

## SYSTEM CASE STUDY: Letterkenny U. S. Army Depot – Pennsylvania



### FAST FACTS

#### **Project:**

- ✓ bioFAS™ MBBR System for Heavy Equipment Wash Water

#### **Industry:**

- ✓ Institutional

#### **Application:**

- ✓ Biochemical Oxygen Demand (BOD) Removal

### **bioFAS™ MBBR System Benefits/Highlights:**

- ◆ Efficient reduction of BOD
- ◆ Ideal for high and varying loads
- ◆ Cost-effective
- ◆ Compact footprint & modular
- ◆ Easy to operate & maintain

#### **Problem:**

The existing trickling filter was not capable of treating the organic loading associated with the heavy vehicle wash operation. As a result, the system was struggling to consistently meet the NPDES Discharge Permit requirements.

#### **Solution:**

bioprocessH2O supplied a two-stage bioFAS™ MBBR biological treatment process to reduce BOD at varying flow and organic loading rates.

#### **Status/Results:**

The bioFAS™ MBBR System effectively removes BOD by >90% and easily meets the NPDES Discharge Permit Requirements. The system is able to operate with minimal operator attention and oversight. Additional details can be provided by bioprocessH2O.

#### **System Design Criteria:**

Parameter	Influent	Effluent
Wastewater Flow	288,000 GPD	-
BOD	310 mg/L	<20 mg/L

**Contact bioprocessH2O today!**

