Table 7-1: Conceptual Site Model - Pathway Analysis

Primary Sources	Primary Release Mechanisms	Secondary Sources	Secondary Release Mechanisms	Pathway	Exposure Route	Receptors: Human: Off-Site Residents	Receptors: Human: Off-Site Recreators	Receptors: Human: On-Site Indoor Workers	Receptors: Human: On-Site Construction Workers	Receptors: Ecological: Aquatic
Perimeter Road: NPBA and SPBA	Dust/Rodent Control, Degreaser Wastes poured in animal burrows and sprayed on road	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion	NPBA-W & SPBA			*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact	NPBA-W & SPBA			*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation	NPBA-W & SPBA			*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated GW	Volatilization	Vapor intrusion	Inhalation	NPBA-W & SPBA		*		
North End Test Track	Leakage of chlorinated solvents from drums; disposal of liquid wastes in pits	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated GW	Volatilization	Vapor intrusion	Inhalation			*		
Building 58; Building 2 Vapor Degreaser; TCA Tank Area	Unknown releases of TCE; leakage from vapor degreaser and TCA AST	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated GW	Volatilization	Vapor intrusion	Inhalation			*		
Former Cutting Oil Tank	Unknown releases of TCE	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated GW	Volatilization	Vapor intrusion	Inhalation			*		
North Plant Area; UST and Fueling Dispenser; and IWTP	Unknown release of TCE and PCE in NPA and IWTP; release of unleaded gasoline compounds in UST area.	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated GW	Volatilization	Vapor intrusion	Inhalation			*		
West Building 2 Corridor and Building 4	Releases of chlorinated solvents from unknown sources near Bldg 2 and from vapor degreasers in Bldg 4; chromium released from plating operations in Bldg 4	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
		Contaminated Groundwater	Volatilization	Vapor intrusion	Inhalation			*		
West Parking Lot and Burn Pile Area	Landfill and liquiid waste disposal; disposal of solids and liquids at burn pile.	Contaminated Soil	Partitioning to pore water	Groundwater Plume	Ingestion				*	
		DNAPL in Soil & BR	Dissolution in Groundwater		Dermal Contact				*	
		Diffused mass in BR & Residuum	Reverse Diffusion		Inhalation				*	
		Primary solvents in GW	Transformation to daughter products							
Levee Area Adjacent to Codorus Creek	Pre-pumping groundwater chemical flux	Mass sorbed to solid phase organic carbon and diffused into the rock matrix and residuum/sediments	Reverse Diffusion and Desorption.	GW Discharge to SW	Ingestion		*			*
					Dermal Contact		*			

* Indicates Complete Exposure Pathway (a complete pathway does not necessarily indicate risk).