TABLE 4.5.1.3–2.—*Summary of Flow Systems 1 Through 5 and Compounds Identified as Exceeding the Decision Criteria in Surface and Subsurface Soils*

FLOW SYSTEM 1	FLOW SYSTEM 2	FLOW SYSTEM 3	FLOW SYSTEM 4	FLOW SYSTEM 5
DESCRIPTIONS				
Flow system 1 consists of Playa 1 and the unlined, man-made ditches that direct runoff and wastewater discharge away from Zones 11 and 12 to this playa.	Flow system 2 consists of several unlined, man-made ditches that direct runoff and wastewater discharge away from Building 11-50 to Playa 2.	Flow system 3 is composed only of Playa 3.	Flow system 4 consists of several unlined, man-made ditches that direct runoff and wastewater discharge away from Zone 11 and Zone 12 south.	Flow system 5 consists of Pantex Lake and two unlined, man-made ditches that direct runoff and wastewater discharge from the OSTP.
SURFACE SOILS				
Metals, SVOCs, pesticides/PCBs, HE (HMX)	Metals, VOCs, SVOCs	One sample with lead, barium, cobalt, and nickel. Barium in NE quadrant of playa and lead in NW quadrant.	Metals	Metals
SUBSURFACE SOILS				
Metals, SVOCs, HE (HMX, RDX)	Metals	None	Pesticides, HE, SVOC, aldrin, and RDX	Metals

Source: Pantex 1994a:9-1, 9-2

and PCBs. Contaminants exceeding the PRGs in Playa 1 include seven inorganics (the most common was chromium, which exceeded the PRG by up to 250 percent at 15 locations), and two pesticides (4-4'-DDT, and aldrin). Contaminants detected above the PRGs at Flow System 4 include metals, VOCs, pesticides, and HE. The Ditches and Playas RFI recommends additional sampling at many locations within this grouping to further define the horizontal and vertical extent of contamination (USCOE 1995f:Vol. 1 of 5).

The Firing Sites group (AL–PX–09) consists of seven firing sites, located in the north-central portion of Pantex Plant, that have been in operation since 1952. Five of the firing sites are active, and two are currently inactive. The sites have been used for testing of HE in connection with quality control and research and development activities. Some radioactive materials, primarily depleted uranium (DU), were involved in the testing program. Sampling of soil at Firing Sites 4, 5, and 10 is conducted on an annual basis and is discussed in the following section.

The Pantex ER program addresses only inactive sites. Active sites are closed under the RCRA permit process. A request has been submitted to TNRCC to remove the four active firing sites from the Pantex Plant ER program. An ICM is being conducted on FS–5 to remove surface DU contamination. Subsequent confirmation sampling and risk assessment will be conducted at FS–5. Confirmation sampling will be