

Appendix B

Reportable Contaminants from Fuel Combustion

(For Information Only)

APPENDIX B

REPORTABLE CONTAMINANTS FROM FUEL COMBUSTION

(This information is extracted from USEPA FIRE 6.22 emission factors and SPECIATE database. It is not intended to be a complete list of contaminants reportable by a specific sector. Methods of emission estimation, such as mass balance; stack testing data; engineering process emission calculation can also be used by reporting facilities to determine the air contaminants. This list may be updated from time to time when new information are available.)

Anthracite Coal Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETYLENE	74-86-2
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(E)PYRENE	192-97-2
BENZO(G,H,I)PERYLENE	191-24-2
BENZO(K)FLUORANTHENE	207-08-9
BERYLLIUM	7440-41-7
BIPHENYL	92-52-4
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON MONOXIDE	630-08-0
CHLORINE	7782-50-5
CHROMIUM	NA - 04
COBALT	NA - 05
COPPER	NA - 06
ETHYLBENZENE	100-41-4
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
N-HEPTANE	142-82-5
N-HEXANE	110-54-3
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
LEAD	NA - 08
MANGANESE	NA - 09

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Anthracite Coal Combustion	
Contaminant	CAS
MERCURY	NA - 10
METHANE	74-82-8
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
PERYLENE	198-55-0
PHENANTHRENE	85-01-8
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) AND POLYCHLORINATED DIBENZOFURANS (PCDF)	N/A - M11
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13
SULPHUR DIOXIDE	7446-09-5
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TEQ)	1746-01-6
2,3,7,8-TETRACHLORODIBENZOFURAN (TEQ)	51207-31-9
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
VANADIUM	7440-62-2
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
M-XYLENE	108-38-3
O-XYLENE	95-47-6
ZINC	NA - 14

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Bituminous/Subbituminous Coal Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETOPHENONE	98-86-2
ACETYLENE	74-86-2
ACROLEIN	107-02-8
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(G,H,I)PERYLENE	191-24-2
BENZYL CHLORIDE	100-44-7
BERYLLIUM	7440-41-7
BIPHENYL	92-52-4
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7
BORON	7440-42-8
BROMINE	7726-95-6
BROMOMETHANE	74-83-9
CADMIUM	NA - 03
CARBON DISULPHIDE	75-15-0
CARBON MONOXIDE	630-08-0
CHLORINE	7782-50-5
CHLOROBENZENE	108-90-7
CHLOROETHANE	75-00-3
CHLOROFORM	67-66-3
CHLOROMETHANE	74-87-3
CHROMIUM	NA - 04
CHROMIUM (VI) COMPOUNDS	18540-29-9

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Bituminous/Subbituminous Coal Combustion	
Contaminant	CAS
COBALT	NA - 05
COPPER	NA - 06
CUMENE	98-82-8
1,2-DIBROMOETHANE	106-93-4
1,2-DICHLOROETHANE	107-06-2
DICHLOROMETHANE	75-09-2
DIMETHYL SULPHATE	77-78-1
2,4-DINITROTOLUENE	121-14-2
ETHYLBENZENE	100-41-4
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
FLUORINE	7782-41-4
FORMALDEHYDE	50-00-0
N-HEPTANE	142-82-5
N-HEXANE	110-54-3
HYDROCHLORIC ACID	7647-01-0
HYDROGEN FLUORIDE	7664-39-3
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
LEAD	NA - 08
LITHIUM - OTHER THAN HYDRIDES	7439-93-2
MANGANESE	NA - 09
MERCURY	NA - 10
METHANE	74-82-8
METHYL ETHYL KETONE	78-93-3
METHYL METHACRYLATE	80-62-6
METHYL TERT-BUTYL ETHER	1634-04-4
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
NITROUS OXIDE	10024-97-2
PHENANTHRENE	85-01-8

