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Appendix A. Supporting Information

Note: At the time of this update (January 2025), staff had collected and processed less than 1/4 of the total air monitoring data and did not have a full year's worth of validated data, which is the minimum needed to account for seasonal variation and for longer exposure durations. Future SNAPS updates will include IOF data collected after the June 2023-June 2024 time period, as well as additional pollutant data from June 2023-June 2024 (see Appendix B).

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Table A1. Full list of chemicals included in the discrete monitoring analysis from February 2024-June 2024. This included 28 heavy metals, 102 volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), 6 aldehydes and ketones, 20 sulfur compounds, and 17 polycyclic aromatic hydrocarbons (PAHs). Additional columns include the site(s) (West LA College [WLAC], Sentinel Peak Resources [SPR]), detected, and whether associated health guidance values (HGVs) were available.

* Chromium, which primarily exists in two states, was assumed to be 99% trivalent (Chromium III) and 1% hexavalent (Chromium VI), in line with the SNAPS Lost Hills Draft Final Report and South Coast Air Quality Management District's MATES V Final Report.[1,2]

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Total	**102**	**28**	**6**	**20**	**17**	**17**	**81**	**74**	**72**	**65**	**26**
1,1,1-Trichloroethane	X										
1,3-Butadiene	X						X		X		
Acetone	X						X	X	X	X	X
Acetonitrile	X										
Acrolein	X						X	X	X	X	X
Acrylonitrile	X										
Benzene	X						X	X	X	X	X
Bromomethane	X						X	X	X	X	X
Carbon Tetrachloride	X						X	X	X	X	X
Chloroform	X						X	X	X	X	X
cis-1,3-Dichloropropene	X										
Dichloromethane	X						X	X	X	X	
Ethylbenzene	X										

[1] California Air Resources Board. SNAPS Lost Hills Draft Final Report. Updated January 2024. *https://ww2.arb.ca.gov/resources/documents/snaps-lost-hills-draft-final-report*.

[2] South Coast Air Monitoring District. Multiple Air Toxics Exposure Study (MATES) V Final Report. August 2021. *https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v*.

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Freon 11	X						X	X	X	X	
Freon 113	X						X	X	X	X	X
Freon 12	X						X	X	X	X	X
m/p-Xylene	X										
o-Xylene	X										
Perchloroethylene	X						X	X	X	X	X
Styrene	X										
Toluene	X						X	X	X	X	X
Trans-1,3-Dichloropropene	X										
Trichloroethylene	X										
Vinyl Chloride	X										
Aluminum		X					X	X	X	X	
Antimony		X					X	X			
Arsenic		X					X	X	X	X	X
Barium		X					X	X	X	X	
Bromine		X					X	X	X	X	
Calcium		X					X	X	X	X	
Chlorine		X					X	X	X	X	
Chromium*		X					X	X	X	X	XX
Cobalt		X									
Copper		X					X	X	X	X	X
Iron		X					X	X	X	X	
Lead		X					X	X	X	X	
Manganese		X					X	X	X	X	X
Mercury		X					X	X			

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Molybdenum		X									
Nickel		X					X	X	X	X	X
Phosphorus		X					X	X	X	X	
Potassium		X					X	X	X	X	
Rubidium		X					X	X	X	X	
Selenium		X					X	X	X	X	
Silicon		X					X	X	X	X	
Strontium		X					X	X	X	X	
Sulfur		X					X	X	X	X	
Tin		X					X	X	X	X	
Titanium		X					X	X	X	X	
Vanadium		X					X	X	X	X	X
Yttrium		X									
Zinc		X					X	X	X	X	X
Acetaldehyde			X				X	X	X	X	X
Formaldehyde			X				X	X	X	X	X
Hexaldehyde			X								
Methyl Ethyl Ketone			X				X	X	X	X	X
n-Butyraldehyde			X								
Propionaldehyde			X				X	X	X	X	
2,5-Dimethylthiophene				X							
2-Ethylthiophene				X							
3-Methyl Thiophene				X							
Carbon Disulfide				X			X	X	X	X	X
Carbonyl Sulfide				X			X	X	X	X	

All results presented in this update are preliminary and subject to change.

