

Surface Water Discharge Permits

Pantex Plant is required to conduct all operations in compliance with the water resource permits listed in Table 4.6.1.1–3. These permits include NPDES Permit No. TX-0107107, TNRCC Wastewater Discharge Permit No. 02296 as amended, NPDES General Stormwater Discharge Permit TXR00G138, and a *Clean Water Act* (33 U.S.C. 1251) Section 404 Dredge and Fill Permit (EPA 1996; TNRCC 1996b; EPA 1995; USCOE 1994). Each of these surface water permits are discussed below.

NPDES Permit No. TX-0107107. In 1990, Pantex Playas 1, 2, 3, 4, and Pantex Lake were determined to be jurisdictional wetlands by COE, and are therefore considered to be waters of the United States subject to protection by the NPDES. EPA Region 6 NPDES Permit No. TX-0107107 authorizes Pantex Plant to discharge to the waters of the United States, under specified effluent limitations and monitoring requirements (EPA 1996). Pantex Plant discharges treated domestic and industrial wastewater into ditches and Playas 1, 2, and 4 under the terms and conditions of this permit. The discharge from Pantex Plant is directed into four playa lakes adjacent to the watershed of McClellan Creek (about 8 kilometers [5 miles]

to the east), which flows into the North Fork of the Red River (Waterbody Segment Code No. 0224 of the Red River Basin). There are no known surface water connections that could transport potential contaminants from Pantex Plant into the Canadian River. Due to the flat, level topography of Pantex Plant, streams are not well developed on the landscape and surface waters drain to the playa basins.

The NPDES permit has daily average and daily maximum effluent volume limitations of 2.5 and 3.1 million liters (0.65 and 0.82 million gallons) per day respectively for Final Outfall 001. Effluent is regulated in the NPDES Permit for the following parameters or chemical constituents at one or more outfalls:

- **Metals** - antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, cyanide (total and amenable), lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, titanium, and zinc;
- **HEs** - HMX, RDX, PETN, and TNT; and
- **Miscellaneous Water Quality Parameters** - ammonia, biochemical oxygen demand, chemical oxygen demand, oil and grease, pH, total suspended solids, and total dissolved solids.

TABLE 4.6.1.1–3.—Water Resource Permits Issued to Pantex Plant

ACTIVITY	PERMIT NUMBER	ISSUING AGENCY	EFFECTIVE DATE	EXPIRATION DATE
NPDES Permit	TX-0107107	EPA	6/1/1996	5/31/2001
Wastewater Discharge Permit	02296 (Amended)	TNRCC	6/14/1996	6/14/2001
NPDES General Stormwater Discharge Permit	TXR00G138	EPA	2/15/1995	10/01/1997
<i>Clean Water Act</i> Section 404 Dredge and Fill Permit	Nationwide Permit for Survey Activities	Corps of Engineers	06/16/1994	6/16/1996

Sources: Pantex 1996c:15; EPA 1996; TNRCC 1996b; EPA 1995