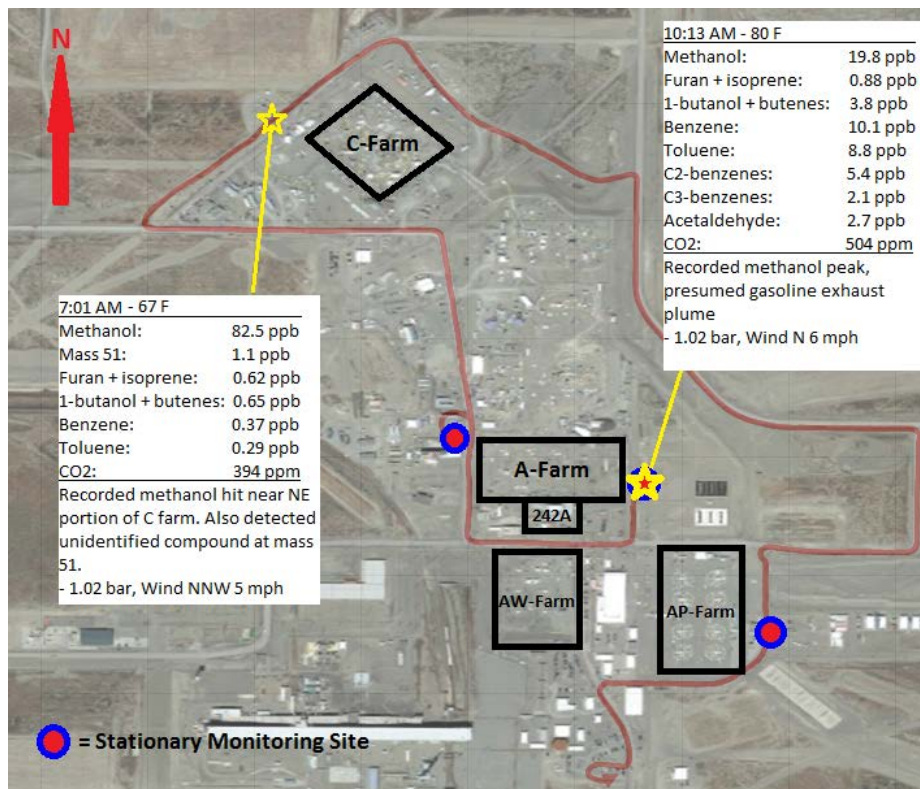


Mobile Lab Results from 7-13-16

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** as shown on the map below and just east of **AP Tank Farm**. The results from 7-13-2016 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 unidentified compound at Mass 51 is typical of compound fragments that likely have broken down from other compounds. 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
Methanol	200 ppmv	0.0825 ppm
Furan	0.001 ppmv	0.00088 ppm
1-butanol/butene	20 ppm	0.0038 ppm
Benzene	0.5 ppm	0.01 ppm
C2 Benzene	30 ppm	0.0054 ppm
C3 Benzene	30 ppm	0.0021 ppm
Toluene	50 ppm	0.00029 ppm

CO2	5000 ppm	504 ppm
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