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Diethyl Disulfide				X							
Diethyl Sulfide				X							
Dimethyl Disulfide				X							
Dimethyl Sulfide				X			X		X		
Ethyl Mercaptan				X							
Ethyl Methyl Sulfide				X							
Hydrogen Sulfide				X			X	X	X	X	
Isobutyl Mercaptan				X							
Isopropyl Mercaptan				X							
Methyl Mercaptan				X							
n-Butyl Mercaptan				X							
n-Propyl Mercaptan				X							
tert-Butyl Mercaptan				X							
Tetrahydrothiophene				X							
Thiophene				X							
1,2,4,5-Tetrachlorobenzene	X										
1,2,4-Trichlorobenzene	X										
1,2-Dichlorobenzene	X										
1,3,5-Trinitrobenzene	X										
1,3-Dichlorobenzene	X										
1,4-Dichlorobenzene	X						X	X	X	X	
2,3,4,6-Tetrachlorophenol	X										
2,4,5-Trichlorophenol	X										
2,4,6-Trichlorophenol	X										
2,4-Dichlorophenol	X										

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
2,4-Dimethylphenol	X										
2,4-Dinitrophenol	X						X	X	X	X	
2,4-Dinitrotoluene	X										
2,6-Dichlorophenol	X										
2,6-Dinitrotoluene	X						X	X			
2-Acetylaminofluorene	X										
2-Chloronaphthalene	X										
2-Chlorophenol	X										
2-Methyl-4,6-Dinitrophenol	X						X	X	X	X	
2-Methylnaphthalene	X				X	X	X	X	X	X	X
2-Methylphenol	X										
2-Nitroaniline	X										
2-Nitrophenol	X						X	X	X	X	
3-Methylcholanthrene	X										
3-Nitroaniline	X										
4-Aminobiphenyl	X										
4-Bromophenyl Phenyl Ether	X										
4-Chloro-3-Methylphenol	X										
4-Chloroaniline	X										
4-Chlorophenyl Phenyl Ether	X										
4-Methylphenol&3-Methylphenol	X						X	X	X	X	
4-Nitroaniline	X										
4-Nitrophenol	X										
5-Nitro-O-Toluidine	X										

All results presented in this update are preliminary and subject to change.

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
7,12-Dimethylbenz(a)anthracene	X				X	X					
Acenaphthene	X				X	X					
Acenaphthylene	X				X	X					
Acetophenone	X						X	X	X	X	
Aniline	X						X	X	X	X	
Anthracene	X				X	X					
Azobenzene	X										
Benz(a)anthracene	X				X	X					
Benzo(a)pyrene	X				X	X					
Benzo(a)fluoranthene	X				X	X					
Benzo(g,h,i)perylene	X				X	X					
Benzo(k)fluoranthene	X				X	X					
Benzyl Alcohol	X						X	X	X	X	
Bis(2-Chloroethoxy)Methane	X						X	X	X	X	
Bis(2-Chloroethyl)Ether	X										
Bis(2-Chloroisopropyl)Ether	X										
Bis(2-Ethylhexyl)Phthalate	X						X	X	X	X	X
Butyl Benzyl Phthalate	X										
Carbazole	X										
Chrysene	X				X	X					
Dibenz(a,h)anthracene	X				X	X					
Dibenzofuran	X						X		X		
Diethyl Phthalate	X						X	X	X	X	
Dimethyl Phthalate	X						X	X	X	X	

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Di-N-Butyl Phthalate	X						X	X	X	X	
Di-N-Octyl Phthalate	X						X		X		
Dinoseb	X						X	X	X	X	
Diphenylamine	X										
Ethyl Methanesulfonate	X						X	X			
Fluoranthene	X				X	X					
Fluorene	X				X	X					
Hexachlorobenzene	X										
Hexachlorobutadiene	X										
Hexachlorocyclopentadiene	X										
Hexachloroethane	X										
Hexachloropropene	X										
Indeno(1,2,3-cd)pyrene	X				X	X					
Isophorone	X										
Isosafrole	X										
M-Dinitrobenzene	X										
Methyl Methanesulfonate	X										
Naphthalene	X				X	X	X	X	X	X	X
Nitrobenzene	X										
N-Nitrosodiethylamine	X										
N-Nitrosodimethylamine	X						X	X	X	X	
N-Nitrosodi-N-Butylamine	X						X	X	X	X	
N-Nitrosodi-N-Propylamine	X						X		X		
N-Nitrosomethylethylamine	X										
N-Nitrosomorpholine	X										

