**DOMESTIC WASTEWATER**

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application*.

VAM USA LLC (CN 603275793 ) operates VAM USA FACILITY RN 102186194. a tubular good threading facility. The facility is located 19210 E Hardy Rd, in Houston, Harris County, Texas 77073.

Renewal to discharge 10,000 gallons per day of treated domestic wastewater. Discharge will be through Outfall 001 located on the east side of the facility.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated byan activated sludge unit operated in the extended aeration mode. The treatment units include; bar screen, flow equalization chamber, aeration chamber, clarifier, aerobic digester, chlorine contact chamber and 2 holding tanks. The raw enters the first chamber of the plant called the equalization basin. The raw waste water is met with return activated sludge from the bottom of the clarifier known as the RAS. From this basin the treatment continues to the aeration chamber by using an air lift pump. It then continues to the clarifier through a 6” transfer line. The sludge then settles out in the clarifier. The clear water exits to the chlorine contact chamber and the activated sludge returns to the EQ tank. The effluent is then chlorinated and sent to the effluent holding tanks. From here the process is finished and the treatment effluent is sent out the 001 outfall. Waste sludge goes to the digester and is hauled offsite..