



2017 NEI Final Plan, Appendix 5: Potential Business Rules - Selecting Data With Overlapping Pollutants Across Different Datasets

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Pollutants Across Different Datasets

U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Air Quality Assessment Division
Research Triangle Park, NC

POTENTIAL BUSINESS RULES
SELECTING DATA WITH OVERLAPPING POLLUTANTS ACROSS DIFFERENT DATASETS

These business rules are developed to allow different datasets included in a selection to be blended together in a way that avoids double counting due to overlapping pollutants. Because there are several HAPs that belong to pollutant groups or represent a pollutant group themselves, these rules are needed to prevent both a group and individual pollutant in that group from being used for the same process or facility. The implementation of these rules will be automated in the EIS. The tables for each item below detail how the pollutants will be selected or ignored across datasets in EIS. Pollutant names are presented in the tables for clarity of the rule, but these will be implemented using pollutant codes (instead of names).

EIS will not select data from the lower-hierarchy dataset (in a selection) where:

1. Lower-hierarchy dataset pollutant matches any pollutant in higher-priority dataset at the same facility (Point), process (all other data categories)
2. Xylenes
 - a. Higher-priority dataset pollutant is Xylenes (Mixed Isomers) (1330207) and lower-priority dataset pollutant is any individual pollutant in the xylenes pollutant category.
 - b. Higher-priority dataset pollutant is any individual pollutant in the xylenes pollutant category and lower-priority dataset is Xylenes (Mixed Isomers) (1330207)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Xylenes (Mixed Isomers)	p-Xylene
Xylenes (Mixed Isomers)	o-Xylene
Xylenes (Mixed Isomers)	m-Xylene
p-Xylene	Xylenes (Mixed Isomers)
o-Xylene	Xylenes (Mixed Isomers)
m-Xylene	Xylenes (Mixed Isomers)

Within Agency dataset rule: same

3. Cresols
 - a. Higher-priority dataset pollutant is Cresol/Cresylic Acid (Mixed Isomers) (1319773) and lower-priority dataset pollutant is any individual pollutant in the Cresol/Cresylic Acid (Mixed Isomers) pollutant category.
 - b. Higher-priority dataset pollutant is any individual pollutant in Cresol/Cresylic Acid (Mixed Isomers) pollutant category and lower-priority dataset pollutant is Cresol/Cresylic Acid (Mixed Isomers)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Cresol/Cresylic Acid (Mixed Isomers)	p-Cresol
Cresol/Cresylic Acid (Mixed Isomers)	m-Cresol
Cresol/Cresylic Acid (Mixed Isomers)	o-Cresol
p-Cresol	Cresol/Cresylic Acid (Mixed Isomers)
m-Cresol	Cresol/Cresylic Acid (Mixed Isomers)
o-Cresol	Cresol/Cresylic Acid (Mixed Isomers)

Within Agency dataset rule: same

4. PCBs

- a. Higher-priority dataset pollutant is Polychlorinated biphenyls (PCBs) (1336363) and lower-priority dataset pollutant is any individual pollutant in the polychlorinated biphenyls group.
- b. Higher-priority dataset pollutant is any individual pollutant in the polychlorinated biphenyls group and lower-priority dataset pollutant is 1336363 (Polychlorinated biphenyls (PCBs)).

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Polychlorinated Biphenyls	2,4,4'-Trichlorobiphenyl (PCB-28)
Polychlorinated Biphenyls	2-Chlorobiphenyl (PCB-1)
Polychlorinated Biphenyls	4,4'-Dichlorobiphenyl (PCB-15)
Polychlorinated Biphenyls	Decachlorobiphenyl (PCB-209)
Polychlorinated Biphenyls	Heptachlorobiphenyl
Polychlorinated Biphenyls	Hexachlorobiphenyl
Polychlorinated Biphenyls	Nonachlorobiphenyl
Polychlorinated Biphenyls	Octachlorobiphenyl
Polychlorinated Biphenyls	Pentachlorobiphenyl
Polychlorinated Biphenyls	Tetrachlorobiphenyl
2,4,4'-Trichlorobiphenyl (PCB-28)	Polychlorinated Biphenyls
2-Chlorobiphenyl (PCB-1)	Polychlorinated Biphenyls
4,4'-Dichlorobiphenyl (PCB-15)	Polychlorinated Biphenyls
Decachlorobiphenyl (PCB-209)	Polychlorinated Biphenyls
Heptachlorobiphenyl	Polychlorinated Biphenyls
Hexachlorobiphenyl	Polychlorinated Biphenyls
Nonachlorobiphenyl	Polychlorinated Biphenyls
Octachlorobiphenyl	Polychlorinated Biphenyls
Pentachlorobiphenyl	Polychlorinated Biphenyls
Tetrachlorobiphenyl	Polychlorinated Biphenyls