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
N-Nitrosopiperidine	X						X		X		
N-Nitrosopyrrolidine	X										
O-Toluidine	X										
P-(Dimethylamino)Azobenzene	X										
Pentachlorobenzene	X										
Pentachloroethane	X										
Pentachloronitrobenzene	X										
Pentachlorophenol	X						X		X		
Phenacetin	X										
Phenanthrene	X				X	X	X	X	X	X	
Phenol	X						X	X	X	X	X
Pyrene	X										
2-Methylnaphthalene					X	X	X	X	X	X	X
Acenaphthene					X	X	X	X	X	X	
Acenaphthylene					X	X					
Anthracene					X	X	X	X			
Benz(a)anthracene					X	X					
Benzo(a)pyrene					X	X					
Benzo(b)fluoranthene					X	X					
Benzo(g,h,i)perylene					X	X	X	X			
Benzo(k)fluoranthene					X	X					
Chrysene					X	X					
Dibenz(a,h)anthracene					X	X	X	X			
Fluoranthene					X	X	X	X	X	X	
Fluorene					X	X	X	X	X	X	

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Indeno(1,2,3-cd)pyrene					X	X	X	X			
Naphthalene					X	X	X	X	X	X	X
Phenanthrene					X	X	X	X	X	X	
Pyrene					X	X	X	X			

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Figure A1. Chemicals detected, not detected, and not sampled using VOC analytical chemistry method (MLD072) from SNAPS discrete monitoring analysis (February 2024-June 2024).

