

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

IN THE MATTER OF: )  
 ) R 2022-018  
PROPOSED AMENDMENTS TO )  
GROUNDWATER QUALITY )  
(35 ILL. ADM. CODE 620) )

**NOTICE OF FILING**

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Illinois Pollution Control Board, the **ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ERRATA SHEET**, a copy of which is served upon you.

Respectfully submitted,

Dated: March 3, 2023

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY,

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BY: /s/ Sara Terranova  
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**THIS FILING IS SUBMITTED ELECTRONICALLY**

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**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ERRATA SHEET**

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA or Agency"), by and through one of its attorneys, and submits the following Errata Sheet. The intention of this document is to provide non-substantive, clean-up changes to the Agency's Part 620 proposal. The Agency provides a detailed explanation of the changes made, followed by the changes themselves.

**Part 620 Amendments Errata Sheet**

**Section**

**620.310(a)(3)(A)(ii)**

- Remove "(sodium cyanide)" from the proposed "Cyanide" Constituent Name. The MCL for sodium cyanide may be used for different forms of cyanide.
- Add CASRN 99-65-0, Constituent Name 1,3-Dinitrobenzene, to the proposed table. Additional information supports the use of an LLOQ/LCMRL of 0.0001 mg/L from Method 8330B, "Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC)." Attachment 1I 22 (p. 4,850) of the Initial Filing proposed an LLOQ/LCMRL of 0.001 mg/L, derived from Method 8270C. As a result, the LLOQ/LCMRL is no longer the appropriate groundwater quality standard at Section 620.410(a) and 1,3-Dinitrobenzene is subject to the requirements at Subpart C: Nondegradation Provisions for Appropriate Groundwaters.
- Add CASRN 121-14-2, Constituent Name 2,4-Dinitrotoluene, to the proposed table. Additional information supports the use of an LLOQ/LCMRL of 0.0001 mg/L from Method 8330B, "Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC)." Attachment 1I 22 (p. 4,850) of the Initial Filing proposed an LLOQ/LCMRL of 0.001 mg/L, derived from Method 8270C. As a result, the LLOQ/LCMRL is no longer the appropriate groundwater quality standard at Section 620.410(a) and 2,4-Dinitrotoluene is subject to the requirements at Subpart C: Nondegradation Provisions for Appropriate Groundwaters.

- Revise the CASRN for Chlordane from 12798-03-6 to 12789-03-6, due to a transcription error.

Below is a revised Section 620.310(a)(3)(A)(ii) table based on the edits above:

<b>CASRN</b>	<b>Constituent</b>
<b>Inorganics</b>	
7429-90-5	Aluminum
7440-38-2	Arsenic
7440-41-7	Beryllium
7440-43-9	Cadmium
7440-47-3	Chromium (total)
143-33-9	Cyanide ( <del>sodium cyanide</del> )
7439-92-1	Lead
7487-94-7	Mercury (mercuric chloride)
7439-98-7	Molybdenum
7440-28-0	Thallium
7440-62-2	Vanadium
<b>Organics</b>	
83-32-9	Acenaphthene
67-64-1	Acetone
116-06-3	Aldicarb
120-12-7	Anthracene
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride)
1912-24-9	Atrazine and metabolites DEA, DIA, DACT
71-43-2	Benzene
56-55-3	Benzo(a)anthracene
205-99-2	Benzo(b)fluoranthene
207-08-9	Benzo(k)fluoranthene
50-32-8	Benzo(a)pyrene
65-85-0	Benzoic acid
78-93-3	2-Butanone (methyl ethyl ketone)
1563-66-2	Carbofuran
75-15-0	Carbon disulfide
56-23-5	Carbon tetrachloride
<del>1279889</del> -03-6	Chlordane
108-90-7	Chlorobenzene
67-66-3	Chloroform
218-01-9	Chrysene
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)
75-99-0	Dalapon
96-12-8	1,2-Dibromo-3-chloropropane

<b>CASRN</b>	<b>Constituent</b>
	(dibromochloropropane)
1918-00-9	Dicamba
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)
75-71-8	Dichlorodifluoromethane
75-34-3	1,1-Dichloroethane
75-35-4	1,1-Dichloroethylene
107-06-2	1,2-Dichloroethane
156-59-2	<i>cis</i> -1,2-Dichloroethylene
156-60-5	<i>trans</i> -1,2-Dichloroethylene
75-09-2	Dichloromethane (methylene chloride)
78-87-5	1,2-Dichloropropane
117-81-7	Di(2-ethylhexyl)phthalate
84-66-2	Diethyl phthalate
84-74-2	Di- <i>n</i> -butyl phthalate
99-65-0	<u>1,3-Dinitrobenzene</u>
121-14-2	<u>2,4-Dinitrotoluene</u>
88-85-7	Dinoseb
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane)
145-73-3	Endothall
72-20-8	Endrin
100-41-4	Ethylbenzene
106-93-4	Ethylene dibromide (1,2-dibromoethane)
206-44-0	Fluoranthene
86-73-7	Fluorene
58-89-9	<i>gamma</i> -HCH ( <i>gamma</i> -hexachlorocyclohexane, lindane)
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
2691-41-0	HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
77-47-4	Hexachlorocyclopentadiene
193-39-5	Indeno(1,2,3- <i>c,d</i> )pyrene
98-82-8	Isopropylbenzene (cumene)
72-43-5	Methoxychlor
90-12-0	1-Methylnaphthalene
91-57-6	2-Methylnaphthalene
95-48-7	2-Methylphenol ( <i>o</i> -cresol)
91-20-3	Naphthalene
98-95-3	Nitrobenzene
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl)

<b>CASRN</b>	<b>Constituent</b>
375-73-5	PFBS (perfluorobutanesulfonic acid)
355-46-4	PFHxS (perfluorohexanesulfonic acid)
375-95-1	PFNA (perfluorononanoic acid)
1763-23-1	PFOS (perfluorooctanesulfonic acid)
87-86-5	Pentachlorophenol
1918-02-1	Picloram
129-00-0	Pyrene
121-82-4	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
122-34-9	Simazine
118-96-7	TNT (2,4,6-trinitrotoluene)
93-72-1	2,4,5-TP (silvex)
127-18-4	Tetrachloroethylene
8001-35-2	Toxaphene
120-82-1	1,2,4-Trichlorobenzene
71-55-6	1,1,1-Trichloroethane
79-00-5	1,1,2-Trichloroethane
79-01-6	Trichloroethylene
75-69-4	Trichlorofluoromethane
99-35-4	1,3,5-Trinitrobenzene
75-01-4	Vinyl chloride

**620.410(a)**

- Remove “(sodium cyanide)” from the proposed “Cyanide” Constituent Name. The MCL for sodium cyanide may be used for different forms of cyanide.
- Remove “(sodium fluoride)” from the proposed “Fluoride” Constituent Name. The livestock standard does not specify a specific form of fluoride and the MCL for sodium fluoride may be used for different forms of fluoride.
- Add a footnote stating inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects and renumber existing footnotes.
- Make minor grammatical changes to the footnotes.