Within Agency dataset rule: same

5. Glycol ethers:

- a. Higher-priority dataset pollutant is Glycol Ethers (171) and lower-priority dataset pollutant is any individual pollutant in the glycol ethers group.
- b. Higher-priority dataset pollutant is any pollutant in the glycol ethers group and lower-priority dataset pollutant is Glycol Ethers (171)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Glycol Ethers	Diethylene Glycol Ethyl Methyl Ether
Glycol Ethers	Ethyleneglycol Mono-2-Methylpentyl Ether
Glycol Ethers	Diethyleneglycol-Mono-2-Methyl-Pentyl Ether
Glycol Ethers	Ethylene Glycol Methyl Ether
Glycol Ethers	Ethylene Glycol Monomethyl Ether Acetate
Glycol Ethers	1,2-Dimethoxyethane

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Glycol Ethers	Cellosolve Solvent
Glycol Ethers	Methoxyethyl Oleate
Glycol Ethers	Cellosolve Acetate
Glycol Ethers	Diethylene Glycol Monomethyl Ether
Glycol Ethers	Diethylene Glycol Monoethyl Ether
Glycol Ethers	Diethylene Glycol Dimethyl Ether
Glycol Ethers	2-Butoxyethyl Acetate
Glycol Ethers	Carbitol Acetate
Glycol Ethers	2-(Hexyloxy)Ethanol
Glycol Ethers	Diethylene Glycol Monobutyl Ether
Glycol Ethers	Methoxytriglycol
Glycol Ethers	Diethylene Glycol Diethyl Ether
Glycol Ethers	Triethylene Glycol Dimethyl Ether
Glycol Ethers	Ethoxytriglycol
Glycol Ethers	N-Hexyl Carbitol
Glycol Ethers	Phenyl Cellosolve
Glycol Ethers	Butyl Carbitol Acetate
Glycol Ethers	Methyl Cellosolve Acetylricinoleate
Glycol Ethers	Triglycol Monobutyl Ether
Glycol Ethers	Diethylene Glycol Monoisobutyl Ether
Glycol Ethers	2-Propoxyethyl Acetate
Glycol Ethers	Ethyleneglycol Monophenyl Ether Propionate
Glycol Ethers	Propyl Cellosolve
Glycol Ethers	Methyl Cellosolve Acrylate
Glycol Ethers	Isobutyl Cellosolve
Glycol Ethers	Ethylene Glycol Monobenzyl Ether
Glycol Ethers	Ethylene Glycol Diethyl Ether
Glycol Ethers	Ethylene Glycol Mono-Sec-Butyl Ether
Diethylene Glycol Ethyl Methyl Ether	Glycol Ethers
Ethyleneglycol Mono-2-Methylpentyl Ether	Glycol Ethers
Diethyleneglycol-Mono-2-Methyl-Pentyl Ether	Glycol Ethers
Ethylene Glycol Methyl Ether	Glycol Ethers
Ethylene Glycol Monomethyl Ether Acetate	Glycol Ethers
1,2-Dimethoxyethane	Glycol Ethers
Cellosolve Solvent	Glycol Ethers
Methoxyethyl Oleate	Glycol Ethers
Cellosolve Acetate	Glycol Ethers
Diethylene Glycol Monomethyl Ether	Glycol Ethers
Diethylene Glycol Monoethyl Ether	Glycol Ethers
Diethylene Glycol Dimethyl Ether	Glycol Ethers
2-Butoxyethyl Acetate	Glycol Ethers
Carbitol Acetate	Glycol Ethers
2-(Hexyloxy)Ethanol	Glycol Ethers
Diethylene Glycol Monobutyl Ether	Glycol Ethers
Methoxytriglycol	Glycol Ethers

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Diethylene Glycol Diethyl Ether	Glycol Ethers
Triethylene Glycol Dimethyl Ether	Glycol Ethers
Ethoxytriglycol	Glycol Ethers
N-Hexyl Carbitol	Glycol Ethers
Phenyl Cellosolve	Glycol Ethers
Butyl Carbitol Acetate	Glycol Ethers
Methyl Cellosolve Acetylricinoleate	Glycol Ethers
Triglycol Monobutyl Ether	Glycol Ethers
Diethylene Glycol Monoisobutyl Ether	Glycol Ethers
2-Propoxyethyl Acetate	Glycol Ethers
Ethyleneglycol Monophenyl Ether Propionate	Glycol Ethers
Propyl Cellosolve	Glycol Ethers
Methyl Cellosolve Acrylate	Glycol Ethers
Isobutyl Cellosolve	Glycol Ethers
Ethylene Glycol Monobenzyl Ether	Glycol Ethers
Ethylene Glycol Diethyl Ether	Glycol Ethers
Ethylene Glycol Mono-Sec-Butyl Ether	Glycol Ethers