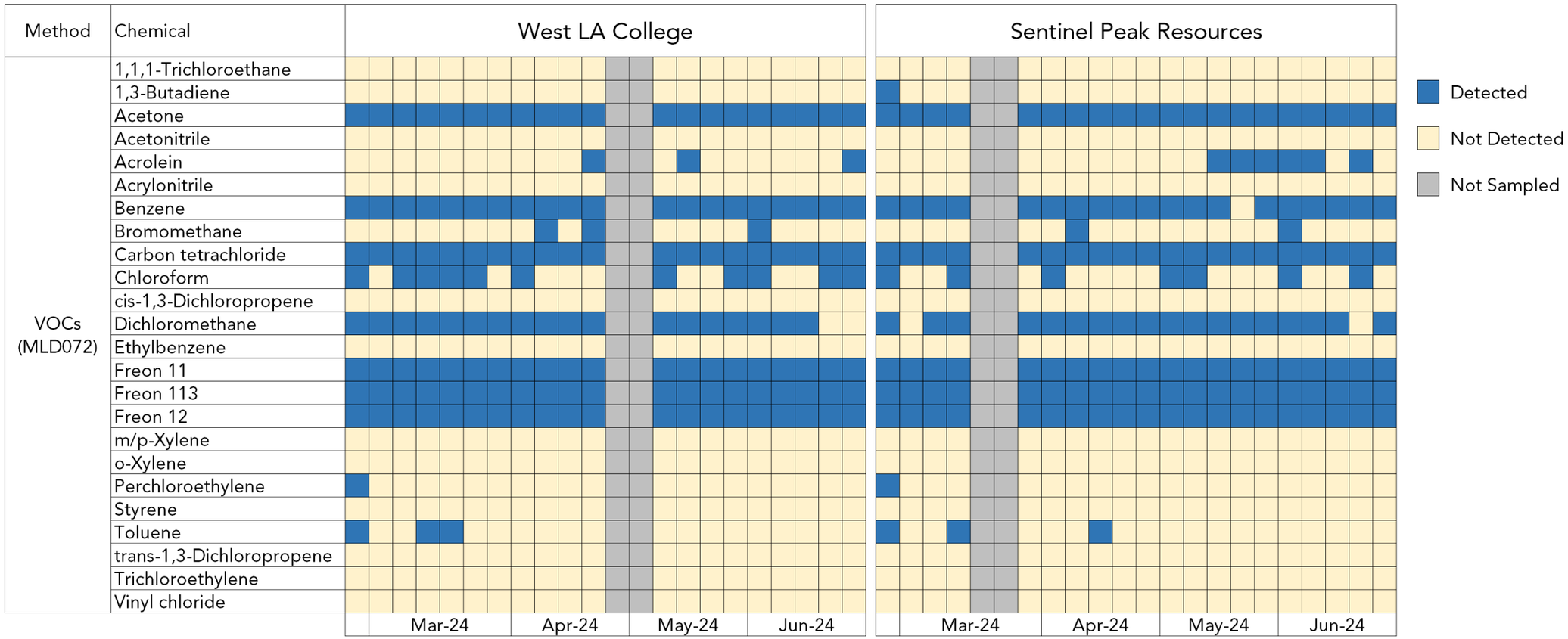
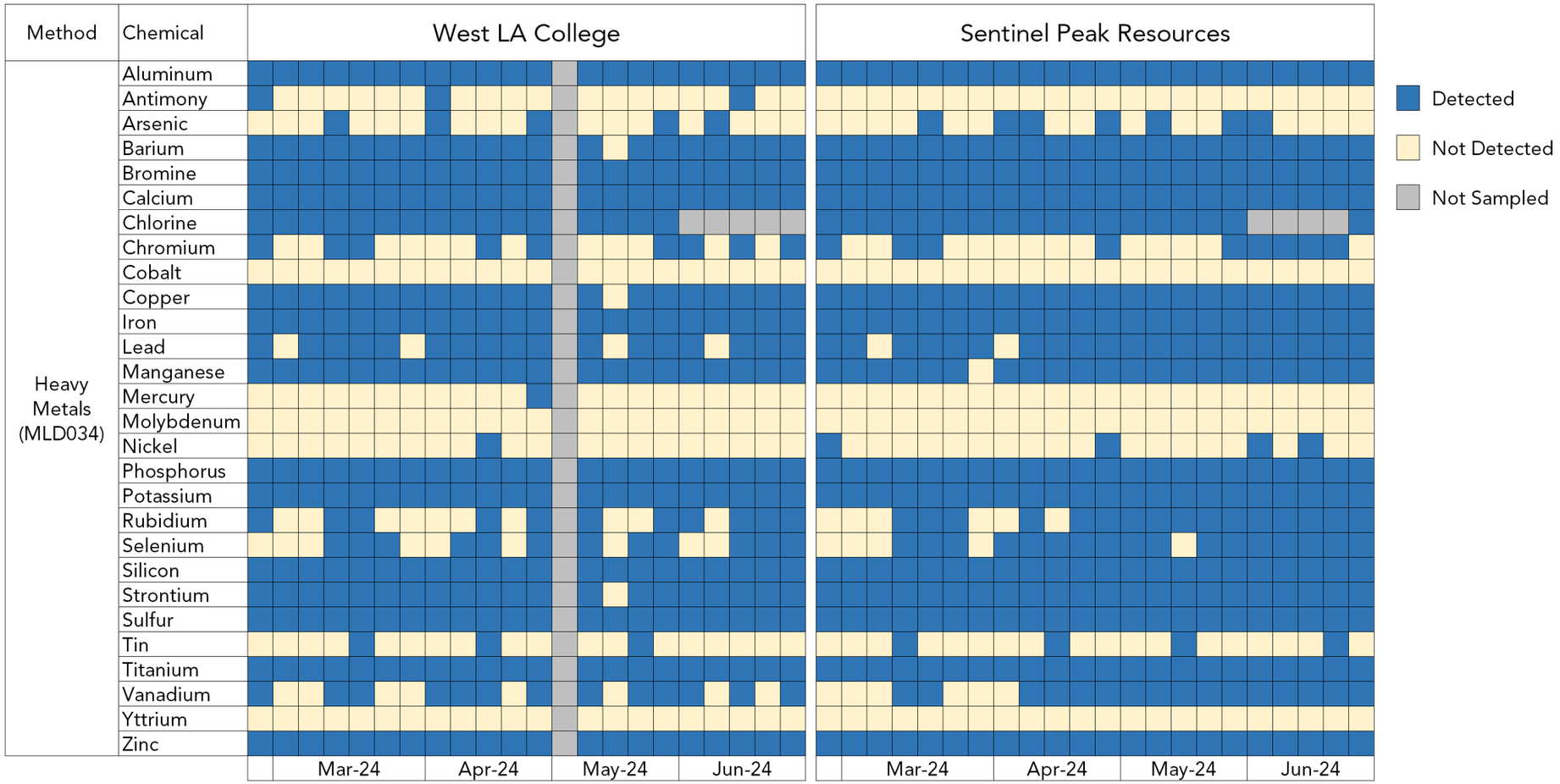


