

**DFSP NORWALK
R.A.B. WORKSHOP
SUBSURFACE DISTRIBUTION OF TANK FARM FUEL RELEASES
AUGUST 24, 1995**

DISCUSSION TOPICS:

■ **Exploration Techniques:**

- **Soil Borings**
- **Soil Gas Surveys**
- **Monitoring Wells**

■ **Analytical Methods:**

Soil/Solids/Air

- **EPA Method 8015 (TPH = Gasoline, Diesel, Jet Fuel)**
- **EPA Method 8020 (BTEX = Benzene, Toluene, Ethylbenzene, Xylenes)**
- **EPA Method 8010 (Halogenated VOCs)**
- **EPA Method 8080 (Pesticides and PCBs)**
- **EPA Method 8100 (Polynuclear Aromatics)**
- **EPA Method 8240 (Volatile Organics)**

Water

- **EPA Method 602 = 8020**
- **EPA Method 601 = 8010**
- **EPA Method 608 = 8080**
- **EPA Method 610 = 8100**
- **EPA Method 624 = 8240**

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■ **Reporting Units**

Solids

mg/kg = milligrams per kilogram = ppm

$\mu\text{g/kg}$ = micrograms per kilogram = ppb

Water

mg/l = milligrams per liter = ppm

$\mu\text{g/l}$ = micrograms per liter = ppb

Air

$\mu\text{g/l}$ = micrograms per liter

mg/m^3 = milligrams per cubic meter = $\mu\text{g/l}$

(to convert to ppm in vapor - ppmv:

$\mu\text{g/l} \times 0.2843 = \text{ppmv}$)

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■ **Subsurface Plumes**

Southside:

Buried Sludge

Tank Farm:

TPH & BTEX in Soil

TPH & BTEX in Water

Free Product