Within Agency dataset rule: same

6. Chromium

- a. Higher-priority dataset pollutant is Chromium Trioxide or Chromic Acid (VI) and lower-priority dataset pollutant is hexavalent chromium
- b. Higher-priority dataset pollutant is hexavalent chromium and lower-priority dataset pollutant is Chromium Trioxide or Chromic Acid (VI)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Chromium Trioxide	Chromium (VI)
Chromic Acid (VI)	Chromium (VI)
Chromium (VI)	Chromium Trioxide
Chromium (VI)	Chromic Acid (VI)

Within Agency dataset rule: NOT the same. We allow Agencies to report chromium trioxide with chromium VI as we told them we assume that they are different compounds and do not overlap. We allow them to report Chromic Acid (VI) with chromium VI as we told them we assume that they are different compounds and do not overlap. We cannot make that assumption across datasets since we don't have that information.

7. Nickel

- a. Higher-priority dataset pollutant is Nickel Sulfide or Nickel Oxide or Nickel Refinery Dust and lower-priority dataset pollutant is Nickel.
- b. Higher-priority dataset pollutant is Nickel and lower-priority dataset pollutant is Nickel Sulfide or Nickel Oxide or Nickel Refinery Dust

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Nickel Sub sulfide	Nickel
Nickel Oxide	Nickel
Nickel Refinery Dust	Nickel
Nickel	Nickel Sub sulfide
Nickel	Nickel Oxide
Nickel	Nickel Refinery Dust

Within Agency dataset rule: NOT the same. We allow Agencies to report Nickel Sub sulfide with nickel as we told them we assume that they are different compounds and do not overlap. Same for nickel oxide and nickel refinery dust. We cannot make that assumption across datasets since we don't have that information.

8. PAHs

Notes- under these rules, if there is more complete coverage of PAHs in a lower priority data set, they may not get used depending on their overlap with the higher priority dataset (e.g., a state reports benzo(a)pyrene but a lower priority dataset has total PAH. The NEI will see only benzo(a)pyrene.

- a. Higher-priority dataset pollutant is Benzofluoranthenes (56832736) and lower-priority dataset pollutant is any individual benzofluoranthene
- b. Higher-priority dataset pollutant is any individual benzofluoranthene and lower-priority dataset is Benzofluoranthenes (56832736)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Benzofluoranthenes	Benzo(g,h,i)Fluoranthene
Benzofluoranthenes	Benzo(a)Fluoranthene
Benzofluoranthenes	Benzo[j]fluoranthene
Benzofluoranthenes	Benzo[b]Fluoranthene
Benzofluoranthenes	Benzo[k]Fluoranthene
Benzo(g,h,i)Fluoranthene	Benzofluoranthenes
Benzo(a)Fluoranthene	Benzofluoranthenes
Benzo[j]fluoranthene	Benzofluoranthenes
Benzo[b]Fluoranthene	Benzofluoranthenes
Benzo[k]Fluoranthene	Benzofluoranthenes

Within Agency dataset rule: should be changed to be the same. As of 8/10/2018, it is not the same.

- c. Higher-priority dataset pollutant is any individual known PAH and lower-priority dataset pollutant is 130498292 (PAH,total), 250 (PAH/POM - Unspecified) or 284 (Extractable Organic Matter)

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Anthracene	PAH,total
Pyrene	PAH,total
PAH, total	PAH,total
Dibenzo[a,i]Pyrene	PAH,total
Dibenzo[a,h]Pyrene	PAH,total
Benzo[g,h,i,]Perylene	PAH,total

