

OFFICE OF THE SECRETARY OF STATE

JESSE WHITE • Secretary of State

November 4, 2011

CLERK'S OFFICE

NOV 1 0 2011

STATE OF ILLINOIS
Pollution Control Board

POLLUTION CONTROL BOARD JOHN THERRIAULT ASSISTANT CLERK 100 W RANDOLPH ST, STE 11-500 CHICAGO, IL 60601

Dear JOHN THERRIAULT ASSISTANT CLERK

Your rules Listed below met our codification standards and have been published in Volume 35, Issue 46 of the Illinois Register, dated 11/14/2011.

ADOPTED RULES

IED RULES		
Nitrogen Oxides Emissions 35 Ill. Adm. Code 217	18801	R09-19
Point of Contact: Nancy Miller	10001	
Organic Material Emission Standards and Limitations for the Chicago Area 35 Ill. Adm. Code 218 Point of Contact: Nancy Miller	18813	R 11-23A
Organic Material Emission Standards and Limitations for the Metro East Area 35 Ill. Adm. Code 219 Point of Contact: Nancy Miller	18830	R11-23A
Standards and Limitations for Organic Material Emissions for Area Sources 35 Ill. Adm. Code 223 Point of Contact: Nancy Miller	18846	R09-19
Air Quality Standards 35 Ill. Adm. Code 243 Point of Contact: Nancy Miller	18857	R09-19
Solid Waste 35 Ill. Adm. Code 807 Point of Contact: Nancy Miller	18867	R10-9A)
Standards for New Solid Waste Landfills 35 Ill. Adm. Code 811	18882	R10-9(A)

Index Department - Administrative Code Division - 111 East Monroe Springfield, IL 62756



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Point of Contact: Nancy Miller

PROPOSED RULES

Proceedings Pursuant to Specific Rules or Statutory Provisions

35 Ill. Adm. Code 106

Point of Contact: Nancy Miller

Groundwater Quality

35 Ill. Adm. Code 620

Point of Contact: Nancy Miller

18492 R12-11
18502 R08-18

If you have any questions, you may contact the Administrative Code Division at (217) 782 - 7017.

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ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

1) <u>Heading of the Part</u>: Groundwater Quality

2) <u>Code Citation</u>: 35 Ill. Adm. Code 620

3)

CLERK'S OFFICE
NOV 1 0 2011
STATE OF ILLINOIS Pollution Control Board

Section Numbers:	Proposed Action:
620.110	Amend
620.125	Amend
620.201	Amend
620.210	Amend
620.302	Amend
620.310	Amend
620.410	Amend
620.420	Amend
620.440	Amend
620.450	Amend
620.505	Amend
620.510	Amend
620.605	Amend
620.Appendix A	Amend
620.Appendix B	Amend
620.Appendix C	Amend
620.Appendix D	Amend

- 4) <u>Statutory Authority</u>: Implementing and authorized by Section 8 of the Illinois Groundwater Protection Act [415 ILCS 55/8] and Section 27 of the Environmental Protection Act [415 ILCS 5/27].
- A Complete Description of the Subjects and Issues Involved: The proposed amendments update the groundwater quality rules (35 Ill. Adm. Code 620) based upon new scientific data, federal amendments, and technical references. The changes proposed for first notice add groundwater quality standards for those chemical constituents detected in Illinois groundwater that have toxicity values established by the United States Environmental Protection Agency (USEPA) or that have groundwater remediation objectives under the Tiered Approach to Corrective Action Objectives (TACO) (35 Ill. Adm. Code 742). In all, 39 chemical constituents are added to Part 620. Additionally, the Class I groundwater quality standard for arsenic is revised from 0.05 milligrams per liter (mg/L) to 0.010 mg/L in order to reflect the new federal Maximum Contaminant Level (MCL) for arsenic in drinking water. Also included are amendments to various definitions, provisions for preventive response levels, compliance determinations,

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POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

monitoring and analytical requirements, and health advisories, as well as Part 620 Appendices A through D. For a more detailed discussion of these amendments, please refer to the Board's October 20, 2001 opinion and order in docket R08-18, <u>Proposed Amendments to Groundwater Quality Standards (35 Ill. Adm. Code 620)</u>.

6) <u>Published studies or reports and sources of underlying data, used to compose this rulemaking:</u>

"Standard Practice for Classification of Soils for Engineering Purposes (Unified Classification System)" ASTM D2487-06. The material is prepared by and available from ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.

"Guidance Document for Groundwater Protection Needs Assessments (January 1995)," prepared by the Illinois Environmental Protection Agency (IEPA), Illinois State Water Survey, and Illinois State Geologic Survey and available from IEPA, 1020 N. Grand Ave. East, PO Box 19276, Springfield, IL 62794-9276.

"The Illinois Wellhead Protection Program Pursuant to Section 1428 of the Federal Safe Drinking Water Act (#22480, October 1992)," prepared by and available from IEPA, 1020 N. Grand Ave. East, PO Box 19276, Springfield, IL 62794-9276.

"Methods for Chemical Analysis of Water and Wastes (March 1983)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Inorganic Substances in Environmental Samples (August 1993)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Metals in Environmental Samples (June 1991)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Metals in Environmental Samples-Supplement I (May 1994)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Organic Compounds in Drinking Water (revised July 1991)," prepared by USEPA and available from National Technical Information

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Organic Compounds in Drinking Water, Supplement I (July 1990)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Organic Compounds in Drinking Water, Supplement II (August 1992)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Organic Compounds in Drinking Water, Supplement III (August 1995)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Methods for the Determination of Organic and Inorganic Compounds in Drinking Water: Volume I (August 2000)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Prescribed Procedures for Measurement of Radioactivity in Drinking Water (August 1980)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://nepis.epa.gov/.

"Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions (May 1973)," prepared by H.L. Krieger and S. Gold and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

"Radiochemical Analytical Procedures for Analysis of Environmental Samples (March 1979)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

"Radiochemistry Procedures Manual (December 1987)," prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," USEPA Publication No. SW-846, as amended by Updates I, II, IIA, IIB, III, IIIA, and IIIB,

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

prepared by USEPA and available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or online at http://www.epa.gov/epaoswer/hazwaste/test/main.htm.

"Water Quality Criteria 1972," prepared by National Academy of Sciences, Washington D.C., available from USEPA's National Service Center for Environmental Publications http://www.epa.gov/nscep/index.html

- 7) Will these proposed amendments replace an emergency rule currently in effect? No.
- 8) Do these amendments contain an automatic repeal date? No.
- 9) Do these proposed amendments contain incorporations by reference? Yes.
- 10) Are there any other proposed amendments pending on this Part? No.
- 11) <u>Statement of Statewide Policy Objectives</u>: These proposed amendments do not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)].
- Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the Illinois Register. Comments should refer to docket R08-18 and be addressed to:

Clerk's Office Illinois Pollution Control Board 100 W. Randolph St., Suite 11-500 Chicago, IL 60601

Interested persons may request copies of the Board's opinion and order in R08-18 by calling the Clerk's office at 312-814-3620, or may download copies from the Board's Web site at www.ipcb.state.il.us. For more information, contact hearing officer Richard McGill at 312/814-6983 or e-mail mcgillr@ipcb.state.il.us.