Below is a revised Section 620.410(a) table based on the edits above:

<b>CASRN</b>	<b>Constituent</b>	<b>Standard<sup>a,b</sup></b>
7429-90-5	Aluminum	1.9 <sup>bc</sup>
7440-36-0	Antimony	0.006 <sup>ed</sup>
7440-38-2	Arsenic <sup>de</sup>	0.01 <sup>ed</sup>
7440-39-3	Barium	2.0 <sup>ed</sup>
7440-41-7	Beryllium	0.004 <sup>ed</sup>

CASRN	Constituent	Standard <sup>a,b</sup>
7440-42-8	Boron	2.0 <sup>ef</sup>
7440-43-9	Cadmium	0.005 <sup>ed</sup>
16887-00-6	Chloride	200 <sup>fg</sup>
7440-47-3	Chromium (total)	0.1 <sup>ed</sup>
7440-48-4	Cobalt	0.0012 <sup>bc</sup>
7440-50-8	Copper	0.5 <sup>gh</sup>
143-33-9	Cyanide ( <del>sodium cyanide</del> )	0.2 <sup>ed</sup>
7681-49-4	Fluoride ( <del>sodium fluoride</del> )	2 <sup>gh</sup>
7439-89-6	Iron	5 <sup>fg</sup>
7439-92-1	Lead	0.0075 <sup>hi</sup>
7439-93-2	Lithium	0.04 <sup>ii</sup>
7439-96-5	Manganese	0.15 <sup>jk</sup>
7487-94-7	Mercury (mercuric chloride)	0.002 <sup>ed</sup>
7439-98-7	Molybdenum	0.019 <sup>bc</sup>
7440-02-0	Nickel	0.077 <sup>bc</sup>
14797-55-8	Nitrate as N	10 <sup>ed</sup>
14797-73-0	Perchlorate	0.0081 <sup>bc</sup>
7440-14-4	Radium (combined 226+228)	5 <sup>ed</sup>
7782-49-2	Selenium	0.02 <sup>ef</sup>
7440-22-4	Silver	0.058 <sup>bc</sup>
14808-79-8	Sulfate	400 <sup>fg</sup>
	TDS (total dissolved solids)	1,200 <sup>fg</sup>
7440-28-0	Thallium	0.002 <sup>ed</sup>
7440-62-2	Vanadium	0.00027 <sup>e</sup>
7440-66-6	Zinc	1.2 <sup>bc</sup>

## Constituent Name and Groundwater Quality Standard Notations

<sup>a</sup> The standard units are milligrams per liter (“mg/L”), except for the radium (combined 226+228) unit of picocuries per liter (“pCi/L”).

<sup>b</sup> The inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects.

<sup>bc</sup> The standard is calculated using the Human Threshold Toxicant Advisory Concentration (“HTTAC”) procedures at Appendix A.

<sup>ed</sup> The standard is based on the Maximum Contaminant Level (“MCL”), promulgated by U.S. EPA, Office of Water, and Illinois EPA Primary Drinking Water Standards at 35 Ill. Adm. Code 611.

<sup>de</sup> The constituent meets the definition of a “carcinogen” at Section 620.110.

<sup>ef</sup> The standard is based on beneficial use for irrigation of crops, per “*Water Quality Criteria*,” by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>fg</sup> The standard is the 95% confidence concentration stated in Illinois EPA’s “*Integrated Water Quality Report and Section 303(d) List*,” incorporated by reference at Section 620.125.

<sup>gh</sup> The standard is based on beneficial use for watering livestock, per “*Water Quality Criteria*,” by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>hi</sup> The standard is 50% of the U.S. EPA “action level” of 0.015 mg/L for lead. The U.S. EPA action level applies at the service connection. The standard is reduced by 50% as a safety margin, based on the assumption that 50% of water would be treated.

<sup>ii</sup> The standard is the “LLOQ” or “LCMRL” as defined in Section 620.110.

<sup>jk</sup> The standard is promulgated at 35 Ill. Adm. Code 611.300.

#### **620.410(b)**

- Revise the proposed Class I groundwater quality standard for 1,3-Dinitrobenzene from an LLOQ/LCMRL 0.001 mg/L to the proposed health-based HTTAC of 0.0007 mg/L.

Additional information supports the use of an LLOQ/LCMRL of 0.0001 mg/L from Method 8330B, “Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC).” Attachment 1I 22 (p. 4,850) of the Initial Filing proposed an LLOQ/LCMRL of 0.001 mg/L, derived from Method 8270C. Section 620.605(b)(1) supports the use of the health-based standard when the health-based standard is greater than the LLOQ or LCMRL.

- Revise the proposed Class I groundwater quality standard for 2,4-Dinitrotoluene from an LLOQ/LCMRL 0.001 mg/L to the proposed health-based HNTAC of 0.00025 mg/L.

Additional information supports the use of an LLOQ/LCMRL of 0.0001 mg/L from Method 8330B, “Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC).” Attachment 1I 22 (p. 4,850) of the Initial Filing proposed an LLOQ/LCMRL of 0.001 mg/L, derived from Method 8270C. Section 620.605(b)(1) supports the use of the health-based standard when the health-based standard is greater than the LLOQ or LCMRL.

- Revise the proposed Class I groundwater quality standard for 2,6-Dinitrotoluene from an LLOQ/LCMRL of 0.001 mg/L to the updated proposed LCMRL of 0.0001 mg/L.

Additional information supports the use of an LLOQ/LCMRL of 0.0001 mg/L from Method 8330B, “Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC).” Attachment 1I 22 (page 4,850) of the Initial Filing proposed an LLOQ/LCMRL of 0.001 mg/L, derived from Method 8270C. As the revised LLOQ/LCMRL of 0.0001 mg/L is greater than the proposed health-based standard of 0.000052 mg/L, per Section 620.605(b)(1), the revised LCMRL is the appropriate standard.

- Revise the CASRN for Chlordane from 12798-03-6 to 12789-03-6, due to a transcription error.

Below is a revised Section 620.410(b) table based on the edits above:

