

# Unit 4.4 Co-treatment of FS in WWTPs

## 1. INTRODUCTION

This Unit corresponds with Chapter 9 of the FSM book. This chapter presents information on the co-treatment of FS with municipal wastewater. The possibilities discussed include activated sludge, anaerobic digestion and anaerobic ponds. This chapter presents information on the extreme care that must be exercised when considering combined FS and wastewater treatment, as the system can be overloaded and fail even when relatively small volumes of FS are added to the wastewater treatment plant.

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## 2. LEARNING OBJECTIVES

The learning objectives for Unit 4.4 Cotreatment of FS in municipal wastewater treatment plants are to:

- Understand the biodegradability and fractionation of organic matter and nitrogen compounds in faecal sludge.
- Appreciate the principles, key considerations and potential impacts of co-treatment of faecal sludge in sewer-based wastewater treatment systems.
- Determine volumes of faecal sludge that can be effectively co-treated in wastewater treatment plants.
- Understand the potential negative ramifications of co-treating faecal sludge in sewer-based wastewater treatment systems.

## 3. THINGS TO DO; PLACES TO GO

In order to complete this Unit successfully, please do the following:

- Watch the key note speech of Unit 4.4
- Go through the powerpoint presentation of Unit 4.4
- Read Chapter 9 of the FSM book
- Check the Course page for any recommended reading materials or web pages
- Check the assignment list