- 13) Initial Regulatory Flexibility Analysis:
 - A) Types of small businesses, small municipalities and not for profit corporations affected: It is not anticipated that the proposed amendments would have a significant impact on any small business, small municipality, or not-for-profit

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

corporation. Facilities that may be impacted would include those that cause, threaten, or allow the contamination of groundwater. However, the proposed amendments do not establish new corrective action or monitoring programs, and new chemical constituent standards would be phased into existing programs, as appropriate, on a site-by-site basis over time. Any economic impact resulting from applying the new standards therefore should be incremental. Considering the groundwater resource and its end users, economic benefits may result from adopting these new standards, including reduced health risks, reduced expenses for treating water at wellheads, and reduced expenses for obtaining water supplies.

- B) Reporting, bookkeeping or other procedures required for compliance: No additional reporting or bookkeeping will be required for compliance beyond what is already required for preventative notification procedures (Section 620.305), preventative response activities (Section 620.310), and reporting associated with monitoring and analytical requirements (Section 620.510).
- C) <u>Types of Professional skills necessary for compliance:</u> No professional skills will be necessary beyond those currently required by the existing regulations applicable to affected facilities. These may include the services of a licensed professional engineer, a licensed professional geologist, and an attorney.
- 14) <u>Regulatory Agenda in which these amendments were summarized:</u> Illinois Register Volume 35, Issue 25 (June 17, 2011) at pages 9159-61

The full text of the Proposed Amendments begins on the next page:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE F: PUBLIC WATER SUPPLIES CHAPTER I: POLLUTION CONTROL BOARD

PART 620 GROUNDWATER QUALITY

CLIDDADE A. CENEDAL

	SUBPART A: GENERAL
Section	
620.105	Purpose
620.110	Definitions
620.115	Prohibition
620.125	Incorporations by Reference
620.130	Exemption from General Use Standards and Public and Food Processing
	Water Supply Standards
620.135	Exclusion for Underground Waters in Certain Man-Made Conduits
	SUBPART B: GROUNDWATER CLASSIFICATION
Section	
620.201	Groundwater Designations
620.210	Class I: Potable Resource Groundwater
620.220	Class II: General Resource Groundwater
620.230	Class III: Special Resource Groundwater
620.240	Class IV: Other Groundwater
620.250	Groundwater Management Zone
620.260	Reclassification of Groundwater by Adjusted Standard
	SUBPART C: NONDEGRADATION PROVISIONS FOR APPROPRIATE GROUNDWATERS
Section	
620.301	General Prohibition Against Use Impairment of Resource Groundwater
620.302	Applicability of Preventive Notification and Preventive Response

SUBPART D: GROUNDWATER QUALITY STANDARDS

Activities

620.305 620.310 Preventive Notification Procedures

Preventive Response Activities

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Section	
620.401	Applicability
620.405	General Prohibitions Against Violations of Groundwater Quality
	Standards
620.410	Groundwater Quality Standards for Class I: Potable Resource
	Groundwater
620.420	Groundwater Quality Standards for Class II: General Resource
	Groundwater
620.430	Groundwater Quality Standards for Class III: Special Resource
	Groundwater
620.440	Groundwater Quality Standards for Class IV: Other Groundwater
620.450	Alternative Groundwater Quality Standards

SUBPART E: GROUNDWATER MONITORING AND ANALYTICAL PROCEDURES

Section	
620.505	Compliance Determination
620.510	Monitoring and Analytical Requirements

SUBPART F: HEALTH ADVISORIES

Section	
620.601	Purpose of a Health Advisory
620.605	Issuance of a Health Advisory
620.610	Publishing Health Advisories
620.615	Additional Health Advice for Mixtures of Similar-Acting Substances
620.Appendix A	Procedures for Determining Human Threshold Toxicant Advisory
	Concentration for Class I: Potable Resource Groundwater
620.Appendix B	Procedures for Determining Hazard Indices for Class I: Potable
	Resource Groundwater for Mixtures of Similar-Acting Substances
620.Appendix C	Guidelines for Determining When Dose Addition of Similar-Acting
	Substances in Class I: Potable Resource Groundwaters is
	Appropriate
620.Appendix D	Confirmation of an Adequate Corrective Action Pursuant to 35 Ill.
	Adm. Code 620.250(a)(2)

AUTHORITY: Implementing and authorized by Section 8 of the Illinois Groundwater Protection Act [415 ILCS 55/8] and authorized by Section 27 of the Illinois Environmental Protection Act [415 ILCS 5/27].

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

SOURCE: Adopted in R89-14(B) at 15 III. Reg. 17614, effective November 25, 1991; amended in R89-14(C) at 16 III. Reg. 14667, effective September 11, 1992; amended at 18 III. Reg. 14084, effective August 24, 1994; amended in R96-10 at 21 III. Reg. 6518, effective May 8, 1997; amended in R97-11 at 21 III. Reg. 7869, effective July 1, 1997; amended in R01-14 at 26 III. Reg. 2662, effective February 5, 2002; amended in R08-18 at 36 III. Reg. ______, effective

SUBPART A: GENERAL

Section 620.110 Definitions

The definitions of the Environmental Protection Act [415 ILCS 5] and the Groundwater Protection Act [415 ILCS 55] apply to this Part. The following definitions also apply to this Part.

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Aquifer" means saturated (with groundwater) soils and geologic materials which are sufficiently permeable to readily yield economically useful quantities of water to wells, springs, or streams under ordinary hydraulic gradients. [415 ILCS 55/3(b)]

"BETX" means the sum of the concentrations of benzene, ethylbenzene, toluene, and xylenes.

"Board" means the Illinois Pollution Control Board.

Carcinogen" means a contaminant that is classified as a Category A1 or A2 Carcinogen by the American Conference of Governmental Industrial Hygienists; or a Category 1 or 2A/2B carcinogen by the World Health Organization's International Agency for Research on Cancer; or a "Human carcinogen" or "Anticipated Human Carcinogen" by the United States Department of Health and Human Service National Toxicological Program; or a Category A or B1/B2 Carcinogen by the United States Environmental Protection Agency in Integrated Risk Information System or a Final Rule issued in a Federal Register notice by the USEPA. [415 ILCS 5/58.2]

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

"Community water supply" means a public supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents. [415 ILCS 5/3.145 3.05]

"Contaminant" means any solid, liquid, or gaseous matter, any odor, or any form of energy, from whatever source. [415 ILCS 5/3.165 3.06]

"Corrective action process" means those procedures and practices that may be imposed by a regulatory agency when a determination has been made that contamination of groundwater has taken place, and are necessary to address a potential or existing violation of the standards set forth in Subpart D.

"Cumulative impact area" means the area, including the coal mine area permitted under the Surface Coal Mining Land Conservation and Reclamation Act [225 ILCS 720] and 62 Ill. Adm. Code 1700 through 1850, within which impacts resulting from the proposed operation may interact with the impacts of all anticipated mining on surface water and groundwater systems.

"Department" means the Illinois Department of Natural Resources.