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Bituminous/Subbituminous Coal Combustion	
Contaminant	CAS
PHENOL	108-95-2
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) AND POLYCHLORINATED DIBENZOFURANS (PCDF)	N/A - M11
PROPIONALDEHYDE	123-38-6
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13
STYRENE	100-42-5
SULPHUR DIOXIDE	7446-09-5
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TEQ)	1746-01-6
2,3,7,8-TETRACHLORODIBENZOFURAN (TEQ)	51207-31-9
TETRACHLOROETHYLENE	127-18-4
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
1,1,1-TRICHLOROETHANE	71-55-6
VANADIUM	7440-62-2
VINYL ACETATE	108-05-4
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
M-XYLENE	108-38-3
O-XYLENE	95-47-6
ZINC	NA - 14

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Lignite Coal Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETOPHENONE	98-86-2
ACETYLENE	74-86-2
ACROLEIN	107-02-8
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(G,H,I)PERYLENE	191-24-2
BENZYL CHLORIDE	100-44-7
BERYLLIUM	7440-41-7
BIPHENYL	92-52-4
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7
BROMOMETHANE	74-83-9
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON DISULPHIDE	75-15-0
CARBON MONOXIDE	630-08-0
CHLORINE	7782-50-5
CHLOROBENZENE	108-90-7
CHLOROETHANE	75-00-3
CHLOROFORM	67-66-3
CHLOROMETHANE	74-87-3
CHROMIUM	NA - 04
CHROMIUM (VI) COMPOUNDS	18540-29-9
COBALT	NA - 05

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Lignite Coal Combustion	
Contaminant	CAS
COPPER	NA - 06
CUMENE	98-82-8
1,2-DIBROMOETHANE	106-93-4
1,2-DICHLOROETHANE	107-06-2
DICHLOROMETHANE	75-09-2
DIMETHYL SULPHATE	77-78-1
2,4-DINITROTOLUENE	121-14-2
ETHYLBENZENE	100-41-4
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
FORMALDEHYDE	50-00-0
N-HEPTANE	142-82-5
N-HEXANE	110-54-3
HYDROCHLORIC ACID	7647-01-0
HYDROGEN FLUORIDE	7664-39-3
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
LEAD	NA - 08
MANGANESE	NA - 09
MERCURY	NA - 10
METHYL ETHYL KETONE	78-93-3
METHYL METHACRYLATE	80-62-6
METHYL TERT-BUTYL ETHER	1634-04-4
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
NITROUS OXIDE	10024-97-2
PHENANTHRENE	85-01-8
PHENOL	108-95-2
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09

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Lignite Coal Combustion	
Contaminant	CAS
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
PROPIONALDEHYDE	123-38-6
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13
STYRENE	100-42-5
SULPHUR DIOXIDE	7446-09-5
TETRACHLOROETHYLENE	127-18-4
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
1,1,1-TRICHLOROETHANE	71-55-6
VANADIUM	7440-62-2
VINYL ACETATE	108-05-4
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
M-XYLENE	108-38-3
O-XYLENE	95-47-6
ZINC	NA - 14

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Liquid/Solid Waste Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETONE	67-64-1
ACROLEIN	107-02-8
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(E)PYRENE	192-97-2
BENZO(G,H,I)PERYLENE	191-24-2
BENZO(K)FLUORANTHENE	207-08-9
BERYLLIUM	7440-41-7
BORON	7440-42-8
BROMINE	7726-95-6
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON MONOXIDE	630-08-0
CARBON TETRACHLORIDE	56-23-5
CHLORINE	7782-50-5
CHLOROFORM	67-66-3
CHROMIUM	NA - 04
CHROMIUM (VI) COMPOUNDS	18540-29-9
COBALT	NA - 05
COPPER	NA - 06
DIBENZO(A,H)ANTHRACENE	53-70-3
ETHYLENE	74-85-1
FLUORANTHENE	206-44-0