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Dibenzo[a,l]Pyrene	PAH,total
Dibenzo[a,e]Pyrene	PAH,total
Benzo[e]Pyrene	PAH,total
Indeno[1,2,3-c,d]Pyrene	PAH,total
7H-Dibenzo[c,g]carbazole	PAH,total
Benzo(c)phenanthrene	PAH,total
Perylene	PAH,total
Benzo(g,h,i)Fluoranthene	PAH,total
Benzo(a)Fluoranthene	PAH,total
Benzo[j]fluoranthene	PAH,total
Benzo[b]Fluoranthene	PAH,total
Fluoranthene	PAH,total
Benzo[k]Fluoranthene	PAH,total
Acenaphthylene	PAH,total
Chrysene	PAH,total
Dibenzo[a,j]Acridine	PAH,total
Dibenz[a,h]acridine	PAH,total
1-Methylpyrene	PAH,total
12-Methylbenz(a)Anthracene	PAH,total
PAH/POM - Unspecified	PAH,total
2-Methylphenanthrene	PAH,total
Methylanthracene	PAH,total
5-Methylchrysene	PAH,total
Methylchrysene	PAH,total
1,6-Dinitropyrene	PAH,total
1,8-Dinitropyrene	PAH,total
Benzo[a]Pyrene	PAH,total
Dibenzo[a,h]Anthracene	PAH,total
1-Nitropyrene	PAH,total
3-Methylcholanthrene	PAH,total
Benz[a]Anthracene	PAH,total
Benzo[fluoranthenes	PAH,total
4-Nitropyrene	PAH,total
7,12-Dimethylbenz[a]Anthracene	PAH,total
5-Nitroacenaphthene	PAH,total
2-Nitrofluorene	PAH,total
Methylbenzopyrene	PAH,total
6-Nitrochrysene	PAH,total
9-Methyl Anthracene	PAH,total
Coal Tar	PAH,total
1-Methylphenanthrene	PAH,total
Acenaphthene	PAH,total
Phenanthrene	PAH,total
Fluorene	PAH,total
Carbazole	PAH,total

If this is in Higher Level Dataset	DO NOT USE lower level dataset
1-Methylnaphthalene	PAH,total
2-Methylnaphthalene	PAH,total
2-Chloronaphthalene	PAH,total
Anthracene	PAH/POM - Unspecified
Pyrene	PAH/POM - Unspecified
PAH, total	PAH/POM - Unspecified
Dibenzo[a,i]Pyrene	PAH/POM - Unspecified
Dibenzo[a,h]Pyrene	PAH/POM - Unspecified
Benzo[g,h,i]Perylene	PAH/POM - Unspecified
Dibenzo[a,l]Pyrene	PAH/POM - Unspecified
Dibenzo[a,e]Pyrene	PAH/POM - Unspecified
Benzo[e]Pyrene	PAH/POM - Unspecified
Indeno[1,2,3-c,d]Pyrene	PAH/POM - Unspecified
7H-Dibenzo[c,g]carbazole	PAH/POM - Unspecified
Benzo(c)phenanthrene	PAH/POM - Unspecified
Perylene	PAH/POM - Unspecified
Benzo(g,h,i)Fluoranthene	PAH/POM - Unspecified
Benzo(a)Fluoranthene	PAH/POM - Unspecified
Benzo[j]fluoranthene	PAH/POM - Unspecified
Benzo[b]Fluoranthene	PAH/POM - Unspecified
Fluoranthene	PAH/POM - Unspecified
Benzo[k]Fluoranthene	PAH/POM - Unspecified
Acenaphthylene	PAH/POM - Unspecified
Chrysene	PAH/POM - Unspecified
Dibenzo[a,j]Acridine	PAH/POM - Unspecified
Dibenz[a,h]acridine	PAH/POM - Unspecified
1-Methylpyrene	PAH/POM - Unspecified
12-Methylbenz(a)Anthracene	PAH/POM - Unspecified
PAH/POM - Unspecified	PAH/POM - Unspecified
2-Methylphenanthrene	PAH/POM - Unspecified
Methylanthracene	PAH/POM - Unspecified
5-Methylchrysene	PAH/POM - Unspecified
Methylchrysene	PAH/POM - Unspecified
1,6-Dinitropyrene	PAH/POM - Unspecified
1,8-Dinitropyrene	PAH/POM - Unspecified
Benzo[a]Pyrene	PAH/POM - Unspecified
Dibenzo[a,h]Anthracene	PAH/POM - Unspecified
1-Nitropyrene	PAH/POM - Unspecified
3-Methylcholanthrene	PAH/POM - Unspecified
Benz[a]Anthracene	PAH/POM - Unspecified
Benzofluoranthenes	PAH/POM - Unspecified
4-Nitropyrene	PAH/POM - Unspecified
7,12-Dimethylbenz[a]Anthracene	PAH/POM - Unspecified
5-Nitroacenaphthene	PAH/POM - Unspecified
2-Nitrofluorene	PAH/POM - Unspecified