"Detection" means the identification of a contaminant in a sample at a value equal to or greater than the:

"Method Detection Limit" or "MDL" means the minimum concentration of a substance that can be measured as reported with 99 percent confidence that the true value is greater than zero, pursuant to 40 CFR 136, Appendix B (2006) 56 Fed. Reg. 3526-3597, incorporated by reference at Section 620.125; or "Method Quantitation Limit" or "MQL" means the minimum concentration of a substance that can be measured and reported pursuant to "Test Methods for Evaluating Solid Wastes, Physical/ Chemical Methods", incorporated by reference at Section 620.125.

"Groundwater" means underground water which occurs within the saturated zone and geologic materials where the fluid pressure in the pore space is equal to or greater than atmospheric pressure. [415 ILCS 5/3.210 3.64]

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

"Hydrologic balance" means the relationship between the quality and quantity of water inflow to, water outflow from, and water storage in a hydrologic unit such as a drainage basin, aquifer, soil zone, lake, or reservoir. It encompasses the dynamic relationships among precipitation, runoff, evaporation, and changes in ground and surface water storage.

"IGPA" means the Illinois Groundwater Protection Act. [415 ILCS 55]

"LOAEL" or "Lowest observable adverse effect level" means the lowest tested concentration of a chemical or substance that produces a statistically significant increase in frequency or severity of non-overt adverse effects between the exposed population and its appropriate control. LOAEL may be determined for a human population (LOAEL-H) or an animal population (LOAEL-A).

"Licensed Professional Engineer" or "LPE" means a person, corporation, or partnership licensed under the laws of the State of Illinois to practice professional engineering. [415 ILCS 5/57.2]

"Licensed Professional Geologist" or "LPG" means an individual who is licensed under the Professional Geologist Licensing Act to engage in the practice of professional geology in Illinois. (Professional Geologist Licensing Act [225 ILCS 745/15])

"NOAEL" or "No observable adverse effect level" means the highest tested concentration of a chemical or substance that does not produce a statistically significant increase in frequency or severity of non-overt adverse effects between the exposed population and its appropriate control. NOAEL may be determined for a human population (NOAEL-H) or an animal population (NOAEL-A).

"Non-community water supply" means a public water supply that is not a community water supply. [415 ILCS 5/3.145 3.05]

"Off-site" means not on-site.

"On-site" means on the same or geographically contiguous property that may be divided by public or private right-of-way, provided the entrance and exit between properties is at a crossroads intersection and access is by crossing as opposed to going along the right-of-way. Noncontiguous

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

properties owned by the same person but connected by a right-of-way that he controls and that the public does not have access to is also considered on-site property.

"Operator" means the person responsible for the operation of a site, facility or unit. "Owner" means the person who owns a site, facility or unit or part of a site, facility or unit, or who owns the land on which the site, facility or unit is located.

"Potable" means generally fit for human consumption in accordance with accepted water supply principles and practices. [415 ILCS 5/3.340 3.65]

"Potential primary source" means any unit at a facility or site not currently subject to a removal or remedial action which:

Is utilized for the treatment, storage, or disposal of any hazardous or special waste not generated at the site; or

Is utilized for the disposal of municipal waste not generated at the site, other than landscape waste and construction and demolition debris; or

Is utilized for the landfilling, land treating, surface impounding or piling of any hazardous or special waste that is generated on the site or at other sites owned, controlled or operated by the same person; or

Stores or accumulates at any time more than 75,000 pounds above ground, or more than 7,500 pounds below ground, of any hazardous substances. [415 ILCS 5/3.345 3.59]

"Potential route" means abandoned and improperly plugged wells of all kinds, drainage wells, all injection wells, including closed loop heat pump wells, and any excavation for the discovery, development or production of stone, sand or gravel. This term does not include closed loop heat pump wells using USP food grade propylene glycol. [415 ILCS 5/3.350 3.58]

"Potential secondary source" means any unit at a facility or a site not currently subject to a removal or remedial action, other than a potential primary source, which:

Is utilized for the landfilling, land treating, or surface impounding of waste that is generated on the site or at other sites owned,

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

controlled or operated by the same person, other than livestock and landscape waste, and construction and demolition debris; or Stores or accumulates at any time more than 25,000 but not more than 75,000 pounds above ground, or more than 2,500 but not more than 7,500 pounds below ground, of any hazardous substance; or

Stores or accumulates at any time more than 25,000 gallons above ground, or more than 500 gallons below ground, of petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance; or Stores or accumulates pesticides, fertilizers, or road oils for purposes of commercial application or for distribution to retail sales outlets; or

Stores or accumulates at any time more than 50,000 pounds of any de-icing agent; or

is utilized for handling livestock waste or for treating domestic wastewaters other than private sewage disposal systems as defined in the Private Sewage Disposal Licensing Act [225 ILCS 225]. [415 ILCS 5/3.355 3.60]

"Practical Quantitation Limit" or "PQL" means the lowest concentration or level that can be reliably measured within specified limits of precision and accuracy during routine laboratory operating conditions in accordance with "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846, incorporated by reference at Section 620.125.

"Previously mined area" means land disturbed or affected by coal mining operations prior to February 1, 1983.

BOARD NOTE: February 1, 1983, is the effective date of the Illinois permanent program regulations implementing the Surface Coal Mining Land Conservation and Reclamation Act [225 ILCS 720] as codified in 62 Ill. Adm. Code 1700 through 1850.

"Property class" means the class assigned by a tax assessor to real property for purposes of real estate taxes.

BOARD NOTE: The property class (rural property, residential vacant land, residential with dwelling, commercial residence, commercial

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

business, commercial office, or industrial) is identified on the property record card maintained by the tax assessor in accordance with the Illinois Real Property Appraisal Manual (February 1987), published by the Illinois Department of Revenue, Property Tax Administration Bureau.

"Public water supply" means all mains, pipes and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year. A public water supply is either a "community water supply" or a "non-community water supply". [415 ILCS 5/3.365 3.28]

"Regulated entity" means a facility or unit regulated for groundwater protection by any State or federal agency.

"Regulatory agency" means the Illinois Environmental Protection Agency, Department of Public Health, Department of Agriculture, the Office of Mines and Minerals in the Department of Natural Resources, and the Office of State Fire Marshal.

"Regulated recharge area" means a compact geographic area, as determined by the Board pursuant to Section 17.4 of the Act, the geology of which renders a potable resource groundwater particularly susceptible to contamination. [415 ILCS 5/3.390 3.67]

"Resource groundwater" means groundwater that is presently being, or in the future is capable of being, put to beneficial use by reason of being of suitable quality. [415 ILCS 5/3.430 3.66]

"Saturated zone" means a subsurface zone in which all the interstices or voids are filled with water under pressure greater than that of the atmosphere.

"Setback zone" means a geographic area, designated pursuant to this Act, containing a potable water supply well or a potential source or potential route having a continuous boundary, and within which certain prohibitions or regulations are applicable in order to protect

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

groundwaters. [415 ILCS 5/3.450 3.61]

"Site" means any location, place, tract of land and facilities, including but not limited to, buildings and improvements used for the purposes subject to regulation or control by the Act or regulations thereunder. [415 ILCS 5/3.460 3.43]

"Spring" means a natural surface discharge of an aquifer from rock or soil.

"Threshold dose" means the lowest dose of a chemical at which a specified measurable effect is observed and below which it is not observed.

"Treatment" means the technology, treatment techniques, or other procedures for compliance with 35 Ill. Adm. Code, Subtitle F.