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Liquid/Solid Waste Combustion	
Contaminant	CAS
FLUORENE	86-73-7
FLUORINE	7782-41-4
FORMALDEHYDE	50-00-0
N-HEXANE	110-54-3
HYDROCHLORIC ACID	7647-01-0
HYDROGEN CYANIDE	74-90-8
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
LEAD	NA - 08
LITHIUM - OTHER THAN HYDRIDES	7439-93-2
MANGANESE	NA - 09
MERCURY	NA - 10
METHANE	74-82-8
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
P-NITROPHENOL	100-02-7
NITROUS OXIDE	10024-97-2
PERYLENE	198-55-0
PHENANTHRENE	85-01-8
PHENOL	108-95-2
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3
POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) AND POLYCHLORINATED DIBENZOFURANS (PCDF)	N/A - M11
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13

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Liquid/Solid Waste Combustion	
Contaminant	CAS
SULPHUR DIOXIDE	7446-09-5
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TEQ)	1746-01-6
2,3,7,8-TETRACHLORODIBENZOFURAN (TEQ)	51207-31-9
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
VANADIUM	7440-62-2
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
ZINC	NA - 14

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Natural Gas Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETYLENE	74-86-2
ACROLEIN	107-02-8
AMMONIA (TOTAL)	NA - 16
ANTHRACENE	120-12-7
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(B)FLUORANTHENE	205-99-2
BENZO(G,H,I)PERYLENE	191-24-2
BENZO(K)FLUORANTHENE	207-08-9
BERYLLIUM	7440-41-7
BROMINE	7726-95-6
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON MONOXIDE	630-08-0
CHROMIUM	NA - 04
COBALT	NA - 05
COPPER	NA - 06
CYCLOHEXANE	110-82-7
DIBENZO(A,H)ANTHRACENE	53-70-3
ETHYLBENZENE	100-41-4
ETHYLENE	74-85-1
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
FORMALDEHYDE	50-00-0
N-HEPTANE	142-82-5
N-HEXANE	110-54-3

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Natural Gas Combustion	
Contaminant	CAS
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
ISOBUTYRALDEHYDE	78-84-2
LEAD	NA - 08
MANGANESE	NA - 09
MERCURY	NA - 10
METHANE	74-82-8
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
NITROUS OXIDE	10024-97-2
PHENANTHRENE	85-01-8
PHENOL	108-95-2
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SULPHUR DIOXIDE	7446-09-5
TOLUENE	108-88-3
1,2,4-TRIMETHYLBENZENE	95-63-6
VANADIUM	7440-62-2
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
M-XYLENE	108-38-3
O-XYLENE	95-47-6
ZINC	NA - 14

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Oil Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETONE	67-64-1
ACETYLENE	74-86-2
ACROLEIN	107-02-8
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(B)FLUORANTHENE	205-99-2
BENZO(G,H,I)PERYLENE	191-24-2
BENZO(K)FLUORANTHENE	207-08-9
BERYLLIUM	7440-41-7
BORON	7440-42-8
BROMINE	7726-95-6
1,3-BUTADIENE	106-99-0
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON MONOXIDE	630-08-0
CHLORINE	7782-50-5
CHROMIUM	NA - 04
CHROMIUM (VI) COMPOUNDS	18540-29-9
COBALT	NA - 05
COPPER	NA - 06
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
DIBENZO(A,H)ANTHRACENE	53-70-3

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Oil Combustion	
Contaminant	CAS
ETHYLBENZENE	100-41-4
ETHYLENE	74-85-1
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
FLUORINE	7782-41-4
FORMALDEHYDE	50-00-0
N-HEPTANE	142-82-5
N-HEXANE	110-54-3
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
ISOPRENE	78-79-5
LEAD	NA - 08
MANGANESE	NA - 09
MERCURY	NA - 10
METHANE	74-82-8
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
NITROUS OXIDE	10024-97-2
PHENANTHRENE	85-01-8
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) AND POLYCHLORINATED DIBENZOFURANS (PCDF)	N/A - M11
PROPIONALDEHYDE	123-38-6
PROPYLENE	115-07-1
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13
STYRENE	100-42-5