CASRN	Constituent	Standard (mg/L)
83-32-9	Acenaphthene	0.23 <sup>a</sup>
67-64-1	Acetone	3.5 <sup>a</sup>
15972-60-8	Alachlor <sup>b</sup>	0.002 <sup>c</sup>
116-06-3	Aldicarb	0.003 <sup>c</sup>
120-12-7	Anthracene	1.2 <sup>a</sup>
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride) <sup>b</sup>	0.000012 <sup>d</sup>
71-43-2	Benzene <sup>b</sup>	0.005 <sup>c</sup>
56-55-3	Benzo(a)anthracene <sup>e</sup>	0.00025 <sup>d</sup>
205-99-2	Benzo(b)fluoranthene <sup>e</sup>	0.00025 <sup>d</sup>
207-08-9	Benzo(k)fluoranthene <sup>e</sup>	0.0025 <sup>d</sup>
50-32-8	Benzo(a)pyrene <sup>e</sup>	0.0002 <sup>c</sup>
65-85-0	Benzoic acid	15 <sup>a</sup>
78-93-3	2-Butanone (methyl ethyl ketone)	2.3 <sup>a</sup>
1563-66-2	Carbofuran	0.04 <sup>c</sup>
75-15-0	Carbon disulfide	0.38 <sup>a</sup>
56-23-5	Carbon tetrachloride <sup>b</sup>	0.005 <sup>c</sup>
<del>1279889-</del> 03-6	Chlordane <sup>b</sup>	0.002 <sup>c</sup>
108-90-7	Chlorobenzene	0.1 <sup>c</sup>
67-66-3	Chloroform <sup>b</sup>	0.07 <sup>f</sup>
218-01-9	Chrysene <sup>e</sup>	0.025 <sup>d</sup>
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)	0.07 <sup>c</sup>
75-99-0	Dalapon	0.2 <sup>c</sup>
53-70-3	Dibenzo(a,h)anthracene <sup>e</sup>	0.0001 <sup>g</sup>
96-12-8	1,2-Dibromo-3-chloropropane (dibromochloropropane) <sup>e</sup>	0.0002 <sup>c</sup>
1918-00-9	Dicamba	0.12 <sup>a</sup>
95-50-1	<i>o</i> -Dichlorobenzene (1,2-dichlorobenzene)	0.6 <sup>c</sup>
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene) <sup>b</sup>	0.075 <sup>c</sup>
75-71-8	Dichlorodifluoromethane	0.77 <sup>a</sup>
75-34-3	1,1-Dichloroethane	0.77 <sup>a</sup>
107-06-2	1,2-Dichloroethane <sup>b</sup>	0.005 <sup>c</sup>
75-35-4	1,1-Dichloroethylene	0.007 <sup>c</sup>
156-59-2	<i>cis</i> -1,2-Dichloroethylene	0.07 <sup>c</sup>
156-60-5	<i>trans</i> -1,2-Dichloroethylene	0.1 <sup>c</sup>
75-09-2	Dichloromethane (methylene chloride) <sup>e</sup>	0.005 <sup>c</sup>
78-87-5	1,2-Dichloropropane <sup>b</sup>	0.005 <sup>c</sup>
117-81-7	Di(2-ethylhexyl)phthalate <sup>b</sup>	0.006 <sup>c</sup>
84-66-2	Diethyl phthalate	3.1 <sup>a</sup>
84-74-2	Di- <i>n</i> -butyl phthalate	0.38 <sup>a</sup>
99-65-0	1,3-Dinitrobenzene	0.001 <sup>g</sup> 0.0007 <sup>a</sup>



CASRN	Constituent	Standard (mg/L)
121-14-2	2,4-Dinitrotoluene <sup>b</sup>	0.001 <sup>g</sup> 0.00025 <sup>d</sup>
606-20-2	2,6-Dinitrotoluene <sup>b</sup>	0.0010.0001 <sup>g</sup>
88-85-7	Dinoseb	0.007 <sup>c</sup>
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane) <sup>b</sup>	0.00078 <sup>d</sup>
145-73-3	Endothall	0.1 <sup>c</sup>
72-20-8	Endrin	0.002 <sup>c</sup>
100-41-4	Ethylbenzene <sup>b</sup>	0.7 <sup>c</sup>
106-93-4	Ethylene dibromide (1,2-dibromoethane) <sup>b</sup>	0.00005 <sup>c</sup>
206-44-0	Fluoranthene	0.15 <sup>a</sup>
86-73-7	Fluorene	0.15 <sup>a</sup>
58-89-9	<i>gamma</i> -HCH ( <i>gamma</i> -hexachlorocyclohexane, lindane) <sup>b</sup>	0.0002 <sup>c</sup>
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)	0.000012 <sup>a</sup>
2691-41-0	HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.77 <sup>a</sup>
76-44-8	Heptachlor <sup>b</sup>	0.0004 <sup>c</sup>
1024-57-3	Heptachlor epoxide <sup>b</sup>	0.0002 <sup>c</sup>
77-47-4	Hexachlorocyclopentadiene	0.05 <sup>c</sup>
193-39-5	Indeno(1,2,3- <i>c,d</i> )pyrene <sup>e</sup>	0.00025 <sup>d</sup>
98-82-8	Isopropylbenzene (cumene) <sup>b</sup>	0.38 <sup>a</sup>
93-65-2	MCCP (mecoprop)	0.1 <sup>g</sup>
1634-04-4	MTBE (methyl tertiary-butyl ether)	0.038 <sup>a</sup>
72-43-5	Methoxychlor	0.04 <sup>c</sup>
90-12-0	1-Methylnaphthalene	0.27 <sup>a</sup>
91-57-6	2-Methylnaphthalene	0.015 <sup>a</sup>
95-48-7	2-Methylphenol ( <i>o</i> -cresol)	0.19 <sup>a</sup>
91-20-3	Naphthalene	0.077 <sup>a</sup>
98-95-3	Nitrobenzene	0.0077 <sup>a</sup>
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl) <sup>b</sup>	0.0005 <sup>c</sup>
375-73-5	PFBS (perfluorobutanesulfonic acid)	0.0012 <sup>a</sup>
355-46-4	PFHxS (perfluorohexanesulfonic acid)	0.000077 <sup>a</sup>
375-95-1	PFNA (perfluorononanoic acid)	0.000012 <sup>a</sup>
335-67-1	PFOA (perfluorooctanoic acid) <sup>b</sup>	0.000002 <sup>g</sup>
1763-23-1	PFOS (perfluorooctanesulfonic acid)	0.0000077 <sup>a</sup>
87-86-5	Pentachlorophenol <sup>b</sup>	0.001 <sup>c</sup>
108-95-2	Phenol	0.1 <sup>h</sup>
1918-02-1	Picloram	0.5 <sup>c</sup>
129-00-0	Pyrene	0.12 <sup>a</sup>
121-82-4	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.062 <sup>a</sup>
122-34-9	Simazine	0.004 <sup>c</sup>

CASRN	Constituent	Standard (mg/L)
100-42-5	Styrene	0.1 <sup>c</sup>
118-96-7	TNT (2,4,6-trinitrotoluene)	0.0077 <sup>a</sup>
93-72-1	2,4,5-TP (silvex)	0.05 <sup>c</sup>
127-18-4	Tetrachloroethylene <sup>b</sup>	0.005 <sup>c</sup>
108-88-3	Toluene	1 <sup>c</sup>
8001-35-2	Toxaphene <sup>b</sup>	0.003 <sup>c</sup>
120-82-1	1,2,4-Trichlorobenzene	0.07 <sup>c</sup>
71-55-6	1,1,1-Trichloroethane	0.2 <sup>c</sup>
79-00-5	1,1,2-Trichloroethane	0.005 <sup>c</sup>
79-01-6	Trichloroethylene <sup>c</sup>	0.005 <sup>c</sup>
75-69-4	Trichlorofluoromethane	1.2 <sup>a</sup>
99-35-4	1,3,5-Trinitrobenzene	0.46 <sup>a</sup>
75-01-4	Vinyl chloride <sup>c</sup>	0.002 <sup>c</sup>
1330-20-7	Xylenes	10 <sup>c</sup>

**620.420(a)(1)**

- Remove “(sodium cyanide)” from the proposed “Cyanide” Constituent Name. The livestock standard does not specify a specific form of cyanide and the MCL for sodium cyanide may be used for different forms of cyanide.
- Remove “(sodium fluoride)” from the proposed “Fluoride” Constituent Name. The livestock standard does not specify a specific form of fluoride and the MCL for sodium fluoride may be used for different forms of fluoride.
- Add a footnote stating inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects and renumber existing footnotes.
- Make minor grammatical changes to the footnotes.