"Unit" means any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). [415 ILCS 5/3.515 3.62]

"USEPA" means the United States Environmental Protection Agency.

"Wellhead Protection Area" ("WHPA") means the surface and subsurface recharge area surrounding a community water supply well or well field, delineated outside of any applicable setback zones (pursuant to Section 17.1 of the Act (415 ILCS 5/17.1)), and pursuant to Illinois' Wellhead Protection Program, through which contaminants are reasonably likely to move toward such well or well field.

"Wellhead protection program" means the wellhead protection program for the State of Illinois, approved by USEPA under 42 USC 300h-7.

BOARD NOTE: Derived from 40 CFR 141.71(b) (2003). The wellhead protection program includes the "groundwater protection needs assessment" under Section 17.1 of the Act (415 ILCS 5/17.1) and 35 Ill. Adm. Code 615-617.

(Source: Amended at 36 Ill. Reg.	, effective	٠
(Source, Amenaca at 30 m. Reg.	CHECHVE	

Section 620.125 Incorporations by Reference

a) The Board incorporates the following material by reference:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

ASTM International. 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959 (610) 832-9500. ASTM. American Society for Testing and Materials, 1976 Race Street, Philadelphia, Pa. 19103 (215) 299-5585

"Standard Practice for Classification of Soils for Engineering Purposes (Unified Classification System)" ASTM D2487-06 "Standard Practice for Description and Identification of Soils (Visual Manual Procedure)" D2488-84

CFR (Code of Federal Regulations). Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (202) 783-3238.

Method Detection Limit Definition, Appendix B to Part 136, 40 CFR 136, Appendix B (2006).

Control of Lead and Copper, general requirements, 40 CFR 141.80 (2006).

Maximum contaminant levels for organic contaminants, 40 CFR 141.61 (2006).

Maximum contaminant levels for inorganic contaminants, 40 CFR 141.62 (2006).

Maximum contaminant levels for radionuclides, 40 CFR 141.66 (2006).

GPO. Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, (202) 783-3238)

Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper; Final Rule, 56 Fed. Reg. 26460-26564 (June 7, 1991).

National Primary Drinking Water Regulations, Final Rule, 56 Fed. Reg. 3526-3597 (January 30, 1991).

National Primary Drinking Water Regulations, Final Rule, 57 Fed.

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Reg. 31776-31849 (July 17, 1992).

USEPA Guidelines for Carcinogenic Risk Assessment, 51 Fed. Reg. 33992-34003 (September 24, 1986).

Illinois Environmental Protection Agency, 1020 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276 (217) 785-4787.

"Guidance Document for Groundwater Protection Needs
Assessments," Agency, Illinois State Water Survey, and Illinois
State Geologic Survey Joint Report, January 1995.

"The Illinois Wellhead Protection Program Pursuant to Section 1428 of the Federal Safe Drinking Water Act," Agency, # 22480, October 1992.

NCRP. National Council on Radiation Protection, 7910 Woodmont Ave., Bethesda, MD (301) 657-2652.(301) 657-6252

"Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure", NCRP Report Number 22, June 5, 1959.

NTIS. National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 (703) 605-6000(703) 487-4600.

"Methods for Chemical Analysis of Water and Wastes," EPA Publication No. EPA-600/4-79-020, (March 1983), Doc. No. PB 84-128677

"Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039 (Dec. 1988), Doc. No. PB 89-220461

"Methods for Chemical Analysis of Water and Wastes," March 1983, Doc. No. PB84-128677. EPA 600/4-79-020 (available online at http://nepis.epa.gov/).

"Methods for the Determination of Inorganic Substances in Environmental Samples," August 1993, PB94-120821 (referred to

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

as "USEPA Environmental Inorganic Methods"). EPA 600/R-93-100 (available online at http://nepis.epa.gov/).

"Methods for the Determination of Metals in Environmental Samples," June 1991, Doc. No. PB91-231498. EPA 600/4-91-010 (available online at http://nepis.epa.gov/).

"Methods for the Determination of Metals in Environmental Samples—Supplement I," May 1994, Doc. No. PB95-125472. EPA 600/R-94-111 (available online at http://nepis.epa.gov/).

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"Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Doc. No. PB80-224744. EPA 600/4-80-032, (August 1980) (available online at http://nepis.epa.gov/).

"Procedures for Radiochemical Analysis of Nuclear Reactor

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Aqueous Solutions," H.L. Krieger and S. Gold, Doc. No. PB222-154/7BA. EPA-R4-73-014, May 1973.

"Radiochemical Analytical Procedures for Analysis of Environmental Samples," March 1979, Doc. No. EMSL LV 053917.

"Radiochemistry Procedures Manual," Doc. No. PB-84-215581. EPA-520/5-84-006, December 1987.

"Practical Guide for Ground-Water Sampling", EPA Publication No. EPA/600/2-85/104 (September 1985), Doc. No. PB 86-137304

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," USEPA Publication No. SW-846, as amended by Updates I, II, IIA, IIB, III, IIIA, and IIIB (Third Edition, Final Update IIIA, April 1998), as amended by Updates I, IIA, III, and IIIA (Doc. No. 955-001-00000-1)-, (available online at http://www.epa.gov/epaoswer/hazwaste/test/main.htm).

"Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW 846 (Third Edition, 1986, as amended by Revision I, Final Update I, July 1992, Doc. No. PB 89-148076

USGS. United States Geological Survey, 1961 Stout St., Denver, CO 80294 (303) 844-4169

"Techniques of Water Resources Investigations of the United States Geological Survey, Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents", Book I, Chapter D2 (1976)(1981).

b)	This Section incorporates no lat	er editions or amendmen	nts.
(Sour	ce: Amended at 36 Ill. Reg	, effective)
	SUBPART B: GROUND	WATER CLASSIFICA	TION

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Section 620.201 Groundwater Designations

All groundwaters of the State are designated as:

One of the following four classes of groundwater in accordance with Sections a) 620.210 through 620.240: 1) Class I: Potable Resource Groundwater; 2) Class II: General Resource Groundwater; 3) Class III: Special Resource Groundwater; 4) Class IV: Other Groundwater; A groundwater management zone in accordance with Section 620.250; or b) A groundwater management zone as defined in 35 Ill. Adm. Code 740.120 and c) established under 35 Ill. Adm. Code 740.530. (Source: Amended at 36 Ill. Reg., effective

Section 620.210 Class I: Potable Resource Groundwater

Except as provided in Sections 620.230, 620.240, or 620.250, Potable Resource Groundwater is:

- a) Groundwater located 10 feet or more below the land surface and within:
 - 1) The minimum setback zone of a well which serves as a potable water supply and to the bottom of such well;
 - 2) Unconsolidated sand, gravel or sand and gravel which is 5 feet or more in thickness and that contains 12 percent or less of fines (i.e. fines which pass through a No. 200 sieve tested according to ASTM Standard Practice D2487-06 D2488-84, incorporated by reference at Section 620.125);
 - 3) Sandstone which is 10 feet or more in thickness, or fractured carbonate which is 15 feet or more in thickness; or
 - 4) Any geologic material which is capable of a:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- A) Sustained groundwater yield, from up to a 12 inch borehole, of 150 gallons per day or more from a thickness of 15 feet or less; or
- B) Hydraulic conductivity of 1 x 10(-4) cm/sec or greater using one of the following test methods or its equivalent:
 - i) Permeameter;
 - ii) Slug test; or
 - iii) Pump test.
- b) Any groundwater which is determined by the Board pursuant to petition procedures set forth in Section 620.260, to be capable of potable use. (Board Note: Any portion of the thickness associated with the geologic materials as described in subsections 620.210(a)(2), (a)(3) or (a)(4) should be designated as Class I: Potable Resource Groundwater if located 10 feet or more below the land surface.)

