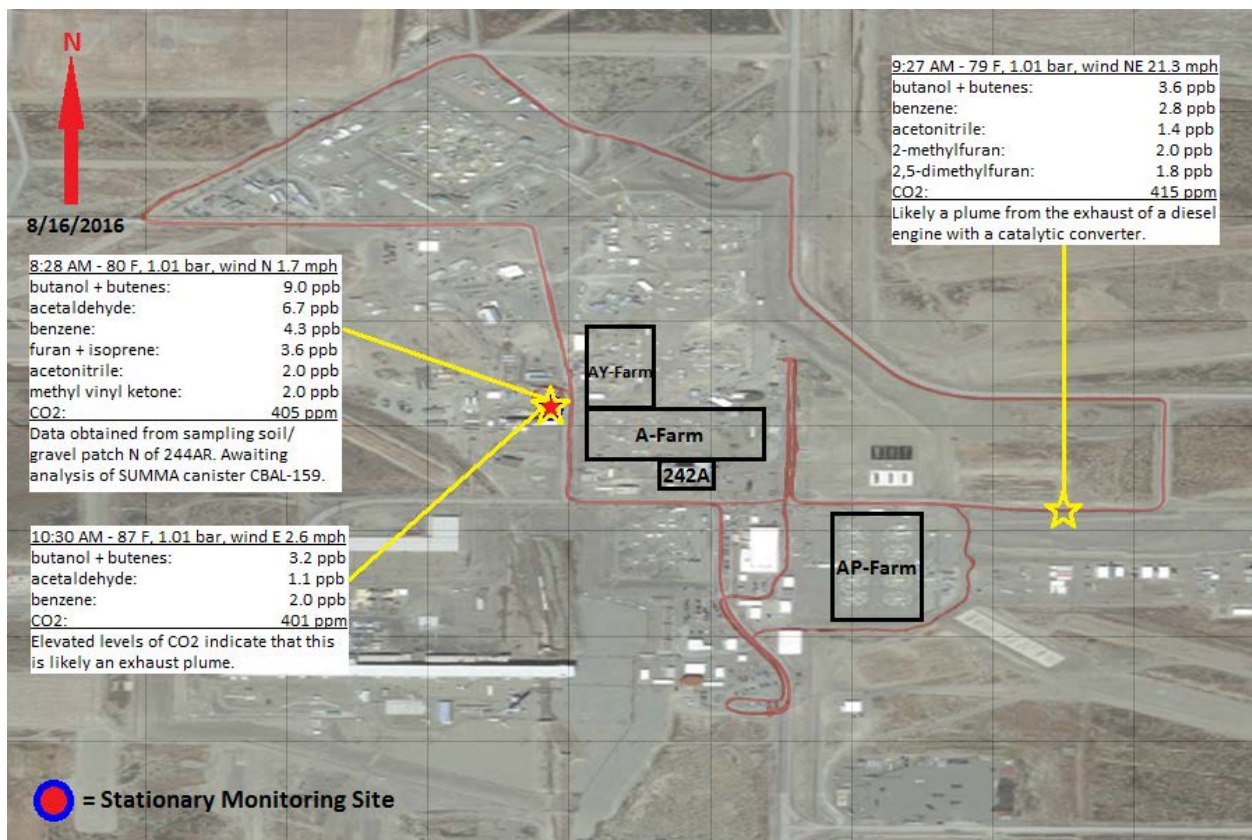


Mobile Lab Results from 8-16-16

The mobile laboratory was used to determine vapors at the Hanford tank farm while travelling through the Hanford tank farms and in specific stationary sites. The specific stationary sites were near the **242-A Evaporator** and just west of **A-Farm**. Another plume was detected while travelling east of **AP-Tank Farm**. The results from 8-16-2016 indicate compounds that are typical of partial combustion products, rather than tank sources. In any case, all detected compounds are below the **Occupational Exposure Limits (OEL)** for each compound as shown in the table below. Vapor plumes detected were very short durations (less than 2 mins typically) and therefore will not challenge the constant levels of exposure needed to challenge the OEL. The levels detected are consequently well below any immediate effects but may be above odor thresholds. The chemical listing and their associate OELs can be found here:

<..\..\References\Industrial Hygiene Chemical Vapor Technical Basis RPP-22491 - Rev 1.pdf>



Chemical	OEL	Maximum Concentration Detected (<2 mins)
Acetaldehyde	25 ppm (Ceiling Limit) ¹	0.0067 ppm
Acetonitrile	20 ppm	0.0014 ppm

¹ The ceiling limit is the concentration that should not be exceeded during any part of the working exposure.

Methyl Vinyl Ketone (MVK)	0.2 ppm(Ceiling Limit) ²	0.002 ppm
1-butanol/butene	20 ppm	0.009 ppm
Furan+ Isoprene	Furan: 0.001ppm	0.0036 ppm ³
Benzene	0.5 ppm	0.0043 ppm
2-Methylfuran	0.001 ppm	0.002 ppm
2,5 Methylfuran	0.001 ppm	0.0018 ppm
CO2	5000 ppm	415 ppm

² The ceiling limit is the concentration that should not be exceeded during any part of the working exposure. Currently not in COPC list, Information gathered from CDC/NIOSH.

³ The passing plume had only a few minutes of concentration and therefore does not challenge the OEL.