocities
   7.4 Grade/slope
   7.5 Budgeting
   7.6 Detention time

Suggested study materials include:

- Basic Wastewater Collection Systems Manual
- Collection System Math Workbook
- Operation and Maintenance of Wastewater Collection Systems, Volumes 1 and 2
- Recommended Standards for Wastewater Facilities (10-State Standards)
1. Gravity systems
   1.1 Maintenance
   1.2 Troubleshooting
   1.3 Repair
   1.4 Monitoring
   1.5 Recordkeeping

2. Lift stations
   2.1 Fundamentals
   2.2 Maintenance
   2.3 Troubleshooting
   2.4 Monitoring and recordkeeping

3. New construction
   3.1 Fundamentals
   3.2 Operation and maintenance
   3.3 Troubleshooting

4. Administration
   4.1 Fundamentals
   4.2 Troubleshooting
   4.3 Monitoring and recordkeeping

5. Wastewater/general

6. Safety

7. Math
   7.1 Pumping rates/pump calibration
   7.2 Flow rates
   7.3 Velocities
   7.4 Grade/slope
   7.5 Detention time

Suggested study materials include:

- Basic Wastewater Collection Systems Manual
- Collection System Math Workbook
- Operation and Maintenance of Wastewater Collection Systems, Volumes 1 and 2
- Temporary Traffic Control Zone Layouts Field Manual
CLASS S-D

1. Gravity system
   1.1 Fundamentals
   1.2 Maintenance
   1.3 Troubleshooting
   1.4 Repair
   1.5 Monitoring
   1.6 Recordkeeping

2. Lift station
   2.1 Fundamentals
   2.2 Maintenance
   2.3 Troubleshooting
   2.4 Monitoring and recordkeeping

3. New construction
   3.1 Fundamentals
   3.2 Troubleshooting

4. Administration
   4.1 Fundamentals
   4.2 Monitoring and recordkeeping

5. Wastewater/general

6. Safety

7. Math
   7.1 Volume
   7.2 Areas
   7.3 Slope
   7.4 Detention time

Suggested study materials include:

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- Collection System Math Workbook
- Operation and Maintenance of Wastewater Collection Systems, Volumes 1 and 2
- Temporary Traffic Control Zone Layouts Field Manual