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The following compounds were found in the analysis of the seven samples with the maximum concentrations reported and comparison values that have been used for this event.

Chemical	Maximum Concentration ppb/v	Comparison Values (ppb)	Source
1,2,4-Trimethylbenzene	0.74	1.3	prg
1,3,5-Trimethylbenzene	0.26	1.3	prg
4-Ethyltoluene	0.89	8,000	teel
Benzene	0.95	3	c mrl
Chloroform	4.1	20	c mrl
Dichlorodifluoromethane	0.52	36	rbc
Ethylbenzene	2.2	200	rbc
Hexane	2.3	600	c mrl
m/p-Xylenes	4.3	50	c mrl
Methyl Ethyl Ketone	4.3	2,000	rbc
Methyl Isobutyl Ketone	0.80	730	rbc
Methyl-t-Butyl Ether	1.3	700	c mrl
o-Xylene	1.1	50	c mrl
Tetrachloroethylene	0.21	40	c mrl
Tetrahydrofuran	2.7	100	ATSDR
Toluene	7.5	80	c mrl
Trichlorofluoromethane	0.22	130	rbc

c mrl = ATSDR Chronic Minimal Risk Level
prg = EPA's Preliminary Remediation Goal
rbc = EPA Risk Based Concentration
rbc = EPA Reference Concentration
teel = Temporary Emergency Exposure Limits
ATSDR = ATSDR derived action level for this site.

EPA Region I has advised ATSDR that an emergency removal action is being planned and is expected to commence soon.

Action Required/Recommendations/Info Provided:

As indicated above, none of the compounds are present at concentrations above their respective comparison values.

In this dataset for the first time at this site, chloroform is reported at a maximum concentration of 4.1 ppb. Chloroform is a probable human carcinogen and the concentration reported is above a calculated cancer risk comparison value for a 70 year exposure. However, with a removal action planned to commence soon, 70

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years of exposure is not likely and the risk of cancer from this exposure should be minimal.

ATSDR and MaDPH concludes that none of the concentrations of any of the compounds detected in the third round of sampling represent a health concern under the exposure conditions expected at this site.

Based on the three air sampling events by EPA since the initial explosion, ATSDR does not see a need for further ambient air sampling until such time as the areas in the vicinity of the chemical storage tanks or vats in the destroyed or damaged buildings are disturbed during removal operations.

The conclusions and recommendations presented here are based on the information provided. If additional information becomes available or the situation at the scene changes, these conclusions and recommendations may need to be adjusted appropriately. ATSDR and MDPH are available to answer additional questions or concerns as the need arises, including the air monitoring plan that will be implemented during removal operations.



Signature: Richard A. Nickle Date: 12/12/2006

Enclosures: Yes () No (); MIS entered: Yes () No ()

cc: ATSDR Region
State HA Coop. Coord.
DHAC/PERIS
ERS Reading File