## Plain Language Summary for Texas Pollutant Discharge Elimination System (TPDES) Permit Application

**INDUSTRIAL WASTEWATER/STORMWATER**

*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*.

Valero Refining–Texas, L.P. (CN600127468) operates Valero Houston Refinery (RN100219310) a petroleum refinery. The facility is located at 9701 Manchester Street, in Houston, Harris County, Texas 77012.

This application is for the renewal to discharge via Process Outfall 001 and Stormwater Outfalls 002, 003, 005, 006, 007, and 008. The discharge route is from the plant site directly to the Houston Ship Channel/Buffalo Bayou Tidal via Outfalls 001, 002, 003, 005, 006, and 008, and to the tidal portion of Sims Bayou, which is part of the Houston Ship Channel/Buffalo Bayou Tidal via Outfall 007. For process Outfall 001, the following contributing waste streams are discharged at 3,300,000 gallons per day (daily average): treated process wastewater, utility wastewater (cooling tower blowdown, condensate boiler blowdown, water treatment wastewater, heat exchange cooling water backwash), hydrostatic test water, fire system test water, and stormwater from process, non-process, and construction areas. For Stormwater Outfall 002, the following contributing streams are discharged with a variable flow: post first-flush storm water runoff, steam condensate/clarified water, fire system test water, cooling tower overspray, heat exchanger cooling water backwash, water treatment wastewater, and hydrostatic test water. For Stormwater Outfall 008, the following contributing streams are discharged with a variable flow: storm water runoff, steam condensate, fire system test water, hydrostatic test water, cooling tower overspray, water treatment wastewater, and heat exchanger cooling water backwash. For Stormwater Outfalls 003, 005, 006, and 007, the following contributing streams are discharged with a variable flow: storm water runoff, steam condensate, fire system test water, hydrostatic test water, cooling tower overspray, and heat exchanger cooling water backwash.

Discharges from the facility are expected to contain Total Suspended Solids, Phenols, Ammonia, Sulfide, Chromium, Zinc, and Free Cyanide. The discharges are also analyzed for Carbonaceous Biochemical Oxygen Demand (CBOD 5-day), Chemical Oxygen Demand (COD), Oil and Grease, Temperature and pH. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. Process and some stormwater are treated bythe Wastewater Treatment Plant located onsite.