APPENDIX B

REPORTABLE CONTAMINANTS FROM FUEL COMBUSTION

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Oil Combustion	
Contaminant	CAS
SULPHUR DIOXIDE	7446-09-5
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
1,1,1-TRICHLOROETHANE	71-55-6
1,2,4-TRIMETHYLBENZENE	95-63-6
VANADIUM	7440-62-2
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
O-XYLENE	95-47-6
ZINC	NA - 14

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Wood/Bark Combustion	
Contaminant	CAS
ACENAPHTHENE	83-32-9
ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	75-07-0
ACETYLENE	74-86-2
ACROLEIN	107-02-8
ALUMINUM	7429-90-5
ANTHRACENE	120-12-7
ANTIMONY	NA - 01
ARSENIC	NA - 02
BENZ(A)ANTHRACENE	56-55-3
BENZENE	71-43-2
BENZO(A)PHENANTHRENE (CHRYSENE)	218-01-9
BENZO(A)PYRENE	50-32-8
BENZO(B)FLUORANTHENE	205-99-2
BENZO(E)PYRENE	192-97-2
BENZO(G,H,I)PERYLENE	191-24-2
BENZO(K)FLUORANTHENE	207-08-9
BERYLLIUM	7440-41-7
BIPHENYL	92-52-4
BORON	7440-42-8
BROMINE	7726-95-6
BUTYRALDEHYDE	123-72-8
CADMIUM	NA - 03
CARBON DIOXIDE	124-38-9
CARBON MONOXIDE	630-08-0
CHLORINE	7782-50-5
CHROMIUM	NA - 04
CHROMIUM (VI) COMPOUNDS	18540-29-9
COBALT	NA - 05
COPPER	NA - 06
DIBENZO(A,H)ANTHRACENE	53-70-3
ETHYLENE	74-85-1

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Wood/Bark Combustion	
Contaminant	CAS
FLUORANTHENE	206-44-0
FLUORENE	86-73-7
FLUORINE	7782-41-4
FORMALDEHYDE	50-00-0
FURFURAL	98-01-1
HYDROCHLORIC ACID	7647-01-0
HYDROGEN CYANIDE	74-90-8
INDENO(1,2,3-C,D)PYRENE	193-39-5
IRON	7439-89-6
ISOBUTYRALDEHYDE	78-84-2
LEAD	NA - 08
LITHIUM - OTHER THAN HYDRIDES	7439-93-2
MANGANESE	NA - 09
MERCURY	NA - 10
METHANE	74-82-8
METHYL ETHYL KETONE	78-93-3
NAPHTHALENE	91-20-3
NICKEL	NA - 11
OXIDES OF NITROGEN (EXPRESSED AS NO)	10102-43-9
P-NITROPHENOL	100-02-7
NITROUS OXIDE	10024-97-2
PERYLENE	198-55-0
PHENANTHRENE	85-01-8
PHENOL	108-95-2
PHOSPHORUS	7723-14-0
PM - PARTICULATE MATTER	N/A - M08
PM10 - PARTICULATE MATTER <=10MICRONS	N/A - M09
PM2.5 - PARTICULATE MATTER <=2.5MICRONS	N/A - M10
POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) AND POLYCHLORINATED DIBENZOFURANS (PCDF)	N/A - M11
PROPIONALDEHYDE	123-38-6
PROPYLENE	115-07-1

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Wood/Bark Combustion	
Contaminant	CAS
PYRENE	129-00-0
SELENIUM	NA - 12
SILVER	NA - 13
SULPHUR DIOXIDE	7446-09-5
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TEQ)	1746-01-6
2,3,7,8-TETRACHLORODIBENZOFURAN (TEQ)	51207-31-9
TIN	7440-31-5
TITANIUM	7440-32-6
TOLUENE	108-88-3
VANADIUM	7440-62-2
VOLATILE ORGANIC COMPOUNDS (VOC)	N/A - M16
XYLENE	1330-20-7
O-XYLENE	95-47-6
ZINC	NA - 14