(Source: Amended at 36 Ill. Reg. , effective)

SUBPART C: NONDEGRADATION PROVISIONS FOR APPROPRIATE GROUNDWATERS

Section 620.302 Applicability of Preventive Notification and Preventive Response Activities

- a) Preventive notification and preventive response as specified in Sections 620.305 through 620.310 applies to:
 - 1) Class I groundwater under Section 620.210(a)(1), (a)(2), or (a)(3) which is monitored by the persons listed in subsection (b); or
 - 2) Class III groundwater which is monitored by the persons listed in subsection (b).
- b) For purposes of subsection (a), the persons that conduct groundwater monitoring are:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- An owner or operator of a regulated entity for which groundwater quality monitoring must be performed pursuant to State or Federal law or regulation (e.g., Section 106 and 107 of the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. 9601, et seq.); Sections 3004 and 3008 of the Resource Conservation and Recovery Act (42 U.S.C. 6901, et seq.); Sections 4(q), 4(v), 12(g), 21(d), 21(f), 22.2(f), 22.2(m) and 22.18 of the Act; 35 Ill. Adm. Code 724, 725, 730, 731, 750, 811 and 814);
- 2) An owner or operator of a public water supply well who conducts groundwater quality monitoring;
- 3) A state agency which is authorized to conduct, or is the recipient of, groundwater quality monitoring data (e.g., Illinois Environmental Protection Agency, Department of Public Health, Department of Conservation, Department of Mines and Minerals, Department of Agriculture, Office of State Fire Marshal or Department of Energy and Natural Resources); or
- 4) An owner or operator of a facility that conducts groundwater quality monitoring pursuant to State or federal judicial or administrative order.
- c) If a contaminant exceeds a standard set forth in Section 620.410 or Section 620.430, the appropriate remedy is corrective action and Sections 620.305 and 620.310 do not apply.

(Source: Amended at 26 III Dea offective			
1 Source. Amended at 50 m. Reg	(Source: Amended at 36 Ill. Reg.	, effective	,

Section 620.310 Preventive Response Activities

- a) The following preventive assessment must be undertaken:
 - 1) If a preventive notification under Section 620.305(c) is provided by a community water supply:
 - A) The Agency shall notify the owner or operator of any identified potential primary source, potential secondary source, potential route, or community water supply well that is located within 2,500 feet of the wellhead.

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- B) The owner or operator notified under subsection (a)(1)(A) shall, within 30 days after the date of issuance of such notice, sample each water well or monitoring well for the contaminant identified in the notice if the contaminant or material containing such contaminant is or has been stored, disposed of, or otherwise handled at the site. If a contaminant identified under Section 620.305(a) is detected, then the well must be resampled within 30 days of the date on which the first sample analyses are received. If a contaminant identified under Section 620.305(a) is detected by the resampling, preventive notification must be given as set forth in Section 620.305.
- C) If the Agency receives analytical results under subsection (a)(1)(B) that show a contaminant identified under Section 620.305(a) has been detected, the Agency shall:
 - i) Conduct a well site survey pursuant to 415 ILCS 5/17.1(d), if such a survey has not been previously conducted within the last 5 years; and
 - ii) Identify those sites or activities that represent a hazard to the continued availability of groundwaters for public use unless a groundwater protection needs assessment has been prepared pursuant to 415 ILCS 5/17.1(d).
- If a preventive notification is provided under Section 620.305(c) by a noncommunity water supply or for multiple private water supply wells, the Department of Public Health shall conduct a sanitary survey within 1,000 feet of the wellhead of a non-community water supply or within 500 feet of the wellheads for multiple private water supply wells.
- 3) If a preventive notification under Section 620.305(b) is provided by the owner or operator of a regulated entity and the applicable standard in Subpart D has not been exceeded:
 - A) The appropriate regulatory agency shall determine if any of the following occurs for Class I: Potable Resource Groundwater:
 - i) The levels set forth below are exceeded or are changed for

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

pH:

Constituent Crite	ria (mg/L)
Para-Dichlorobenzene 0.005	5
Ortho-Dichlorobenzene 0.01	
Ethylbenzene 0.03	
Methyl Tertiary-Butyl Ether	
(MTBE) 0.02	
Phenols 0.001	
Styrene 0.01	
Toluene 0.04	
Xylenes 0.02	

- A statistically significant increase occurs above background ii) (as determined pursuant to other regulatory procedures (e.g., 35 Ill. Adm. Code 616, 724, 725 or 811)) for arsenic, beryllium, cadmium, chromium, cyanide, lead, mercury, or thallium, or vanadium (except due to natural causes); or for acenaphthene, acetone, aldicarb, anthracene, atrazine, benzoic acid, carbon disulfide, carbofuran, dalapon, 2butanone (MEK), dicamba, dichlorodifluoromethane, 1,1dichloroethane, diethyl phthalate, di-n-butyl phthalate, dinoseb, endrin, endothall, fluoranthene, fluorine, hexachlorocyclopentadiene, isopropylbenzene (cumene), lindane (gamma-hexachloro cyclohexane), 2,4-D,1,1dichloroethylene, cis-1, 2-dichloroethylene, trans-1,2dichloroethylene, MCPP (mecoprop), 2-methylnaphthalene, methoxychlor, 2-methylphenol, monochlorobenzene, naphthalene, picloram, pyrene, simazine, 2,4,5-TP (sSilvex), 1,2,4-trichloro-benzene, 1,1,2-trichloroethane, and 1,1,1-trichloroethane, and trichlorofluoromethane.
- iii) For a chemical constituent of gasoline, diesel fuel, or heating fuel, the constituent exceeds the following:

Constituent	Criterion (mg/L)
BETX	0.095

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

iv) For pH, a statistically significant change occurs from background.

BOARD NOTE: Constituents that are carcinogens have not been listed in subsection (a)(3)(A) because the standard is set at the PQL and any exceedence thereof is a violation subject to corrective action.

- B) The appropriate agency shall determine if, for Class III: Special Resource Groundwater, the levels as determined by the Board are exceeded.
- C) The appropriate regulatory agency shall consider whether the owner or operator reasonably demonstrates that:
 - i) The contamination is a result of contaminants remaining in groundwater from a prior release for which appropriate action was taken in accordance with laws and regulations in existence at the time of the release;
 - ii) The source of contamination is not due to the on-site release of contaminants; or
 - iii) The detection resulted from error in sampling, analysis, or evaluation.
- D) The appropriate regulatory agency shall consider actions necessary to minimize the degree and extent of contamination.
- b) The appropriate regulatory agency shall determine whether a preventive response must be undertaken based on relevant factors including, but not limited to, the considerations in subsection (a)(3).
- c) After completion of preventive response pursuant to authority of an appropriate regulatory agency, the concentration of a contaminant listed in subsection (a)(3)(A) in groundwater may exceed 50 percent of the applicable numerical standard in Subpart D only if the following conditions are met:
 - 1) The exceedence has been minimized to the extent practicable;
 - 2) Beneficial use, as appropriate for the class of groundwater, has been

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

assured; and

- 3) Any threat to public health or the environment has been minimized.
- d) Nothing in this Section shall in any way limit the authority of the State or of the United States to require or perform any corrective action process.

