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### WEEK 1 REPORT – LOCAL SOURCES AND ASSOCIATED GRAPHS

### **DECEMBER 9<sup>TH</sup>, 2016**

#### Summary

Mobile lab operated between 5:30 AM and 3:15 PM. AY-102 retrieval was delayed in the morning hours due to cold overnight temperatures. Weather station data is not available due to a software error. The mobile lab spent approximately four hours monitoring downwind of AP farm (East side) from 10 AM to 2 PM. The weather station software was corrected after hours for the following day lab deployment.

### **December 9<sup>th</sup> Local Sources**

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LS01a,	Weather/GPS data unavailable
12/09/16	CO2: 600 ppm (max)
6:30 AM	methanol: 297 ppb (max)
	Detected spikes of methanol for a prolonged time while stationary at the AY shift
	office. The elevated signals persisted until the vehicle was moved some time after
	10:00 AM. CO2 dropped to just over 300 ppm and remained steady after around 7:10
	AM.
	Note: location was determined through field notes, which indicated the vehicle
	remained stationary in this location for hours.
LS01b,	Weather/GPS data unavailable.
12/09/16	CO2: 306 ppm
2:56 PM	acetaldehyde: 5.64 ppb
	1-butanol + butenes: 6.48 ppb
	1,3-butadiene: 3.93 ppb
	benzene: 3.35 ppb
	2,4-dimethylpyridine: 0.40 ppb
	Detected a short spike in compounds typically found in exhaust while driving from
	200E back to Pasco. Exact location unknown.

# December 9<sup>th</sup> Graphs

LS01a



LS01b



# December 9<sup>th</sup> Maps

200E



Highway



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### **DECEMBER 10<sup>TH</sup>, 2016**

#### Summary

Mobile lab operated between 5:30 AM and 11:15 AM. AY-102 retrieval was delayed in the morning hours due to cold overnight temperatures. The mobile lab drove the AY, C, AX, A and AP area and spent 90 minutes on the downwind side (East) of AP farm. At 10:00 AM retrieval attempts were cancelled for the day and the mobile lab was released early.

### December 10<sup>th</sup> Local Sources

LS02a, 12/10/16	28 F, 1.01 bar, wind SW 4 mph
9:12 AM	acetaldehyde: 3.73 ppb
	1-butanol + butenes: 1.71 ppb
	1,3-butadiene: 1.44 ppb
	benzene: 0.48 ppb
	Measured a weak unidentified local event.
LS02b, 12/10/16	29 F, 1.01 bar, wind N/A
10:56 AM	acetaldehyde: 1.84 ppb
	1-butanol + butenes: 1.97 ppb
	benzene: 1.01 ppb
	1,3-butadiene: 1.10 ppb
	Measured a local source while on transit back to CBAL. This source could be
	considered representative of typical traffic-related vapors.

## December 10<sup>th</sup> Graphs

LS02a







## December 10<sup>th</sup> Maps

200E



Town



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### **DECEMBER 12<sup>TH</sup>, 2016**

#### Summary

Mobile lab operated between 5:00 AM and 5:00 PM. Mobile lab had a flat tire in the morning and arrived on-site at 9:30 AM. Monitoring was focused around AY-102 retrieval locations although it was not clear if waste was being transferred. Observed elevated VOC around the AP farm. Further data processing is needed to speculate on source but it appeared to be generator exhaust.

#### December 12<sup>th</sup> Local Sources

LS03a,	26 F, 1.02 bar, wind NW 7 mph
12/1216 6:09	CO2: 305 ppm
AM	methanol: 11.58 ppb
	1-butanol + butenes: 8.60 ppb
	benzene: 3.33 ppb
	1,3-butadiene: 1.26 ppb
	2,4-dimethylpyridine: 0.92 ppb
	A fairly typical gas station vapor event.
LS03b,	32 F, 1.02 bar, wind N/A
12/12/16	CO2: 305 ppm
9:19 AM	1-butanol + butenes: 47.72 ppb
	1,3-butadiene: 5.95 ppb
	propanenitrile: 1.36 ppb
	butanenitrile: 1.07 ppb
	hexanenitrile: 0.98 ppb
	This event was observed while stationary at Les Schwab Tire Center. This event was chosen
	primarily to provide additional contextual data for the Hanford tank vapors.
LS03c,	33 F, 1.02 bar, wind S 6 mph
12/12/16	CO2: 305 ppm
12:33 PM	methanol: 3.72 ppb
	acetaldehyde: 2.52 ppb
	1-butanol + butenes: 2.68 ppb
	benzene: 1.55 ppb
	1,3-butadiene: 1.50 ppb
	This event was observed while parked S of 274AW.
LS03d,	32 F, 1.02 bar, wind S 4 mph
12/12/16	CO2: 309 ppm
3:14 PM	acetaldehyde: 17.51 ppb
	1-butanol + butenes: 10.03 ppb
	1,3-butadiene: 8.92 ppb