Figure A2. Chemicals detected, not detected, and not sampled using metal analytical chemistry method (MLD034) from SNAPS discrete monitoring analysis (February 2024-June 2024).



All results presented in this update are preliminary and subject to change.

Figure A3. Chemicals detected, not detected, and not sampled using aldehyde and ketone analytical chemistry method (MLD022) from SNAPS discrete monitoring analysis (February 2024-June 2024).

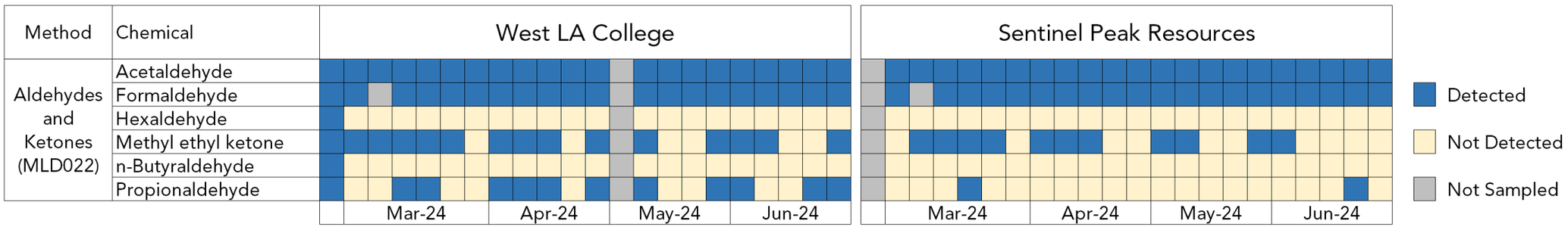


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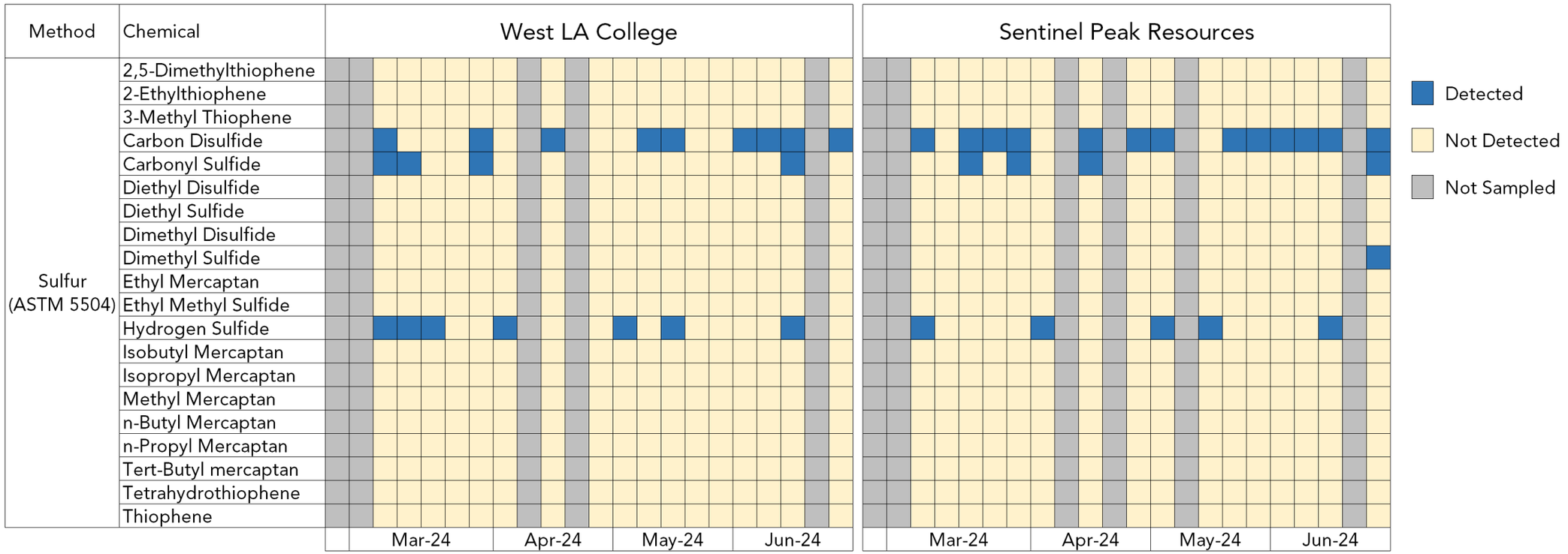
Figure A4. Chemicals detected, not detected, and not sampled using sulfur analytical chemistry method (ASTM 5504) from SNAPS discrete monitoring analysis (February 2024-June 2024).