Below is a revised Section 620.420(a)(1) table based on the edits above:

CASRN	Constituent	Standard <sup>a</sup> (mg/L)
7440-36-0	Antimony	0.024 <sup>ba</sup>
7440-38-2	Arsenic <sup>cb</sup>	0.2 <sup>de</sup>
7440-39-3	Barium	2.0 <sup>de</sup>
7440-41-7	Beryllium	0.5 <sup>ef</sup>
7440-43-9	Cadmium	0.05 <sup>fg</sup>
7440-47-3	Chromium (total)	1.0 <sup>fg</sup>
7440-48-4	Cobalt	1 <sup>ed</sup>
143-33-9	Cyanide ( <del>sodium cyanide</del> )	0.6 <sup>ed</sup>
7681-49-4	Fluoride ( <del>sodium fluoride</del> )	2 <sup>ed</sup>

<u>CASRN</u>	<u>Constituent</u>	<u>Standard<sup>a</sup></u> <u>(mg/L)</u>
7439-92-1	Lead	0.1 <sup>ed</sup>
7439-93-2	Lithium	2.5 <sup>ef</sup>
7487-94-7	Mercury (mercuric chloride)	0.01 <sup>ed</sup>
7439-98-7	Molybdenum	0.05 <sup>ef</sup>
14797-55-8	Nitrate as N	100 <sup>ed</sup>
14797-73-0	Perchlorate	0.0081 <sup>de</sup>
7440-28-0	Thallium	0.02 <sup>gh</sup>
7440-62-2	Vanadium	0.1 <sup>ed</sup>

Constituent Name and Groundwater Quality Standard Notations

<sup>a</sup> The inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects.

<sup>ab</sup> A treatment factor of 4 is applied to the Class I groundwater quality standard. The constituent's treatment efficiency is based on the effectiveness to treat the constituent in the groundwater at an 75% removal efficiency rate for the constituent.

<sup>bc</sup> The constituent meets the definition of a "carcinogen" at Section 620.110.

<sup>ed</sup> The standard is based on beneficial use for watering livestock, per "*Water Quality Criteria*,"<sup>5</sup> by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>de</sup> The Class II standard is equal to the Class I groundwater quality standard.

<sup>ef</sup> The standard is based on beneficial use for irrigation of crops, per "*Water Quality Criteria*,"<sup>5</sup> by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>fg</sup> The standard is based on beneficial use for watering livestock and irrigation of crops, per "*Water Quality Criteria*,"<sup>5</sup> by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>gh</sup> A treatment factor of 10 is applied to the Class I groundwater quality standard. The constituent's treatment efficiency is based on the effectiveness to treat the constituent in the groundwater at an 90% removal efficiency rate for the constituent.

**620.420(a)(2)**

- Add a footnote stating inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects and renumber existing footnotes.
- Make minor grammatical changes to the footnotes.

Below is a revised Section 620.420(a)(2) table based on the edits above:

<u>CASRN</u>	<u>Constituent</u>	<u>Standard<sup>a,b</sup></u>
7429-90-5	Aluminum	5 <sup>bc</sup>
7440-42-8	Boron	2 <sup>ed</sup>
16887-00-6	Chloride	200 <sup>de</sup>
7440-50-8	Copper	0.5 <sup>bc</sup>

<b>CASRN</b>	<b>Constituent</b>	<b>Standard<sup>a,b</sup></b>
7439-89-6	Iron	5 <sup>de</sup>
7439-96-5	Manganese	10 <sup>ed</sup>
7440-02-0	Nickel	2 <sup>ed</sup>
7440-14-4	Radium (combined 226+228)	5 <sup>ef</sup>
7782-49-2	Selenium	0.02 <sup>ed</sup>
7440-22-4	Silver	0.058 <sup>ef</sup>
14808-79-8	Sulfate	400 <sup>de</sup>
	TDS (total dissolved solids)	1,200 <sup>de</sup>
7440-66-6	Zinc	10 <sup>ed</sup>

#### Constituent Name and Groundwater Quality Standard Notations

<sup>a</sup> The standard units are milligrams per liter (“mg/L”), except for the radium (combined 226+228) unit of picocuries per liter (“pCi/L”).

<sup>b</sup> The inorganic groundwater quality standards are based on total metal analyses for the evaluation of human health effects.

<sup>bc</sup> The standard is based on beneficial use for watering livestock, per “*Water Quality Criteria<sub>2</sub>*”; by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>ed</sup> The standard is based on beneficial use for irrigation of crops, per “*Water Quality Criteria<sub>2</sub>*”; by National Academy of Sciences, incorporated by reference at Section 620.125.

<sup>de</sup> The standard is the 95% confidence concentration stated in Illinois EPA’s “*Integrated Water Quality Report and Section 303(d) List<sub>2</sub>*”; incorporated by reference at Section 620.125.

<sup>ef</sup> The Class II standard is equal to the Class I groundwater quality standard.

#### 620.420(b)

- Revise the proposed 1,3-Dinitrobenzene Class II standard from 0.001 mg/L to 0.0007 mg/L based on updates to the Class I groundwater quality standards at Section 620.410(b). A treatment factor is not applicable for this constituent.
- Revise the proposed 2,4-Dinitrotoluene Class II standard from 0.001 mg/L to 0.00125 mg/L based on updates to the Class I groundwater quality standards at Section 620.410(b). A treatment factor of 5 is applicable for this constituent.
- Revise the proposed 2,6-Dinitrotoluene Class II standard from 0.001 mg/L to 0.0005 mg/L based on updates to the Class I groundwater quality standards at Section 620.410(b). A treatment factor of 5 is applicable for this constituent.
- Revise the proposed 1-Methylnaphthalene Class II standard from 0.27 mg/L to 1.35 mg/L. The proposed Class II standard in the Initial Filing is not based on the application of a treatment factor. Attachment 1J 1 (p. 4,854) in the Initial Filing incorrectly states the constituent’s organic carbon partition coefficient (“K<sub>oc</sub>”) is 0.0129 L/kg and Dimensionless Henry’s Law Constant at 20 °C (“H’”) is 0.021. The corrected values are: K<sub>oc</sub> = 2,530 L/kg, and H’ = 0.0143. The corrected K<sub>oc</sub> value is greater than Ethylbenzene’s K<sub>oc</sub> of 446 L/kg; therefore, it is appropriate to apply a treatment factor of 5 to the Class I standard. The footnote is also updated.

- Revise the proposed 2-Methylnaphthalene Class II standard from 0.015 mg/L to 0.075 mg/L. The proposed Class II standard in the Initial Filing is not based on the application of a treatment factor. Attachment 1J 1 (p. 4,854) in the Initial Filing incorrectly states the constituent's organic carbon partition coefficient ("K<sub>oc</sub>") is 0.0135 L/kg and Dimensionless Henry's Law Constant at 20 °C ("H'") is 0.0212. The corrected values are: K<sub>oc</sub> = 2,480 L/kg, and H' = 0.0135. The corrected K<sub>oc</sub> value is greater than Ethylbenzene's K<sub>oc</sub> of 446 L/kg; therefore, it is appropriate to apply a treatment factor of 5 to the Class I Standard. The footnote is also updated.
- Revise the CASRN for Chlordane from 12798-03-6 to 12789-03-6, due to a transcription error.

