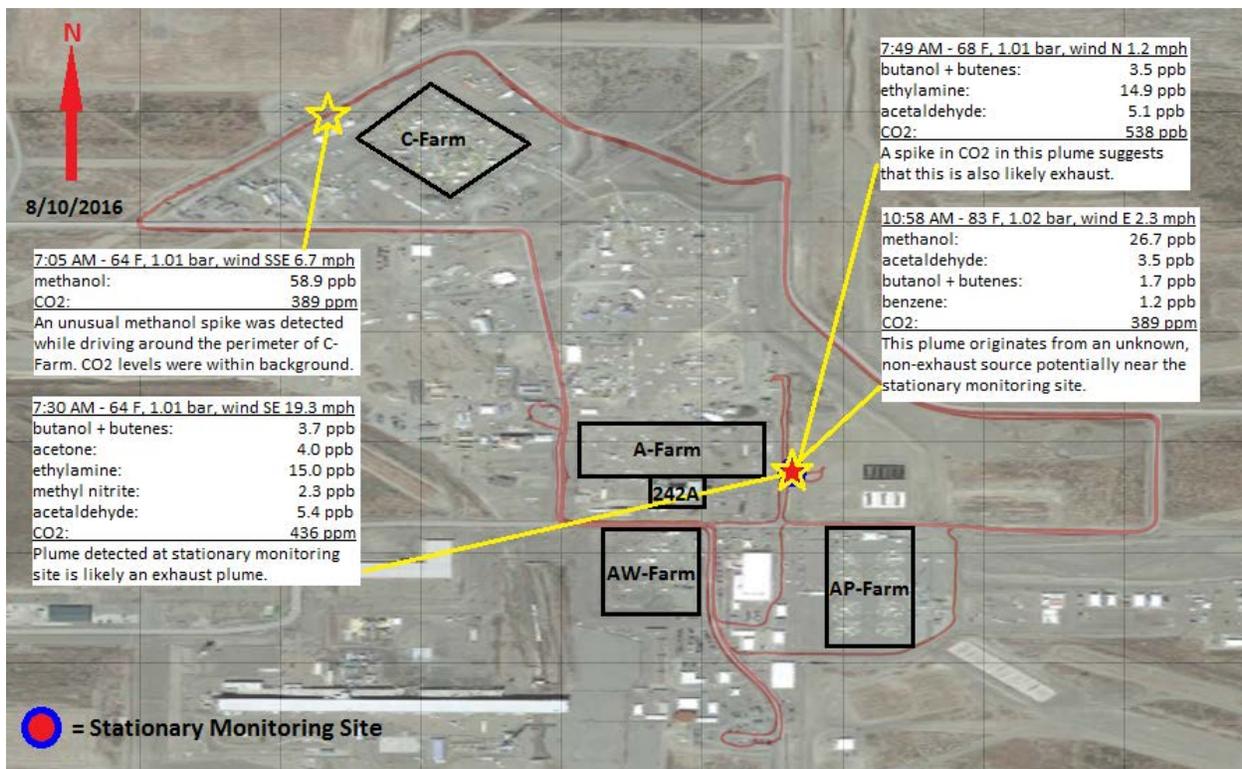


Mobile Lab Results from 8-10-16

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 east of **A-Farm**. The results from 8-10-2016 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
Acetaldehyde	25 ppm (Ceiling Limit) ¹	0.0054 ppm
Benzene	0.5 ppm	0.0012 ppm
Methanol	200 ppm	0.0589 ppm
Acetone	250 ppm	0.004 ppm
Methyl Nitrite	0.1 ppm	0.0023 ppm
1-butanol/butene	20 ppm	0.0025 ppm

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

Ethylamine	5 ppm	0.002 ppb
CO2	5000 ppm	499 ppm