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Methylbenzopyrene	PAH/POM - Unspecified
6-Nitrochrysene	PAH/POM - Unspecified
9-Methyl Anthracene	PAH/POM - Unspecified
Coal Tar	PAH/POM - Unspecified
1-Methylphenanthrene	PAH/POM - Unspecified
Acenaphthene	PAH/POM - Unspecified
Phenanthrene	PAH/POM - Unspecified
Fluorene	PAH/POM - Unspecified
Carbazole	PAH/POM - Unspecified
1-Methylnaphthalene	PAH/POM - Unspecified
2-Methylnaphthalene	PAH/POM - Unspecified
2-Chloronaphthalene	PAH/POM - Unspecified
Anthracene	Extractable Organic Matter
Pyrene	Extractable Organic Matter
PAH, total	Extractable Organic Matter
Dibenzo[a,i]Pyrene	Extractable Organic Matter
Dibenzo[a,h]Pyrene	Extractable Organic Matter
Benzo[g,h,i]Perylene	Extractable Organic Matter
Dibenzo[a,l]Pyrene	Extractable Organic Matter
Dibenzo[a,e]Pyrene	Extractable Organic Matter
Benzo[e]Pyrene	Extractable Organic Matter
Indeno[1,2,3-c,d]Pyrene	Extractable Organic Matter
7H-Dibenzo[c,g]carbazole	Extractable Organic Matter
Benzo(c)phenanthrene	Extractable Organic Matter
Perylene	Extractable Organic Matter
Benzo(g,h,i)Fluoranthene	Extractable Organic Matter
Benzo(a)Fluoranthene	Extractable Organic Matter
Benzo[j]fluoranthene	Extractable Organic Matter
Benzo[b]Fluoranthene	Extractable Organic Matter
Fluoranthene	Extractable Organic Matter
Benzo[k]Fluoranthene	Extractable Organic Matter
Acenaphthylene	Extractable Organic Matter
Chrysene	Extractable Organic Matter
Dibenzo[a,j]Acridine	Extractable Organic Matter
Dibenz[a,h]acridine	Extractable Organic Matter
1-Methylpyrene	Extractable Organic Matter
12-Methylbenz(a)Anthracene	Extractable Organic Matter
PAH/POM - Unspecified	Extractable Organic Matter
2-Methylphenanthrene	Extractable Organic Matter
Methylantracene	Extractable Organic Matter
5-Methylchrysene	Extractable Organic Matter
Methylchrysene	Extractable Organic Matter
1,6-Dinitropyrene	Extractable Organic Matter
1,8-Dinitropyrene	Extractable Organic Matter
Benzo[a]Pyrene	Extractable Organic Matter

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Dibenzo[a,h]Anthracene	Extractable Organic Matter
1-Nitropyrene	Extractable Organic Matter
3-Methylcholanthrene	Extractable Organic Matter
Benz[a]Anthracene	Extractable Organic Matter
Benzofluoranthenes	Extractable Organic Matter
4-Nitropyrene	Extractable Organic Matter
7,12-Dimethylbenz[a]Anthracene	Extractable Organic Matter
5-Nitroacenaphthene	Extractable Organic Matter
2-Nitrofluorene	Extractable Organic Matter
Methylbenzopyrene	Extractable Organic Matter
6-Nitrochrysene	Extractable Organic Matter
9-Methyl Anthracene	Extractable Organic Matter
Coal Tar	Extractable Organic Matter
1-Methylphenanthrene	Extractable Organic Matter
Acenaphthene	Extractable Organic Matter
Phenanthrene	Extractable Organic Matter
Fluorene	Extractable Organic Matter
Carbazole	Extractable Organic Matter
1-Methylnaphthalene	Extractable Organic Matter
2-Methylnaphthalene	Extractable Organic Matter
2-Chloronaphthalene	Extractable Organic Matter

Within Agency dataset rule: NOT the same. We allow 250 to be reported with any specified PAH except PAH, total. We allow Extractable Organic Matter to be reported with 250 within an agency dataset.

- d. Higher-priority dataset pollutant is 130498292 (PAH,total) or 250 (PAH/POM - Unspecified) or 284 (Extractable Organic Matter) and lower-priority dataset poll is any individual known PAH

If this is in Higher Level Dataset	DO NOT USE lower level dataset
PAH,total	Anthracene
PAH,total	Pyrene
PAH,total	PAH, total
PAH,total	Dibenzo[a,i]Pyrene
PAH,total	Dibenzo[a,h]Pyrene
PAH,total	Benzo[g,h,i]Perylene
PAH,total	Dibenzo[a,l]Pyrene
PAH,total	Dibenzo[a,e]Pyrene
PAH,total	Benzo[e]Pyrene
PAH,total	Indeno[1,2,3-c,d]Pyrene
PAH,total	7H-Dibenzo[c,g]carbazole
PAH,total	Benzo(c)phenanthrene
PAH,total	Perylene
PAH,total	Benzo(g,h,i)Fluoranthene
PAH,total	Benzo(a)Fluoranthene
PAH,total	Benzo[j]fluoranthene