Below is a revised Section 620.420(b) table based on the edits above:

<u>CASRN</u>	<u>Constituent</u>	<u>Standard (mg/L)</u>
83-32-9	Acenaphthene	1.2 <sup>a</sup>
67-64-1	Acetone	3.5 <sup>b</sup>
15972-60-8	Alachlor <sup>c</sup>	0.01 <sup>a</sup>
116-06-3	Aldicarb	0.015 <sup>a</sup>
120-12-7	Anthracene	6 <sup>a</sup>
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride) <sup>c</sup>	0.00006 <sup>a</sup>
71-43-2	Benzene <sup>c</sup>	0.025 <sup>a</sup>
56-55-3	Benzo(a)anthracene <sup>d</sup>	0.0012 <sup>a</sup>
205-99-2	Benzo(b)fluoranthene <sup>d</sup>	0.0012 <sup>a</sup>
207-08-9	Benzo(k)fluoranthene <sup>d</sup>	0.012 <sup>a</sup>
50-32-8	Benzo(a)pyrene <sup>d</sup>	0.002 <sup>e</sup>
65-85-0	Benzoic acid	15 <sup>b</sup>
78-93-3	2-Butanone (methyl ethyl ketone)	2.3 <sup>b</sup>
1563-66-2	Carbofuran	0.2 <sup>a</sup>
75-15-0	Carbon disulfide	1.9 <sup>a</sup>
56-23-5	Carbon tetrachloride <sup>c</sup>	0.025 <sup>a</sup>
1279889-03-6	Chlordane <sup>c</sup>	0.01 <sup>a</sup>
108-90-7	Chlorobenzene	0.5 <sup>a</sup>
67-66-3	Chloroform <sup>c</sup>	0.35 <sup>a</sup>
218-01-9	Chrysene <sup>d</sup>	0.12 <sup>a</sup>
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)	0.35 <sup>a</sup>
75-99-0	Dalapon	2.0 <sup>e</sup>
53-70-3	Dibenzo(a,h)anthracene <sup>d</sup>	0.0005 <sup>a</sup>
96-12-8	1,2-Dibromo-3-chloropropane <sup>d</sup>	0.002 <sup>e</sup>
1918-00-9	Dicamba	0.12 <sup>b</sup>
95-50-1	<i>o</i> -Dichlorobenzene (1,2-dichlorobenzene)	1.5 <sup>f</sup>

<u>CASRN</u>	<u>Constituent</u>	<u>Standard (mg/L)</u>
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene) <sup>c</sup>	0.375 <sup>a</sup>
75-71-8	Dichlorodifluoromethane	3.9 <sup>a</sup>
75-34-3	1,1-Dichloroethane	3.9 <sup>a</sup>
107-06-2	1,2-Dichloroethane <sup>c</sup>	0.025 <sup>a</sup>
75-35-4	1,1-Dichloroethylene	0.035 <sup>a</sup>
156-59-2	<i>cis</i> -1,2-Dichloroethylene	0.2 <sup>g</sup>
156-60-5	<i>trans</i> -1,2-Dichloroethylene	0.5 <sup>a</sup>
75-09-2	Dichloromethane (methylene chloride) <sup>d</sup>	0.025 <sup>a</sup>
78-87-5	1,2-Dichloropropane <sup>b</sup>	0.025 <sup>a</sup>
117-81-7	Di(2-ethylhexyl)phthalate <sup>b</sup>	0.06 <sup>c</sup>
84-66-2	Diethyl phthalate	3.1 <sup>b</sup>
84-74-2	Di- <i>n</i> -butyl phthalate	1.9 <sup>a</sup>
99-65-0	1,3-Dinitrobenzene	<del>0.001</del> 0.0007 <sup>b</sup>
121-14-2	2,4-Dinitrotoluene <sup>c</sup>	<del>0.005</del> 0.00125 <sup>a</sup>
606-20-2	2,6-Dinitrotoluene <sup>c</sup>	<del>0.005</del> 0.0005 <sup>a</sup>
88-85-7	Dinoseb	0.07 <sup>c</sup>
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane) <sup>c</sup>	0.00078 <sup>b</sup>
145-73-3	Endothall	0.1 <sup>b</sup>
72-20-8	Endrin	0.01 <sup>a</sup>
100-41-4	Ethylbenzene <sup>c</sup>	1.0 <sup>h</sup>
106-93-4	Ethylene dibromide (1,2-dibromoethane) <sup>c</sup>	0.0005 <sup>c</sup>
206-44-0	Fluoranthene	0.75 <sup>a</sup>
86-73-7	Fluorene	0.75 <sup>a</sup>
58-89-9	<i>gamma</i> -HCH ( <i>gamma</i> -hexachlorocyclohexane, lindane) <sup>c</sup>	0.001 <sup>a</sup>
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)	0.000012 <sup>b</sup>
2691-41-0	HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	3.9 <sup>a</sup>
76-44-8	Heptachlor <sup>c</sup>	0.002 <sup>a</sup>
1024-57-3	Heptachlor epoxide <sup>c</sup>	0.001 <sup>a</sup>
77-47-4	Hexachlorocyclopentadiene	0.5 <sup>c</sup>
193-39-5	Indeno(1,2,3- <i>c,d</i> )pyrene <sup>d</sup>	0.0012 <sup>a</sup>
98-82-8	Isopropylbenzene (cumene) <sup>c</sup>	1.9 <sup>a</sup>
93-65-2	MCPP (mecoprop)	0.1 <sup>b</sup>
1634-04-4	MTBE (methyl tertiary-butyl ether)	0.5 <sup>c</sup>
72-43-5	Methoxychlor	0.2 <sup>a</sup>
90-12-0	1-Methylnaphthalene	<del>0.27</del> <sup>b</sup> 1.35 <sup>a</sup>
91-57-6	2-Methylnaphthalene	<del>0.015</del> <sup>b</sup> 0.075 <sup>a</sup>
95-48-7	2-Methylphenol ( <i>o</i> -cresol)	0.19 <sup>b</sup>
91-20-3	Naphthalene	0.39 <sup>a</sup>

<u>CASRN</u>	<u>Constituent</u>	<u>Standard (mg/L)</u>
98-95-3	Nitrobenzene	0.0077 <sup>b</sup>
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl) <sup>c</sup>	0.0025 <sup>a</sup>
375-73-5	PFBS (perfluorobutanesulfonic acid)	0.0012 <sup>b</sup>
355-46-4	PFHxS (perfluorohexanesulfonic acid)	0.000077 <sup>b</sup>
375-95-1	PFNA (perfluorononanoic acid)	0.000012 <sup>b</sup>
335-67-1	PFOA (perfluorooctanoic acid) <sup>c</sup>	0.000002 <sup>b</sup>
1763-23-1	PFOS (perfluorooctanesulfonic acid)	0.0000077 <sup>b</sup>
87-86-5	Pentachlorophenol	0.005 <sup>a</sup>
108-95-2	Phenol	0.1 <sup>i</sup>
1918-02-1	Picloram	5.0 <sup>e</sup>
129-00-0	Pyrene	0.6 <sup>a</sup>
121-82-4	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.062 <sup>b</sup>
122-34-9	Simazine	0.04 <sup>e</sup>
100-42-5	Styrene	0.5 <sup>a</sup>
118-96-7	TNT (2,4,6-trinitrotoluene)	0.039 <sup>a</sup>
93-72-1	2,4,5-TP (silvex)	0.25 <sup>a</sup>
127-18-4	Tetrachloroethylene <sup>c</sup>	0.025 <sup>a</sup>
108-88-3	Toluene	2.5 <sup>f</sup>
8001-35-2	Toxaphene <sup>c</sup>	0.015 <sup>a</sup>
120-82-1	1,2,4-Trichlorobenzene	0.7 <sup>e</sup>
71-55-6	1,1,1-Trichloroethane	1 <sup>a</sup>
79-00-5	1,1,2-Trichloroethane	0.05 <sup>e</sup>
79-01-6	Trichloroethylene <sup>d</sup>	0.025 <sup>a</sup>
75-69-4	Trichlorofluoromethane	6 <sup>a</sup>
99-35-4	1,3,5-Trinitrobenzene	2.3 <sup>a</sup>
75-01-4	Vinyl chloride <sup>d</sup>	0.01 <sup>a</sup>
1330-20-7	Xylenes	10 <sup>b</sup>

