

PLAIN LANGUAGE SUMMARY

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.

TotalEnergies Petrochemical & Refining USA, Inc. (CN600582399) operates Port Arthur Refinery (RN102457520) an existing petroleum refinery which produces chemicals and includes marine cargo handling, petroleum bulk stations and terminals, and production and handling facilities. The facility is located 7600 32nd St, the northwest corner of State Highway 87 and Farm-to-Market Road 366 in Port Arthur, Jefferson County, Texas 77462. This application is being submitted for a permit renewal. Petroleum refining wastewater and organic chemicals, plastics, and synthetic fibers wastewater, stormwater, utility wastewater are discharged via Outfall 001 at a daily average flow rate not to exceed 7.1 million gallons per day (MGD). Stormwater on an intermittent and flow-variable basis discharges through Outfalls 002, 004, 006, and 008. Wastewater from the Lower Neches Valley Authority (LNVA) Water Treatment Sludge Settling Basing Placement Area and stormwater on an intermittent and flow-variable basis discharges through Outfalls 003, 005, and 007.

Discharges from the facility are expected to contain total organic carbon, ammonia, sulfide, chromium, chemical oxygen demand, total suspended solids, volatile organics, semi-volatile organics, phenolic compounds, and oil and grease. The wastewaters will be treated by screening, pH control, oil/water separation pretreatment, oil/water separation (corrugated plate interceptors, rapid mix, dissolved air flotation), primary clarification, benzene National Emission Standards for Hazardous Air Pollutants (NESHAP) pretreatment, intermediate equalization, secondary activated sludge process (pH adjustment, aerated biotreatment, flocculation, clarification), and solid/liquids separation for process wastewater and process stormwater.