If this is in Higher Level Dataset	DO NOT USE lower level dataset
PAH,total	Benzo[b]Fluoranthene
PAH,total	Fluoranthene
PAH,total	Benzo[k]Fluoranthene
PAH,total	Acenaphthylene
PAH,total	Chrysene
PAH,total	Dibenzo[a,j]Acridine
PAH,total	Dibenz[a,h]acridine
PAH,total	1-Methylpyrene
PAH,total	12-Methylbenz(a)Anthracene
PAH,total	PAH/POM - Unspecified
PAH,total	2-Methylphenanthrene
PAH,total	Methylanthracene
PAH,total	5-Methylchrysene
PAH,total	Methylchrysene
PAH,total	1,6-Dinitropyrene
PAH,total	1,8-Dinitropyrene
PAH,total	Benzo[a]Pyrene
PAH,total	Dibenzo[a,h]Anthracene
PAH,total	1-Nitropyrene
PAH,total	3-Methylcholanthrene
PAH,total	Benz[a]Anthracene
PAH,total	Benzo[fluoranthenes
PAH,total	4-Nitropyrene
PAH,total	7,12-Dimethylbenz[a]Anthracene
PAH,total	5-Nitroacenaphthene
PAH,total	2-Nitrofluorene
PAH,total	Methylbenzopyrene
PAH,total	6-Nitrochrysene
PAH,total	9-Methyl Anthracene
PAH,total	Coal Tar
PAH,total	1-Methylphenanthrene
PAH,total	Acenaphthene
PAH,total	Phenanthrene
PAH,total	Fluorene
PAH,total	Carbazole
PAH,total	1-Methylnaphthalene
PAH,total	2-Methylnaphthalene
PAH,total	2-Chloronaphthalene
PAH/POM - Unspecified	Anthracene
PAH/POM - Unspecified	Pyrene
PAH/POM - Unspecified	PAH, total
PAH/POM - Unspecified	Dibenzo[a,i]Pyrene
PAH/POM - Unspecified	Dibenzo[a,h]Pyrene
PAH/POM - Unspecified	Benzo[g,h,i]Perylene
PAH/POM - Unspecified	Dibenzo[a,l]Pyrene

If this is in Higher Level Dataset	DO NOT USE lower level dataset
PAH/POM - Unspecified	Dibenzo[a,e]Pyrene
PAH/POM - Unspecified	Benzo[e]Pyrene
PAH/POM - Unspecified	Indeno[1,2,3-c,d]Pyrene
PAH/POM - Unspecified	7H-Dibenzo[c,g]carbazole
PAH/POM - Unspecified	Benzo(c)phenanthrene
PAH/POM - Unspecified	Perylene
PAH/POM - Unspecified	Benzo(g,h,i)Fluoranthene
PAH/POM - Unspecified	Benzo(a)Fluoranthene
PAH/POM - Unspecified	Benzo[j]fluoranthene
PAH/POM - Unspecified	Benzo[b]Fluoranthene
PAH/POM - Unspecified	Fluoranthene
PAH/POM - Unspecified	Benzo[k]Fluoranthene
PAH/POM - Unspecified	Acenaphthylene
PAH/POM - Unspecified	Chrysene
PAH/POM - Unspecified	Dibenzo[a,j]Acridine
PAH/POM - Unspecified	Dibenz[a,h]acridine
PAH/POM - Unspecified	1-Methylpyrene
PAH/POM - Unspecified	12-Methylbenz(a)Anthracene
PAH/POM - Unspecified	PAH/POM - Unspecified
PAH/POM - Unspecified	2-Methylphenanthrene
PAH/POM - Unspecified	Methylanthracene
PAH/POM - Unspecified	5-Methylchrysene
PAH/POM - Unspecified	Methylchrysene
PAH/POM - Unspecified	1,6-Dinitropyrene
PAH/POM - Unspecified	1,8-Dinitropyrene
PAH/POM - Unspecified	Benzo[a]Pyrene
PAH/POM - Unspecified	Dibenzo[a,h]Anthracene
PAH/POM - Unspecified	1-Nitropyrene
PAH/POM - Unspecified	3-Methylcholanthrene
PAH/POM - Unspecified	Benz[a]Anthracene
PAH/POM - Unspecified	Benzofluoranthenes
PAH/POM - Unspecified	4-Nitropyrene
PAH/POM - Unspecified	7,12-Dimethylbenz[a]Anthracene
PAH/POM - Unspecified	5-Nitroacenaphthene
PAH/POM - Unspecified	2-Nitrofluorene
PAH/POM - Unspecified	Methylbenzopyrene
PAH/POM - Unspecified	6-Nitrochrysene
PAH/POM - Unspecified	9-Methyl Anthracene
PAH/POM - Unspecified	Coal Tar
PAH/POM - Unspecified	1-Methylphenanthrene
PAH/POM - Unspecified	Acenaphthene
PAH/POM - Unspecified	Phenanthrene
PAH/POM - Unspecified	Fluorene
PAH/POM - Unspecified	Carbazole
PAH/POM - Unspecified	1-Methylnaphthalene