## 620. Appendix C

Subsection (a): Add the word “or” following Subsection (a)(1), to state substances shall be considered similar-acting if either Subsection (a)(1) or Subsection (a)(2) applies. This is to clearly state that either subsections (1) or (2) apply when substances shall be considered similar-acting.

The basis of the edit is:

Statement of Reasons, dated September 21, 1989, for Illinois Pollution Control Board (“IPCB”) Rulemaking R89-14: In the Matter Of: Groundwater Quality Standards (35 Ill. Adm. Code 620), (p. 35), states:

“Subsection (a) of Appendix C describes instances in which substances will be considered to be similar-acting. This will occur when it can be shown that the substances have the same target in an organism or when the substances have the same mechanism of toxicity.”

Prefiled Testimony by Thomas C. Hornshaw, dated November 30, 1989 (p. 15-16), written for IPCB Rulemaking R89-14, states:

“Section 620. Appendix C sets forth guidance for determining when two or more chemical substances in a mixture shall be considered to be similar-acting. This guidance is provided since the use of the dose addition model in Appendix B to address the combined toxicities of two or more chemicals in a mixture is the most appropriate when the chemical cause the same toxic effect by the same or similar mode of action.

Subsection (a) of Appendix C describes instances in which substances will be considered to be similar-acting. This will occur when it can be shown that the substances have the same physiological target in an organism or when the substances have the same pharmacological mechanism of toxicity.”

IPCB’s Final Opinion and Order for IPCB R89-14(B), dated November 7, 1991, p. 21, states:

“Because the Health Advisory Provision and its attendant Appendices have been presented to the Board without apparent controversy, and because the Board has not itself proposed substantive amendment to the Agency’s version, the Board will not here discuss these matters further. This interested person is directed to the Agency’s Statement of Reasons, page 28-36, for more discussion and explanation.”

Below is proposed revised language:

**Section 620.APPENDIX C Guidelines for Determining When Dose Addition of Similar-Acting Substances in Class I: Potable Resource Groundwaters is Appropriate**

- a) Substances shall be considered similar-acting if:
  - 1) The substances have the same target in an organism (for example, the same organ, organ system, receptor, or enzyme); or
  - 2) The substances have the same mode of toxic action. These actions may include, for example, central nervous system depression, liver toxicity, or cholinesterase inhibition.



**620.Appendix E**

The Agency re-evaluated the constituents listed in the tables at Appendix E and compared the toxicity endpoints to the most recent information (November 2022 updates) listed in U.S. EPA's Regional Screening Level ("RSL") toxicity metadata. The tables at Appendix E are revised as follows:

Table A: Similar-acting Noncarcinogen Constituents

- Circulatory System

Remove the following Constituents:

CASRN	Constituent
1912-24-9	Atrazine
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
355-46-4	PFHxS (perfluorohexanesulfonic acid)
156-60-5	<i>trans</i> -1,2-Dichloroethylene

Add the following Constituents:

CASRN	Constituent
15972-60-8	Alachlor
71-43-2	Benzene
121-14-2	2,4-Dinitrotoluene
14797-55-8	Nitrate as N

- Decreased Body Weight

Remove the following Constituents:

CASRN	Constituent
1912-24-9	Atrazine
78-93-3	2-Butanone (methyl ethyl ketone)
375-95-1	PFNA (perfluorononanoic acid)

- Developmental

Remove the following Constituents:

CASRN	Constituent
7440-47-3	Chromium (as chromium VI)
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
355-46-4	PFHxS (perfluorohexanesulfonic acid)
79-01-6	Trichloroethylene

Add the following Constituents:

CASRN	Constituent
50-32-8	Benzo(a)pyrene
7440-42-8	Boron
78-87-5	1,2-Dichloropropane

- Add Endocrine System with the following Constituents

CASRN	Constituent
106-93-4	Ethylene dibromide (1,2-dibromoethane)
120-82-1	1,2,4-Trichlorobenzene

- Gastrointestinal System

Add the following Constituents:

CASRN	Constituent
7440-50-8	Copper
7439-89-6	Iron

- Immune System

Remove the following Constituents:

CASRN	Constituent
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl)

Add the following Constituents:

CASRN	Constituent
58-89-9	<i>gamma</i> -HCH ( <i>gamma</i> -hexachlorocyclohexane, lindane)
76-44-8	Heptachlor
375-95-1	PFNA (perfluorononanoic acid)

- Kidney

Remove the following Constituents:

CASRN	Constituent
100-41-4	Ethylbenzene
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
375-73-5	PFBS (perfluorobutanesulfonic acid)

Add the following Constituents:

CASRN	Constituent
7440-39-3	Barium
107-06-2	1,2-Dichloroethane
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane)

- Liver

Revise the CASRN for Chlordane from 12798-03-6 to 12789-03-6, due to a transcription error.

Remove the following Constituents:

CASRN	Constituent
7440-36-0	Antimony
355-46-4	PFHxS (perfluorohexanesulfonic acid)
375-95-1	PFNA (perfluorononanoic acid)
1763-23-1	PFOS (perfluorooctanesulfonic acid)
335-67-1	PFOA (perfluorooctanoic acid)
79-00-5	1,1,2-Trichloroethane

Add the following Constituents:

CASRN	Constituent
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride)
56-23-5	Carbon tetrachloride
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)
75-09-2	Dichloromethane (methylene chloride)
117-81-7	Di(2-ethylhexyl)phthalate
121-14-2	2,4-Dinitrotoluene
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane)
106-93-4	Ethylene dibromide (1,2-dibromoethane)
87-86-5	Pentachlorophenol
75-01-4	Vinyl chloride

- Lungs

Revise the Constituents to place them in numerical order.