All results presented in this update are preliminary and subject to change.

Figure A5. Chemicals detected, not detected, and not sampled using VOC and SVOC analytical chemistry method (EPA 8270) from SNAPS discrete monitoring analysis (February 2024-June 2024).

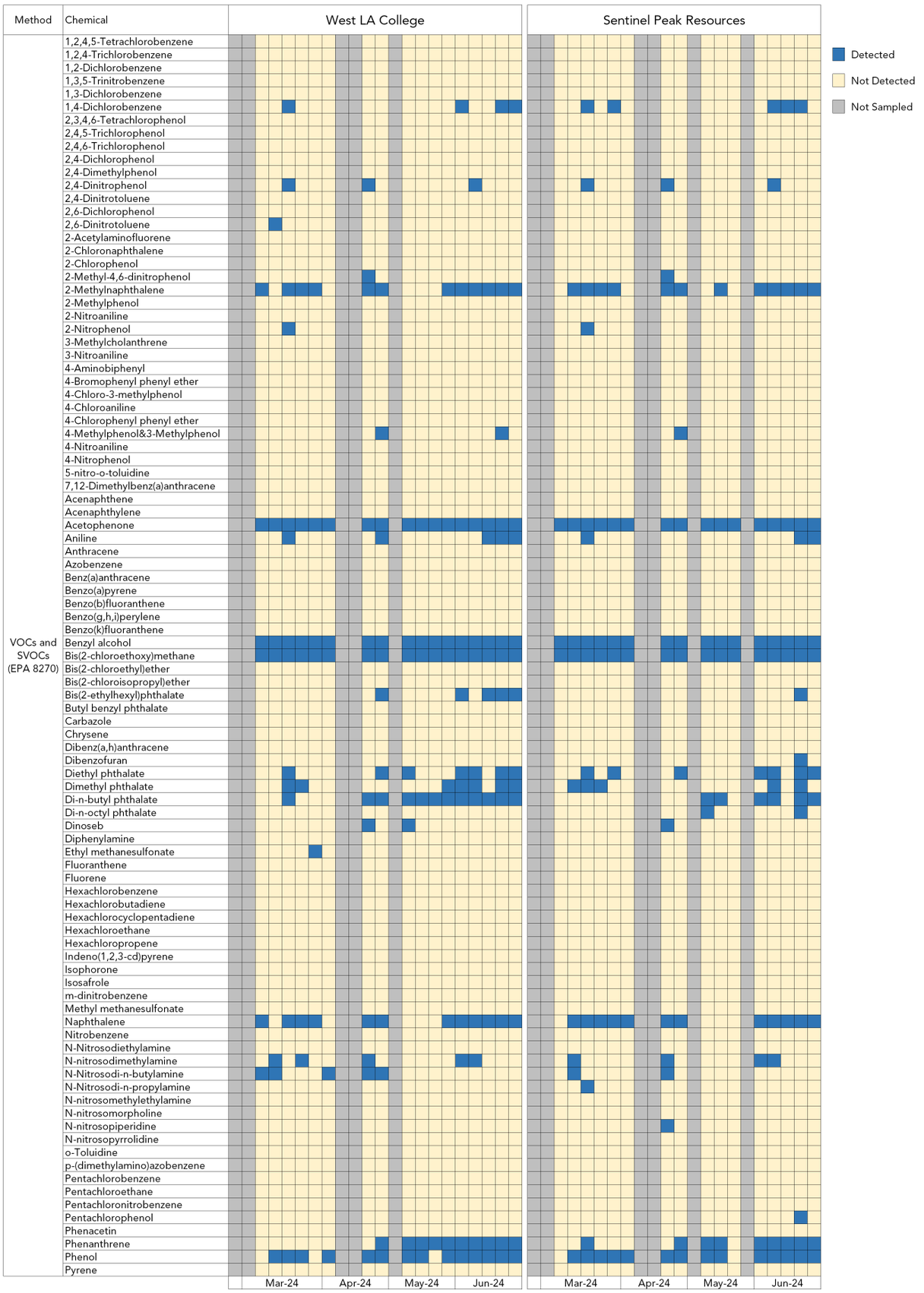
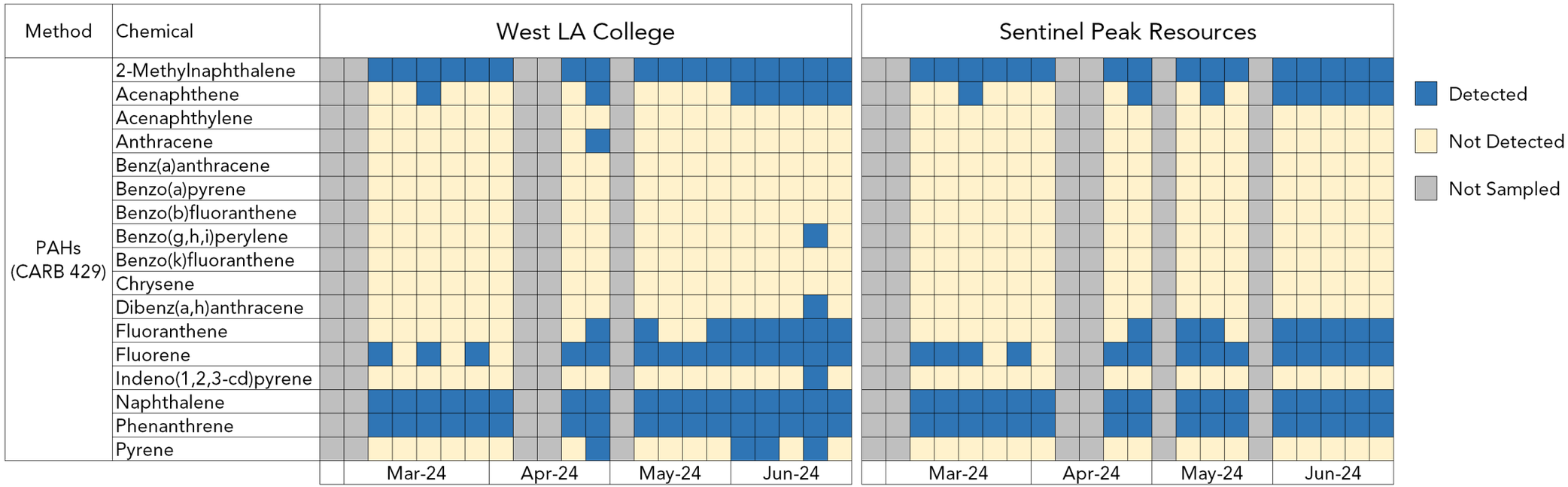


Figure A6. Chemicals detected, not detected, and not sampled using PAH analytical chemistry method (CARB 429) from SNAPS discrete monitoring analysis (February 2024-June 2024).



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References

1. California Air Resources Board. SNAPS Lost Hills Draft Final Report. Updated January 2024. *https://ww2.arb.ca.gov/resources/documents/snaps-lost-hills-draft-final-report*.
2. South Coast Air Monitoring District. Multiple Air Toxics Exposure Study (MATES) V Final Report. August 2021. *https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v*.