If this is in Higher Level Dataset	DO NOT USE lower level dataset
PAH/POM - Unspecified	2-Methylnaphthalene
PAH/POM - Unspecified	2-Chloronaphthalene
Extractable Organic Matter	Anthracene
Extractable Organic Matter	Pyrene
Extractable Organic Matter	PAH, total
Extractable Organic Matter	Dibenzo[a,i]Pyrene
Extractable Organic Matter	Dibenzo[a,h]Pyrene
Extractable Organic Matter	Benzo[g,h,i]Perylene
Extractable Organic Matter	Dibenzo[a,l]Pyrene
Extractable Organic Matter	Dibenzo[a,e]Pyrene
Extractable Organic Matter	Benzo[e]Pyrene
Extractable Organic Matter	Indeno[1,2,3-c,d]Pyrene
Extractable Organic Matter	7H-Dibenzo[c,g]carbazole
Extractable Organic Matter	Benzo(c)phenanthrene
Extractable Organic Matter	Perylene
Extractable Organic Matter	Benzo(g,h,i)Fluoranthene
Extractable Organic Matter	Benzo(a)Fluoranthene
Extractable Organic Matter	Benzo[j]fluoranthene
Extractable Organic Matter	Benzo[b]Fluoranthene
Extractable Organic Matter	Fluoranthene
Extractable Organic Matter	Benzo[k]Fluoranthene
Extractable Organic Matter	Acenaphthylene
Extractable Organic Matter	Chrysene
Extractable Organic Matter	Dibenzo[a,j]Acridine
Extractable Organic Matter	Dibenz[a,h]acridine
Extractable Organic Matter	1-Methylpyrene
Extractable Organic Matter	12-Methylbenz(a)Anthracene
Extractable Organic Matter	PAH/POM - Unspecified
Extractable Organic Matter	2-Methylphenanthrene
Extractable Organic Matter	Methylanthracene
Extractable Organic Matter	5-Methylchrysene
Extractable Organic Matter	Methylchrysene
Extractable Organic Matter	1,6-Dinitropyrene
Extractable Organic Matter	1,8-Dinitropyrene
Extractable Organic Matter	Benzo[a]Pyrene
Extractable Organic Matter	Dibenzo[a,h]Anthracene
Extractable Organic Matter	1-Nitropyrene
Extractable Organic Matter	3-Methylcholanthrene
Extractable Organic Matter	Benz[a]Anthracene
Extractable Organic Matter	Benzo[fluoranthenes
Extractable Organic Matter	4-Nitropyrene
Extractable Organic Matter	7,12-Dimethylbenz[a]Anthracene
Extractable Organic Matter	5-Nitroacenaphthene
Extractable Organic Matter	2-Nitrofluorene
Extractable Organic Matter	Methylbenzopyrene

If this is in Higher Level Dataset	DO NOT USE lower level dataset
Extractable Organic Matter	6-Nitrochrysene
Extractable Organic Matter	9-Methyl Anthracene
Extractable Organic Matter	Coal Tar
Extractable Organic Matter	1-Methylphenanthrene
Extractable Organic Matter	Acenaphthene
Extractable Organic Matter	Phenanthrene
Extractable Organic Matter	Fluorene
Extractable Organic Matter	Carbazole
Extractable Organic Matter	1-Methylnaphthalene
Extractable Organic Matter	2-Methylnaphthalene
Extractable Organic Matter	2-Chloronaphthalene

- e. Higher-priority dataset pollutant is PAC (N590) and lower-priority dataset pollutant is any individual pollutant in the **N590 group** or “PAH/POM – unspecified”, or “PAH, Total” or EOM

Within agency dataset: allow N590 and 250. Don’t allow N590 and “PAH, total”. Allow N590 and EOM. (applied to both “e” and “f”).

