

## 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.*

BASF TOTALenergies Petrochemicals LLC (CN604166967 ) operates BASF TOTAL NAFTA Region Olefins Complex (RN100216977) a steam cracking operation that converts naphtha and light hydrocarbons to produce ethylene, propylene, and butadiene. The facility is located Gate 99 State Highway 366, in Port Arthur, Jefferson County, Texas 77642.

This application is for a renewal to discharge stormwater runoff, fire suppression system water, steam condensate, hydrostatic test water, other non-stormwater de-minimus wastestreams, process area stormwater, utility wastewater which includes cooling tower drift and splash over, clarified water, demineralized water overflows, potable water sources, raw water supply, non-contact cooling tower water during maintenance via Outfall 001 on a continuous and flow-variable basis. The application for renewal requests to continue to discharge no more than 2,600,000 million gallons of cooling tower blowdown, utility wastewater which includes wet scrubber air pollution control systems, ion exchange water treatment system, water treatment evaporator blowdown, boiler blowdown, laboratory and sampling streams, flooring drainage, cooling tower basin cleaning wastes, steam and boiler condensate, and blowdown from recirculating house service water system via Outfall 002.

Discharges from the facility are expected to contain total organic carbon, oil and grease, zinc, nickel, chromium, copper, lead, cyanide, and total suspended solids. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Process wastewater is generated during the cracking and purification operations. The process wastewater is pretreated and pumped to an adjacent refinery for further treatment and subsequent discharge under its TPDES permit.

All of the process areas throughout the facility covered under this permit application have been subdivided into subdrainage areas that are equipped with catch basins. The catch basins are connected by stormwater laterals, headers and mains that drain by gravity into the stormwater diversion sumps. Each stormwater diversion sump is divided into two main compartments: 1) a primary holding compartments and 2) a contaminated stormwater spillover compartment. The diversion sumps are designed to contain the stormwater runoff generated by a 24-hour one-inch rainfall event. During minor rainfall events, runoff enters the first compartment of the diversion sumps. Sump pumps transfer the stormwater from the primary compartment of the diversion sumps to the Wastewater Equalization Tank, where oils may be skimmed off and the pH adjusted prior to being sent to the adjacent refinery for further treatment and discharge.

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Water Quality Applications Team