(Source: Amended at 36	Ill. Reg.	, effective	`

SUBPART D: GROUNDWATER QUALITY STANDARDS

Section 620.410 Groundwater Quality Standards for Class I: Potable Resource Groundwater

a) Inorganic Chemical Constituents

Except due to natural causes or as provided in Section 620.450, concentrations of the following chemical constituents must not be exceeded in Class I groundwater:

Constituent	Units	Standard
Antimony	mg/L	0.006
Arsenic*	mg/L	0.010 0.05
Barium	mg/L	$\overline{2.0}$
Beryllium	mg/L	0.004
Boron	mg/L	2.0
Cadmium	mg/L	0.005
Chloride	mg/L	200.0
Chromium	mg/L	0.1
Cobalt	mg/L	1.0
Copper	mg/L	0.65
Cyanide	mg/L	0.2
Fluoride	mg/L	4.0
Iron	mg/L	5.0
Lead	mg/L	0.0075
Manganese	mg/L	0.15
Mercury	mg/L	0.002
Nickel	mg/L	0.1
Nitrate as N	mg/L	10.0
<u>Perchlorate</u>	mg/L	0.0049
Radium-226	pCi/l	20.0

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Radium-228	pCi/l	20.0
Selenium	mg/L	0.05
Silver	mg/L	0.05
Sulfate	mg/L	400.0
Thallium	mg/L	0.002
Total Dissolved		
Solids (TDS)	mg/L	1,200
<u>Vanadium</u>	mg/L	<u>0.049</u>
Zinc	mg/L	5.0

^{*}Denotes a carcinogen.

b) Organic Chemical Constituents

Except due to natural causes or as provided in Section 620.450 or subsection I, concentrations of the following organic chemical constituents shall not be exceeded in Class I groundwater:

Constituent	Standard (mg/L)
Acenaphthene	0.42
<u>Acetone</u>	<u>6.3</u>
Alachlor*	0.002
Aldicarb	0.003
<u>Anthracene</u>	<u>2.1</u>
Atrazine	0.003
Benzene*	0.005
Benzo(a)anthracene*	<u>0.00013</u>
Benzo(b)fluoranthene*	<u>0.00018</u>
Benzo(k)fluoranthene*	<u>0.00017</u>
Benzo(a)pyrene*	0.0002
Benzoic acid	<u>28.0</u>
2-Butanone (MEK)	4.2
Carbofuran	0.04
Carbon Disulfide	<u>0.7</u>
Carbon Tetrachloride*	0.005
Chlordane*	0.002
<u>Chloroform*</u>	0.07
Chrysene*	0.012
Dalapon	0.2
Dibenzo(a,h)anthracene*	0.0003

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Dicamba	0.21
Dichlorodifluoromethane	1.4
1,1-Dichloroethane	1.4
Dichloromethane*	$\frac{1.1}{0.005}$
Di(2-ethylhexyl)phthalate*	0.006
Diethyl Phthalate	5.6
Di-n-butyl Phthalate	<u>0.7</u>
Dinoseb	$\frac{0.7}{0.007}$
Endothall	0.007
Endoman	0.1
	0.002
Ethylene Dibromide* Fluoranthene	0.00003
Fluorene	0.28 0.0004
Heptachlor*	
Heptachlor Epoxide*	0.0002
Hexachlorocyclopentadiene	0.05
Indeno(1,2,3-cd)pyrene*	0.00043
Isopropylbenzene (Cumene)	<u>0.7</u>
Lindane (Gamma-	0.0002
Hexachlorocyclohexane)	0.0002
2,4-D	0.07
ortho-Dichlorobenzene	0.6
para-Dichlorobenzene	0.075
1,2-Dibromo-3-Chloropropane*	0.0002
1,2-Dichloroethane*	0.005
1,1-Dichloroethylene	0.007
cis-1,2-Dichloroethylene	0.07
trans-1,2-Dichloroethylene	0.1
1,2-Dichloropropane*	0.005
Ethylbenzene	0.7
MCPP (Mecoprop)	<u>0.007</u>
Methoxychlor	0.04
2-Methylnaphthalene	<u>0.028</u>
2-Methylphenol	<u>0.35</u>
Methyl Tertiary-Butyl Ether	
(MTBE)	0.07
Monochlorobenzene	0.1
Naphthalene	<u>0.14</u>
P-Dioxane*	0.0077
Pentachlorophenol*	0.001
•	

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Phenols	0.1
Picloram	0.5
<u>Pyrene</u>	<u>0.21</u>
Polychlorinated Biphenyls (PCBs)	
(as decachloro-biphenyl)*	0.0005
alpha-BHC (alpha-Benzene	
hexachloride)*	0.00011
Simazine	0.004
Styrene	0.1
2,4,5-TP (Silvex)	0.05
Tetrachloroethylene*	0.005
Toluene	1.0
Toxaphene*	0.003
1,1,1-Trichloroethane	0.2
1,1,2-Trichloroethane	0.005
1,2,4-Trichlorobenzene	0.07
Trichloroethylene*	0.005
Trichlorofluoromethane	<u>2.1</u>
Vinyl Chloride*	0.002
Xylenes	10.0

^{*}Denotes a carcinogen.

<u>c)</u> Explosive Constituents

Concentrations of the following explosive constituents must not exceed the Class I groundwater standard:

Constituent	Standard (mg/L)
1,3-Dinitrobenzene 2,4-Dinitrotoluene* 2,6-Dinitrotoluene*	$\begin{array}{c} \underline{0.0007} \\ \underline{0.0001} \\ \underline{0.00031} \end{array}$
HMX (High Melting Explosive, Octogen) Nitrobenzene	1.4 0.014
RDX (Royal Demolition Explosive, Cyclonite)	0.084
1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene (TNT)	0.84 0.014

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

*Denotes a carcinogen.

<u>d</u>)e) Complex Organic Chemical Mixtures

Concentrations of the following chemical constituents of gasoline, diesel fuel, or heating fuel must not be exceeded in Class I groundwater:

Constituent	Standard (mg/L)
Benzene* BETX	0.005 11.705

^{*}Denotes a carcinogen.

<u>e)</u>d) pH

Except due to natural causes, a pH range of 6.5 - 9.0 units must not be exceeded in Class I groundwater.