MVK + 2,3-dihydrofuran + 2,5-dihydrofuran: 3.31 ppb
2-methylfuran: 1.15 ppb
2,5-dimethylfuran: 0.89 ppb
This event was observed at the N fence line for AP farm. Field notes indicate that this is likely exhaust from the generator on the east side of MCC003., as the operator of the ML tries successfully to lessen the signal by driving around a building corner from the generator. When the
operator moves again, the signal reappears for several more minutes.

# December 12<sup>th</sup> Graphs

LSO3a













## December 12<sup>th</sup> Maps

200E



Town



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### **DECEMBER 13<sup>TH</sup>, 2016**

#### Summary

Operated between 5:00 AM and 5:00 PM. AY-102 retrieval likely not occurring based on downgraded vapor control zones. Most of the day spent moving around the AP farm to stay downwind. Observed VOC profiles likely from generators.

#### December 13<sup>th</sup> Local Sources

LS04a,	18 F, 1.03 bar, wind N/A
12/13/16 6:04	CO2: 500 ppm
AM	acetaldehyde: 9.57 ppb
	1-butanol + butenes: 5.44 ppb
	1,3-butadiene: 4.88 ppb
	3-methyl-3-buten-2-one + 2-methyl-2-butenal: 1.48 ppb
	butanal: 1.00 ppb
	MVK + 2,3-dihydrofuran + 2,5-dihydrofuran: 0.86 ppb
	Field notes indicate that this event is likely related to a traffic slowdown at the Wye
	barricade, indicating that this is almost certainly vehicle exhaust typical of a traffic-
	heavy commute.
LS04d,	26 F, 1.03 bar, wind N/A
12/13/16 4:25	CO2: 484 ppm
PM	1-butanol + butenes: 38.42 ppb
	acetaldehyde: 14.69 ppb
	benzene: 17.35 ppb
	1,3-butadiene: 8.58 ppb
	2,4-dimethylpyridine: 3.68 ppb
	propanenitrile: 1.19 ppb
	This event was recorded on the commute back to Pasco. It could be considered
	representative of a typical highway commute.
LS04b,	26 F, 1.03 bar, wind WNW 3 mph
12/13/16 8:35	CO2: 388 ppm
AM	acetaldehyde: 9.38 ppb
	1-butanol + butenes: 9.35 ppb
	1,3-butadiene: 5.07 ppb
	3-methyl-3-buten-2-one + 2-methyl-2-butenal: 0.92 ppb
	MVK + 2,3-dihydrofuran + 2,5-dihydrofuran: 1.24 ppb
	Field notes indicate that there was a period of heavy traffic in front of the stationary
	monitoring site throughout this time period. This event is representative of similar

LS04c,	28 F, 1.03 bar, wind N/A
12/13/16 3:23	CO2: 330 ppm
PM	methanol: 16.98 ppb
	1-butanol + butenes: 6.17 ppb
	benzene: 4.89 ppb
	1,3-butadiene: 2.84 ppb
	acetaldehyde: 2.99 ppb
	2,4-dimethylpyridine: 0.60 ppb
	NMOR: 0.36 ppb
	Observed unknown local source to the SE of AP farm. Elevated CO2 and similar
	compounds present in earlier hits except the signal for NMOR is more pronounced
	and breached OEL in this event.

## December 13<sup>th</sup> Graphs

LSO4a







LS04c



LS04d



## December 13<sup>th</sup> Maps

#### Highway



200E



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