- Add Mortality with the following Constituents:

CASRN	Constituent
84-74-2	Di- <i>n</i> -butyl phthalate
1330-20-7	Xylenes

- Nervous System

Remove the following Constituents:

CASRN	Constituent
7429-90-5	Aluminum
7440-39-3	Barium
1763-23-1	PFOS (perfluorooctanesulfonic acid)

Add the following Constituents:

CASRN	Constituent
121-14-2	2,4-Dinitrotoluene
127-18-4	Tetrachloroethylene

- Reproductive System

Remove the following Constituents:

CASRN	Constituent
7440-47-3	Chromium (as chromium VI)
375-73-5	PFBS (perfluorobutanesulfonic acid)
1763-23-1	PFOS (perfluorooctanesulfonic acid)
108-95-2	Phenol

Add the following Constituents:

CASRN	Constituent
1912-24-9	Atrazine
96-12-8	1,2-Dibromo-3-chloropropane (dibromochloropropane)
106-93-4	Ethylene dibromide (1,2-dibromoethane)

- Skin

Remove the following constituent:

CASRN	Constituent
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl)

- Spleen

Add the following constituent:

CASRN	Constituent
606-20-2	2,6-Dinitrotoluene

- Whole Body

Remove the following Constituents:

CASRN	Constituent
84-74-2	Di- <i>n</i> -butyl phthalate
1330-20-7	Xylenes

Add the following Constituents:

CASRN	Constituent
95-50-1	<i>o</i> -Dichlorobenzene (1,2-dichlorobenzene)
206-44-0	Fluoranthene
7782-49-2	Selenium
79-00-5	1,1,2-Trichloroethane

Included as Attachment 16 is a revised table based on the RSL toxicity data. It is intended to replace Attachment 1K 1 (p. 4,866) in the December 7, 2021, Initial Filing.

Below is a revised Appendix E, Table A, based on the edits above:

Table A: Similar-acting Noncarcinogenic Constituents

<b><u>Cholinesterase Inhibition</u></b>	
116-06-3	Aldicarb
1563-66-2	Carbofuran
<b><u>Circulatory System</u></b>	
15972-60-8	Alachlor
7440-36-0	Antimony
7440-38-2	Arsenic
1912-24-9	Atrazine
71-43-2	Benzene
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)
121-14-2	2,4-Dinitrotoluene
206-44-0	Fluoranthene
86-73-7	Fluorene
13252-13-6	HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)
14797-55-8	Nitrate as N
98-95-3	Nitrobenzene
355-46-4	PFHxS (perfluorohexanesulfonic acid)
122-34-9	Simazine
100-42-5	Styrene
156-60-5	<i>trans</i> -1,2-Dichloroethylene
79-01-6	Trichloroethylene
99-35-4	1,3,5-Trinitrobenzene
7440-66-6	Zinc
<b><u>Decreased Body Weight</u></b>	
1912-24-9	Atrazine
78-93-3	2-Butanone (methyl ethyl ketone)
75-71-8	Dichlorodifluoromethane
84-66-2	Diethyl phthalate
95-48-7	2-Methylphenol ( <i>o</i> -cresol)
91-20-3	Naphthalene
7440-02-0	Nickel
375-95-1	PFNA (perfluorononanoic acid)
108-95-2	Phenol
122-34-9	Simazine
71-55-6	1,1,1-Trichloroethane
1330-20-7	Xylenes

<b><u>Developmental</u></b>	
<u>7429-90-5</u>	Aluminum
<u>50-32-8</u>	<u>Benzo(a)pyrene</u>
<u>7440-42-8</u>	<u>Boron</u>
<u>78-93-3</u>	2-Butanone (methyl ethyl ketone)
<u>75-15-0</u>	Carbon disulfide
<u>7440-47-3</u>	<u>Chromium (as chromium VI)</u>
<u>78-87-5</u>	<u>1,2-Dichloropropane</u>
<u>84-66-2</u>	Diethyl phthalate
<u>88-85-7</u>	Dinoseb
<u>13252-13-6</u>	<u>HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)</u>
<u>7439-93-2</u>	Lithium
<u>375-73-5</u>	PFBS (perfluorobutanesulfonic acid)
<u>355-46-4</u>	<u>PFHxS (perfluorohexanesulfonic acid)</u>
<u>375-95-1</u>	PFNA (perfluorononanoic acid)
<u>1763-23-1</u>	PFOS (perfluorooctanesulfonic acid)
<u>335-67-1</u>	PFOA (perfluorooctanoic acid)
<u>79-01-6</u>	<u>Trichloroethylene</u>
<b><u>Endocrine System</u></b>	
<u>106-93-4</u>	<u>Ethylene dibromide (1,2-dibromoethane)</u>
<u>120-82-1</u>	<u>1,2,4-Trichlorobenzene</u>
<b><u>Gastrointestinal System</u></b>	
<u>7440-41-7</u>	Beryllium
<u>7440-50-8</u>	<u>Copper</u>
<u>145-73-3</u>	Endothall
<u>77-47-4</u>	Hexachlorocyclopentadiene
<u>7439-89-6</u>	<u>Iron</u>
<u>1634-04-4</u>	MTBE (methyl tertiary-butyl-ether)
<b><u>Immune System</u></b>	
<u>156-60-5</u>	<u>trans-1,2-Dichloroethylene</u>
<u>58-89-9</u>	<u>gamma-HCH (gamma-hexachlorocyclohexane, lindane)</u>
<u>7487-94-7</u>	Mercury (mercuric chloride)
<u>13252-13-6</u>	<u>HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)</u>
<u>76-44-8</u>	<u>Heptachlor</u>
<u>1336-36-3</u>	<u>PCBs (polychlorinated biphenyls as decachloro-biphenyl)</u>
<u>355-46-4</u>	PFHxS (perfluorohexanesulfonic acid)
<u>375-95-1</u>	<u>PFNA (perfluorononanoic acid)</u>
<u>1763-23-1</u>	PFOS (perfluorooctanesulfonic acid)
<u>335-67-1</u>	PFOA (perfluorooctanoic acid)
<b><u>Kidney</u></b>	

<u>7440-39-3</u>	<u>Barium</u>
7440-43-9	Cadmium
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)
75-99-0	Dalapon
75-34-3	1,1-Dichloroethane
<u>107-06-2</u>	<u>1,2-Dichloroethane</u>
156-59-2	<i>cis</i> -1,2-Dichloroethylene
<u>123-91-1</u>	<u>1,4-Dioxane (<i>p</i>-dioxane)</u>
100-41-4	Ethylbenzene
206-44-0	Fluoranthene
<u>13252-13-6</u>	<u>HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)</u>
98-82-8	Isopropylbenzene (cumene)
7439-93-2	Lithium
93-65-2	MCCP (mecoprop)
7487-94-7	Mercury (mercuric chloride)
7439-98-7	Molybdenum
<u>375-73-5</u>	<u>PFBS (perfluorobutanesulfonic acid)</u>
129-00-0	Pyrene
108-88-3	Toluene
7440-62-2	Vanadium
<b><u>Liver</u></b>	
83-32-9	Acenaphthene
<u>7440-36-0</u>	<u>Antimony</u>
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride)
<u>56-23-5</u>	<u>Carbon Tetrachloride</u>
<u>1279889-03-6</u>	Chlordane
108-90-7	Chlorobenzene
67-66-3	Chloroform
94-75-7	2,4-D (2,4-dichlorophenoxy acetic acid)
<u>106-46-7</u>	<u><i>p</i>-Dichlorobenzene (1,4-dichlorobenzene)</u>
75-35-4	1,1-Dichloroethylene
<u>75-09-2</u>	<u>Dichloromethane (methylene chloride)</u>
<u>117-81-7</u>	<u>Di(2-ethylhexyl)phthalate</u>
<u>121-14-2</u>	<u>2,4-Dinitrotoluene</u>
<u>123-91-1</u>	<u>1,4-Dioxane (<i>p</i>-dioxane)</u>
72-20-8	Endrin
100-41-4	Ethylbenzene
<u>106-93-4</u>	<u>Ethylene dibromide (1,2-dibromoethane)</u>
206-44-0	Fluoranthene
<u>13252-13-6</u>	<u>HFPO-DA (hexafluoropropylene oxide dimer acid, GenX)</u>
2691-41-0	HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
1024-57-3	Heptachlor Epoxide