- f. Higher-priority dataset pollutant is any individual pollutant in the N590 group and lower-priority dataset pollutant is PAC (N590) or “PAH/POM – unspecified”, or “PAH, Total” or EOM.

If this is in Higher Level Dataset	DO NOT USE lower level dataset
N590	Extractable Organic Matter
N590	PAH, total
N590	PAH/POM - Unspecified
N590	Benzo(a)fluoranthenes
N590	Benzo(a)anthracene
N590	Benzo(b)fluoranthene
N590	Benzo(j)fluoranthene
N590	Benzo(k)Fluoranthene
N590	Benzo(j,k)fluorene
N590	Benzo(r,s,t)pentaphene
N590	Benzo(a)phenanthrene
N590	Benzo(a)pyrene
N590	Dibenz(a,h)acridine
N590	Dibenz(a,j)acridine
N590	Dibenzo(a,h)anthracene
N590	7H-Dibenzo(c,g)carbazol
N590	Dibenzo(a,e)pyrene
N590	Dibenzo(a,h)pyrene
N590	Dibenzo(a,l)pyrene
N590	7,12-Dimethylbenz(a)-anthracene
N590	1,6-Dinitropyrene
N590	1,8-Dinitropyrene
N590	Indeno(1,2,3-cd)pyrene
N590	3-Methylcholanthrene

If this is in Higher Level Dataset	DO NOT USE lower level dataset
N590	5-Methylchrysene
N590	6-Nitrochrysene
N590	1-Nitropyrene
N590	4-Nitropyrene
N590	Benzo(b)fluoranthene
N590	Benzo(j)fluoranthene
N590	Benzo[k]Fluoranthene
N590	Benzo(j,k)fluorene
N590	Benzo(r,s,t)pentaphene
N590	Benzo(a)phenanthrene
N590	Benzo(a)pyrene
N590	Dibenz(a,h)acridine
N590	Dibenz(a,j)acridine
N590	Dibenzo(a,h)anthracene
N590	7H-Dibenzo(c,g)carbazol
N590	Dibenzo(a,e)pyrene
N590	Dibenzo(a,h)pyrene
N590	Dibenzo(a,l)pyrene
N590	7,12-Dimethylbenz(a)-anthracene
N590	1,6-Dinitropyrene
N590	1,8-Dinitropyrene
N590	Indeno(1,2,3-cd)pyrene
N590	3-Methylcholanthrene
N590	5-Methylchrysene
N590	6-Nitrochrysene
PAH, total	N590
PAH/POM - Unspecified	N590
Benzo(a)fluoranthenes	N590
Benzo(a)anthracene	N590
Benzo(b)fluoranthene	N590
Benzo(j)fluoranthene	N590
Benzo[k]Fluoranthene	N590
Benzo(j,k)fluorene	N590
Benzo(r,s,t)pentaphene	N590
Benzo(a)phenanthrene	N590
Benzo(a)pyrene	N590
Dibenz(a,h)acridine	N590
Dibenz(a,j)acridine	N590
Dibenzo(a,h)anthracene	N590
7H-Dibenzo(c,g)carbazol	N590
Dibenzo(a,e)pyrene	N590
Dibenzo(a,h)pyrene	N590
Dibenzo(a,l)pyrene	N590
7,12-Dimethylbenz(a)-anthracene	N590
1,6-Dinitropyrene	N590

If this is in Higher Level Dataset	DO NOT USE lower level dataset
1,8-Dinitropyrene	N590
Indeno(1,2,3-cd)pyrene	N590
3-Methylcholanthrene	N590
5-Methylchrysene	N590
6-Nitrochrysene	N590
1-Nitropyrene	N590
4-Nitropyrene	N590
Benzo(b)fluoranthene	N590
Benzo(j)fluoranthene	N590
Benzo[k]Fluoranthene	N590
Benzo(j,k)fluorene	N590
Benzo(r,s,t)pentaphene	N590
Benzo(a)phenanthrene	N590
Benzo(a)pyrene	N590
Dibenz(a,h)acridine	N590
Dibenz(a,j)acridine	N590
Dibenzo(a,h)anthracene	N590
7H-Dibenzo(c,g)carbazol	N590
Dibenzo(a,e)pyrene	N590
Dibenzo(a,h)pyrene	N590
Dibenzo(a,l)pyrene	N590
7,12-Dimethylbenz(a)-anthracene	N590
1,6-Dinitropyrene	N590
1,8-Dinitropyrene	N590
Indeno(1,2,3-cd)pyrene	N590
3-Methylcholanthrene	N590
5-Methylchrysene	N590
6-Nitrochrysene	N590

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