<u>f)</u>e) Beta Particle and Photon Radioactivity

- 1) Except due to natural causes, the average annual concentration of beta particle and photon radioactivity from man-made radionuclides shall not exceed a dose equivalent to the total body organ greater than 4 mrem/year in Class I groundwater. If two or more radionuclides are present, the sum of their dose equivalent to the total body, or to any internal organ shall not exceed 4 mrem/year in Class I groundwater except due to natural causes.
- 2) Except for the radionuclides listed in subsection (e)(3), the concentration of man-made radionuclides causing 4 mrem total body or organ dose equivalent must be calculated on the basis of a 2 liter per day drinking water intake using the 168-hour data in accordance with the procedure set forth in NCRP Report Number 22, incorporated by reference at in Section 620.125(a).
- Except due to natural causes, the average annual concentration assumed to produce a total body or organ dose of 4 mrem/year of the following chemical constituents shall not be exceeded in Class I groundwater:

	Critical	Standard
Constituent	Organ	(pCi/L)

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Tritium	Total body	20,000.0
Strontium-90	Bone marrow	8.0
(Source: Amended at 36 Ill. Reg	, effective	

Section 620.420 Groundwater Quality Standards for Class II: General Resource Groundwater

- a) Inorganic Chemical Constituents
 - 1) Except due to natural causes or as provided in Section 620.450 or subsection (a)(3) or (d) of this Section, concentrations of the following chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Antimony	0.024
Arsenic*	0.2
Barium	2.0
Beryllium	0.5
Cadmium	0.05
Chromium	1.0
Cobalt	1.0
Cyanide	0.6
Fluoride	4.0
Lead	0.1
Mercury	0.01
Nitrate as N	100.0
<u>Perchlorate</u>	<u>0.0049</u>
Thallium	0.02
<u>Vanadium</u>	<u>0.1</u>

^{*}Denotes a carcinogen.

2) Except as provided in Section 620.450 or subsection (a)(3) or (d) of this Section, concentrations of the following chemical constituents must not be exceeded in Class II groundwater:

Constituent

Standard

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

	(mg/L)
Boron	2.0
Chloride	200.0
Copper	0.65
Iron	5.0
Manganese	10.0
Nickel	2.0
Selenium	0.05
Total Dissolved Solids	
(TDS)	1,200.0
Sulfate	400.0
Zinc	10.0

- The standard for any inorganic chemical constituent listed in subsection (a)(2) of this Section, for barium, or for pH does not apply to groundwater within fill material or within the upper 10 feet of parent material under such fill material on a site not within the rural property class for which:
 - A) Prior to November 25, 1991, surficial characteristics have been altered by the placement of such fill material so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of such parameters is available for review by the Agency.
 - B) On November 25, 1991, surficial characteristics are in the process of being altered by the placement of such fill material, that proceeds in a reasonably continuous manner to completion, so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of such parameters is available for review by the Agency.
- 4) For purposes of subsection (a)(3) of this Section, the term "fill material" means clean earthen materials, slag, ash, clean demolition debris, or other similar materials.
- b) Organic Chemical Constituents
 - 1) Except due to natural causes or as provided in Section 620.450 or subsection (b)(2) or (d) of this Section, concentrations of the following

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

organic chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Acenaphthene	<u>2.1</u>
Acetone	6.3
Alachlor*	0.010
Aldicarb	0.015
<u>Anthracene</u>	<u>10.5</u>
Atrazine	0.015
Benzene*	0.025
Benzo(a)anthracene*	0.00065
Benzo(b)fluoranthene*	<u>0.0009</u>
Benzo(k)fluoranthene*	<u>0.006</u>
Benzo(a)pyrene*	0.002
Benzoic acid	<u>28.0</u>
2-Butanone (MEK)	<u>4.2</u>
Carbon Disulfide	<u>3.5</u>
Carbofuran	0.2
Carbon Tetrachloride*	0.025
Chlordane*	0.01
<u>Chloroform*</u>	<u>0.35</u>
<u>Chrysene*</u>	<u>0.06</u>
Dalapon	2.0
<u>Dibenzo(a,h)anthracene</u>	<u>0.0015</u>
<u>Dicamba</u>	<u>0.21</u>
<u>Dichlorodifluoromethane</u>	<u>7.0</u>
1,1-Dichloroethane	<u>7.0</u>
Dichloromethane*	0.05
Di(2-ethylhexyl)phthalate*	0.06
<u>Diethyl Phthalate</u>	<u>5.6</u>
<u>Di-n-butyl Phthalate</u>	<u>3.5</u>
Dinoseb	0.07
Endothall	0.1
Endrin	0.01
Ethylene Dibromide*	0.0005
Fluoranthene	1.4
Fluorene	<u>1.4</u>

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Heptachlor*	0.002
Heptachlor Epoxide*	0.001
Hexachlorocyclopentadiene	0.5
Indeno(1,2,3-cd)pyrene*	0.0022
Isopropylbenzene (Cumene)	3.5
Lindane (Gamma-Hexachloro	
cyclohexane)	0.001
2,4-D	0.35
Ortho-Dichlorobenzene	1.5
Para-Dichlorobenzene	0.375
1,2-Dibromo-3-Chloropropane*	0.002
1,2-Dichloroethane*	0.025
1,1-Dichloroethylene	0.035
cis-1,2-Dichloroethylene	0.2
Trans-1,2-Dichloroethylene	0.5
1,2-Dichloropropane*	0.025
Ethylbenzene	1.0
MCPP (Mecoprop)	0.007
Methoxychlor	0.2
2-Methylnaphthalene	0.14
2-Methylphenol	0.35
Methyl Tertiary-Butyl Ether (MTBE)	0.07
Monochlorobenzene	0.5
<u>Naphthalene</u>	0.22
P-Dioxane*	0.0077
Pentachlorophenol*	0.005
Phenols	0.1
Picloram	5.0
<u>Pyrene</u>	<u>1.05</u>
Polychlorinated Biphenyls (PCBs)	
(as decachloro-biphenyl)*	0.0025
alpha-BHC (alpha-Benzene	
hexachloride)*	0.00055
Simazine	0.04
Styrene	0.5
2,4,5-TP	0.25
Tetrachloroethylene*	0.025
Toluene	2.5
Toxaphene*	0.015
1,1,1-Trichloroethane	1.0

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

1,2,4-Trichlorobenzene	0.7
1,1,2-Trichloroethane	0.05
Trichloroethylene*	0.025
Trichlorofluoromethane	<u>10.5</u>
Vinyl Chloride*	0.01
Xylenes	10.0

^{*}Denotes a carcinogen.

The standards for pesticide chemical constituents listed in subsection (b)(1) of this Section do not apply to groundwater within 10 feet of the land surface, provided that the concentrations of such constituents result from the application of pesticides in a manner consistent with the requirements of the Federal Insecticide, Fungicide and Rodenticide Act (7 USC 136 et seq.) and the Illinois Pesticide Act [415 ILCS 60].

<u>c)</u> <u>Explosive Constituents</u>

Concentrations of the following explosive constituents must not exceed the Class II groundwater standard:

Constituent	Standard (mg/L)
1,3-Dinitrobenzene	0.0007
2,4-Dinitrotoluene*	<u>0.0001</u>
2,6-Dinitrotoluene*	<u>0.00031</u>
HMX (High Melting	
Explosive, Octogen)	<u>1.4</u>
Nitrobenzene	<u>0.014</u>
RDX (Royal Demolition	
Explosive, Cyclonite)	<u>0.084</u>
1,3,5-Trinitrobenzene	0.84
2,4,6-Trinitrotoluene (TNT)	0.014

^{*}Denotes a carcinogen.

