Mobile Monitoring in El Segundo: Hyperion Treatment Facility

08/04/2021
Overview

Mobile measurements using Optical Remote Sensing Mobile Laboratory

Measure instantaneous (> 10s) concentrations in real-time

• Gaseous Air Toxics
  • Benzene, toluene, ethylbenzene, xylenes

• Other Pollutants
  • Methane, total VOC’s
  • SO2 (post deployment re-analysis is possible)
Measurements Route
Aug 4th 2021 6:30 am – 10:00 am
Methane mobile map for a selected transect 08/04/2021 07:48 – 09:55 am

*Note: methane background of 2.1 ppm is assumed*
Instantaneous measurements between 07:50 – 07:52 am
Benzene=12.7
Toluene = 39.8
Ethylbenzene=20.0
Xylenes (m/p)=38.4/7.7

This short-term enhancement was not sustained (potentially a transient source, i.e. a passing vehicle), repeated measurements at this location did not show elevated levels.

No other elevated BTEX observed in the community
Summary

• Mobile ORS measurements for gaseous air toxins and other pollutants were conducted on 8/04/21 between 6:30 and 10 am
• Slightly elevated levels of methane compared to other areas surveyed were observed near the facility but were within typical ambient methane levels measured in urban areas
• No sustained elevated levels of air toxics, BTEX, were detected in the community
• A brief BTEX plume (with max benzene of ~13ppb, instantaneous measurement) was detected between 7:50 and 7:52 am near intersection of W Grand Ave and Isla Del Mar (between Statesboro Power Plant and Chevron refinery), an it was no longer present during a repeated measurement at this location.