Perimeter Air Monitoring Results
Aerovox Excavation 2008
New Bedford, MA
June 30 - July 4 2008

Action Levels

Air Contaminant	8-hour TLV	Perimeter Assessment Value	Perimeter Action Limit
Vinyl Chloride (VC)	1 ppmv	0.1 ppmv	0.2 ppmv
Perchloroethene (PCE)	25 ppmv	2.5 ppmv	5 ppmv
Trichloroethene (TCE)	10 ppmv	1 ppmv	2 ppmv
1,2-Dichloroethene (1,2-DCE)	200 ppmv	20 ppmv	40 ppmv
Hydrogen Sulfide (H2S)	10 ppmv	1 ppmv	2 ppmv
Particulates	0.3 mg/m^3	0.3 mg/m^3	0.3 mg/m^3
PCBs	0.5 mg/m^3	0.05 mg/m^3	0.1 mg/m^3

TLV - threshold limit value, exposure level for 8-hour occupational exposure per ACGIH (American Conference of Governmental Industrial Hygienists)

Perimeter Assessment Value - 1/10th of TLV for VOCs; TLV for particulates

Perimeter Action Limit - 2/10th of TLV for 15 minutes; TLV for particulates. Exceedance will prompt correctiveaction.

ID	Aerovox Site Location	Date	Time	H_2S (1) ppmv	VOCs (2) ppmv	Draeger Tube (3) ppmv	Particulates (4) mg/m^3	Lab Sample Results (5) ppbv	Total PCBs mg/m^3
FencSou	**Southern Fenceline** No field activities this week so no sampling	June 30 - July 4	Not Sampled						
FencSou1	**Southwest Fence** by Aerovox gate No field activities this week so no sampling	June 30 - July 4	Not Sampled						
BellSt	**Belleville Avenue** No field activities this week so no sampling	June 30 - July 4	Not Sampled						
Precix	**Northern Fenceline** adjacent to Precix No field activities this week so no sampling	June 30 - July 4	Not Sampled						

ID	Sawyer Street Location	Date	Time	H_2S (1) ppmv	VOCs (2) ppmv	Draeger Tube (3) ppmv	Particulates (4) mg/m^3	Lab Sample Results (5) ppbv	Total PCBs mg/m^3
ARCRope	**Ropeworks Building** Southeast corner of building	June 30 - July 4		No Sampling or Monitoring at this location during subject time period.					
ARCLiteP	**North Perimeter Fence** North of Cell #1 at perimeter fence	June 30 - July 4		No Sampling or Monitoring at this location during subject time period.					
ARCFencS	**South Perimeter Fence** Between Cell #1 and Sawyer Street	June 30 - July 4		No Sampling or Monitoring at this location during subject time period.					

Notes:

(1) H_2S - hydrogen sulfide

(2) PID - photoionization detector, real-time screening instrument for total volatile organic compounds (VOCs) in parts per million by volume (ppmv).

(3) Draeger Tube - real-time screening device that is used to identify and measure concentrations of individual compounds in ppmv.

(4) Particulates measured as total respirable dust in air at Aerovox only (for Portland cement); not measured if raining.

(5) Laboratory samples are collected in Tedlar bags using a pump, and analyzed for nine individual VOCs. Only detected VOCs are reported here.

(6) Draeger tubes readinngs taken in Contaminant Reduction Zone and Exclusion Zone were ND for all contaminants

PCE - perchloroethene (also called tetrachloroethene)

TCE - trichloroethene

VC - vinyl chloride

1,2-DCA=1,2-dichloroethane

1,2-DCE=cis-1,2-dichloroethene

ND = nondetect
NA = not analyzed
TWA = time weighted average; readiings collected continuously over a 10 to 12-hour period to measure exposure for one day.
mg/m^3 - milligrams of respirable dust per cubic meter of air
ppmv=parts per million by volume
ppbv=parts per billion by volume