<u>1634-04-4</u>	MTBE (methyl tertiary-butyl ether)
<u>355-46-4</u>	PFHxS (perfluorohexanesulfonic acid)
<u>375-95-1</u>	PFNA (perfluorononanoic acid)
<u>1763-23-1</u>	PFOS (perfluorooctanesulfonic acid)
<u>335-67-1</u>	PFOA (perfluorooctanoic acid)
<u>87-86-5</u>	<u>Pentachlorophenol</u>
<u>1918-02-1</u>	Picloram
<u>100-42-5</u>	Styrene
<u>118-96-7</u>	TNT (2,4,6-trinitrotoluene)
<u>93-72-1</u>	2,4,5-TP (silvex)
<u>79-00-5</u>	<u>1,1,2-Trichloroethane</u>
<u>75-01-4</u>	<u>Vinyl Chloride</u>
<b><u>Lungs</u></b>	
<u>91-57-6</u>	<u>2-Methylnaphthalene</u>
<u>90-12-0</u>	1-Methylnaphthalene
<u>91-57-6</u>	<u>2-Methylnaphthalene</u>
<b><u>Mortality</u></b>	
<u>84-74-2</u>	<u>Di-n-butyl phthalate</u>
<u>1330-20-7</u>	<u>Xylenes</u>
<b><u>Nervous System</u></b>	
<u>67-64-1</u>	Acetone
<u>7429-90-5</u>	Aluminum
<u>7440-39-3</u>	Barium
<u>121-14-2</u>	<u>2,4-Dinitrotoluene</u>
<u>72-20-8</u>	Endrin
<u>7439-93-2</u>	Lithium
<u>7439-96-5</u>	Manganese
<u>95-48-7</u>	2-Methylphenol ( <i>o</i> -cresol)
<u>1763-23-1</u>	PFOS (perfluorooctanesulfonic acid)
<u>121-82-4</u>	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
<u>127-18-4</u>	<u>Tetrachloroethylene</u>
<b><u>Reproductive System</u></b>	
<u>1912-24-9</u>	<u>Atrazine</u>
<u>96-12-8</u>	<u>1,2-Dibromo-3-chloropropane</u>
<u>1563-66-2</u>	Carbofuran
<u>75-15-0</u>	Carbon disulfide
<u>7440-47-3</u>	Chromium (as chromium VI)
<u>143-33-9</u>	Cyanide (sodium cyanide)
<u>1918-00-9</u>	Dicamba
<u>106-93-4</u>	<u>Ethylene dibromide (1,2-dibromoethane)</u>



7439-93-2	Lithium
72-43-5	Methoxychlor
375-73-5	PFBS (perfluorobutanesulfonic acid)
1763-23-1	PFOS (perfluorooctanesulfonic acid)
108-95-2	Phenol
<b>Skin</b>	
7440-38-2	Arsenic
1336-36-3	PCBs (polychlorinated biphenyls as decachloro biphenyl)
7440-22-4	Silver
7440-28-0	Thallium
<b>Spleen</b>	
99-65-0	1,3-Dinitrobenzene
606-20-2	2,6-Dinitrotoluene
99-35-4	1,3,5-Trinitrobenzene
<b>Thyroid</b>	
7440-48-4	Cobalt
14797-73-0	Perchlorate
355-46-4	PFHxS (perfluorohexanesulfonic acid)
375-73-5	PFBS (perfluorobutanesulfonic acid)
8001-35-2	Toxaphene
<b>Whole Body</b>	
120-12-7	Anthracene
7440-36-0	Antimony
65-85-0	Benzoic Acid
95-50-1	<i>o</i> -Dichlorobenzene (1,2-dichlorobenzene)
84-74-2	Di- <i>n</i> -butyl phthalate
206-44-0	Fluoranthene
7782-49-2	Selenium
79-00-5	1,1,2-Trichloroethane
75-69-4	Trichlorofluoromethane
1330-20-7	Xylenes

Table B: Similar-acting Carcinogen Constituents

- Revise the CASRN for Chlordane from 12798-03-6 to 12789-03-6, due to a transcription error.

Table B: Similar-acting Carcinogenic Constituents

<b>Circulatory System</b>	
71-43-2	Benzene
107-06-2	1,2-Dichloroethane
106-93-4	Ethylene dibromide (1,2-dibromoethane)

<b><u>Gastrointestinal System</u></b>	
56-55-3	Benzo(a)anthracene
205-99-2	Benzo(b)fluoranthene
207-08-9	Benzo(k)fluoranthene
50-32-8	Benzo(a)pyrene
218-01-9	Chrysene
53-70-3	Dibenzo(a,h)anthracene
106-93-4	Ethylene dibromide (1,2-dibromoethane)
193-39-5	Indeno(1,2,3-c,d)pyrene
<b><u>Kidney</u></b>	
67-66-3	Chloroform
96-12-8	1,2-Dibromo-3-chloropropane (dibromochloropropane)
121-14-2	2,4-Dinitrotoluene
606-20-0	2,6-Dinitrotoluene
100-41-4	Ethylbenzene
79-01-6	Trichloroethylene
<b><u>Liver</u></b>	
319-84-6	<i>alpha</i> -BHC ( <i>alpha</i> -benzene hexachloride)
56-23-5	Carbon tetrachloride
1279889-03-6	Chlordane
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)
75-09-2	Dichloromethane (methylene chloride)
78-87-5	1,2-Dichloropropane
117-81-7	Di(2-ethylhexyl)phthalate
121-14-2	2,4-Dinitrotoluene
606-20-0	2,6-Dinitrotoluene
123-91-1	1,4-Dioxane ( <i>p</i> -dioxane)
58-89-9	<i>gamma</i> -HCH ( <i>gamma</i> -hexachlorocyclohexane, lindane)
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
1336-36-3	PCBs (polychlorinated biphenyls as decachloro-biphenyl)
335-67-1	PFOA (perfluorooctanoic acid)
87-86-5	Pentachlorophenol
127-18-4	Tetrachloroethylene
8001-35-2	Toxaphene
79-01-6	Trichloroethylene
75-01-4	Vinyl Chloride
<b><u>Mammary Gland</u></b>	
121-14-2	2,4-Dinitrotoluene
606-20-0	2,6-Dinitrotoluene

WHEREFORE, the Illinois EPA asks the Board to accept the Agency's Errata Sheet.

Respectfully submitted,

Dated: March 3, 2023

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY,

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BY: /s/ Sara Terranova

**CERTIFICATE OF SERVICE**

I, the undersigned, on affirmation state the following:

That I have served the attached **NOTICE OF FILING** and **ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ERRATA SHEET** by e-mail upon the attached service list.

That my e-mail address is: Sara.Terranova@illinois.gov.

That the e-mail transmission took place before 4:30 p.m. on the date of March 3, 2023.

/s/ Sara Terranova

March 3, 2023