

Plain Language Summary

Brenntag Southwest Inc. (CN601095748) operates its Greens Bayou Chemical Complex (RN102076601) a chemical production facility. The facility currently manufactures, repackages, stores, and distributes chemical products for end use in drinking water and wastewater treatment (coagulants and disinfectants), industrial applications, oilfield use, and food related applications. The facility presently consists of two aluminum sulfate (alum) production units, a sodium hypochlorite (bleach) production unit, a chlorine repackaging unit, a raw material/product storage (shore tank farm) area, a chemical blending/repackaging area that includes four processing warehouses, a flammable blending and packaging area, and a 100,000-square foot storage and distribution warehouse for finished products. The facility is located 1632 Haden Road, in Houston, Harris County, Texas 77015-6402.

This application is for the renewal to discharge stormwater runoff from the facility via Outfall 001 and Outfall 003.

Discharges from the facility are expected to contain color (PCU), iron, and tin. The wastewater from the facility results from rainfall that contacts dikes storage tank areas, chemical loading/unloading areas, and storm water that falls onto other site structures. All wastewater from the facility is a result of rain events. There is no process wastewater that is generated from the processes. There is currently no treatment facility located on site nor does Brenntag plan to construct a treatment facility in the future. Discharges from the facility will be the result of storm water runoff only.

Process Description

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Water Quality Applications Team

Brenntag Southwest, Inc. (Brenntag) currently manufactures, repackages, stores, and distributes chemical products for end use in drinking water and wastewater treatment (coagulants and disinfectants), industrial applications, oilfield use, and food related applications at its Greens Bayou Chemical Complex located at 1632 Haden Road, Houston, Texas 77015. Brenntag presently consists of two aluminum sulfate (alum) production units, a sodium hypochlorite (bleach) production unit, a chlorine repackaging unit, a raw material/product storage (shore tank farm) area, a chemical blending/repackaging area that includes four processing warehouses, a flammable blending and packaging area, and a 100,000-square foot storage and distribution warehouse for finished products.

The alum facilities produce approximately 110,000 dry tons of alum utilizing either aluminum tri-hydrate (ATH) or bauxite ore. The reactions utilize water, sulfuric acid, and either ATH or bauxite as raw material constituents for the manufacture of alum. The ATH alum reactor/digester, day tanks, and ATH storage pile are located inside of a 10,000-