<u>d</u>)e) Complex Organic Chemical Mixtures

Concentrations of the following organic chemical constituents of gasoline, diesel fuel, or heating fuel must not be exceeded in Class II groundwater:

Constituent

Standard

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

(mg/L)
Benzene* 0.025
BETX 13.525

TT... /L/..

<u>e)a)</u>	pn
	Except due to natural causes, a pH range of 6.5 - 9.0 units must not be exc
	in Class II groundwater that is within 5 feet of the land surface.

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(Source: Amended at 36 Ill. Reg. , effective _____)

Section 620.440 Groundwater Quality Standards for Class IV: Other Groundwater

- a) Except as provided in subsections (b) or (c), Class IV: Other Groundwater standards are equal to the existing concentrations of constituents in groundwater.
- b) For groundwater within a zone of attenuation as provided in 35 Ill. Adm. Code 811 and 814, the standards specified in Section 620.420 must not be exceeded, except for concentrations of contaminants within leachate released from a permitted unit.
- For groundwater within a previously mined area, the standards set forth in Section 620.420 must not be exceeded, except for concentrations of TDS, chloride, iron, manganese, sulfates, or pH, 1,3-dinitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, HMX (high melting explosive, octogen), nitrobenzene, RDX (royal demolition explosive, cyclonite), 1,3,5-trinitrobenzene, or 2,4,6-trinitrotoluene (TNT). For concentrations of TDS, chloride, iron, manganese, sulfates, or pH, 1,3-dinitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, HMX, nitrobenzene, RDX, 1,3,5-trinitrobenzene, or 2,4,6-trinitrotoluene (TNT), the standards are the existing concentrations.

(Source: Amended at 36 Ill. Reg. , effective)

Section 620.450 Alternative Groundwater Quality Standards

- a) Groundwater Quality Restoration Standards
 - 1) Any chemical constituent in groundwater within a groundwater

^{*}Denotes a carcinogen.

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

management zone is subject to this Section.

- 2) Except as provided in subsections (a)(3) or (a)(4) below, the standards as specified in Sections 620.410, 620.420, 620.430, and 620.440 apply to any chemical constituent in groundwater within a groundwater management zone.
- Prior to completion of a corrective action described in Section 620.250(a), the standards as specified in Sections 620.410, 620.420, 620.430, and 620.440 are not applicable to such released chemical constituent, provided that the initiated action proceeds in a timely and appropriate manner.
- 4) After completion of a corrective action as described in Section 620.250(a), the standard for such released chemical constituent is:
 - A) The standard as set forth in Section 620.410, 620.420, 620.430, or 620.440, if the concentration as determined by groundwater monitoring of such constituent is less than or equal to the standard for the appropriate class set forth in those sections; or
 - B) The concentration as determined by groundwater monitoring, if such concentration exceeds the standard for the appropriate class set forth in Section 620.410, 620.420, 620.430, or 620.440 for such constituent, and:
 - i) To the extent practicable, the exceedence has been minimized and beneficial use, as appropriate for the class of groundwater, has been returned; and
 - ii) Any threat to public health or the environment has been minimized.
- The Agency shall develop and maintain a listing of concentrations derived pursuant to subsection (a)(4)(B) above. This list shall be made available to the public and be updated periodically, but no less frequently than semi-annually. This listing shall be published in the Environmental Register.
- b) Coal Reclamation Groundwater Quality Standards

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- 1) Any inorganic chemical constituent or pH in groundwater, within an underground coal mine, or within the cumulative impact area of groundwater for which the hydrologic balance has been disturbed from a permitted coal mine area pursuant to the Surface Coal Mining Land Conservation and Reclamation Act [225 ILCS 720] and 62 Ill. Adm. Code 1700 through 1850, is subject to this Section.
- 2) Prior to completion of reclamation at a coal mine, the standards as specified in Sections 620.410(a) and (d), 620.420(a) and (d), 620.430 and 620.440 are not applicable to inorganic constituents and pH.
- After completion of reclamation at a coal mine, the standards as specified in Sections 620.410(a) and (d), 620.420(a), 620.430, and 620.440 are applicable to inorganic constituents and pH, except:
 - A) The concentration of total dissolved solids (TDS) must not exceed:
 - i) The post-reclamation concentration or 3000 mg/L, whichever is less, for groundwater within the permitted area; or
 - ii) The post-reclamation concentration of TDS must not exceed the post-reclamation concentration or 5000 mg/L, whichever is less, for groundwater in underground coal mines and in permitted areas reclaimed after surface coal mining if the Illinois Department of Mines and Minerals and the Agency have determined that no significant resource groundwater existed prior to mining (62 Ill. Adm. Code 1780.21(f) and (g)); and
 - B) For chloride, iron, manganese and sulfate, the post-reclamation concentration within the permitted area must not be exceeded.
 - C) For pH, the post-reclamation concentration within the permitted area must not be exceeded within Class I: Potable Resource Groundwater as specified in Section 620.210(a)(4).
 - <u>D)</u> For 1,3-dinitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, HMX (high melting explosive, octogen), nitrobenzene, RDX (royal demolition explosive, cyclonite), 1,3,5-trinitrobenzene, and 2,4,6-

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

trinitrotoluene (TNT), the post-reclamation concentration within the permitted area must not be exceeded.

- 4) A refuse disposal area (not contained within the area from which overburden has been removed) is subject to the inorganic chemical constituent and pH requirements of:
 - A) 35 Ill. Adm. Code 302. Subparts B and C, except due to natural causes, for such area that was placed into operation after February 1, 1983, and before the effective date of this Part, provided that the groundwater is a present or a potential source of water for public or food processing;
 - B) Section 620.440(c) for such area that was placed into operation prior to February 1, 1983, and has remained in continuous operation since that date; or
 - C) Subpart D of this Part for such area that is placed into operation on or after the effective date of this Part.
- For a refuse disposal area (not contained within the area from which overburden has been removed) that was placed into operation prior to February 1, 1983, and is modified after that date to include additional area, this Section applies to the area that meets the requirements of subsection (b)(4)(C) and the following applies to the additional area:
 - A) 35 Ill. Adm. Code 302. Subparts B and C, except due to natural causes, for such additional refuse disposal area that was placed into operation after February 1, 1983, and before the effective date of this Part, provided that the groundwater is a present or a potential source of water for public or food processing; and
 - B) Subpart D for such additional area that was placed into operation on or after the effective date of this Part.
- A coal preparation plant (not located in an area from which overburden has been removed) which contains slurry material, sludge or other precipitated process material, is subject to the inorganic chemical constituent and pH requirements of:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- A) 35 Ill. Adm. Code 302. Subparts B and C, except due to natural causes, for such plant that was placed into operation after February 1, 1983, and before the effective date of this Part, provided that the groundwater is a present or a potential source of water for public or food processing;
- B) Section 620.440(c) for such plant that was placed into operation prior to February 1, 1983, and has remained in continuous operation since that date; or
- C) Subpart D for such plant that is placed into operation on or after the effective date of this Part.
- For a coal preparation plant (not located in an area from which overburden has been removed) which contains slurry material, sludge or other precipitated process material, that was placed into operation prior to February 1, 1983, and is modified after that date to include additional area, this Section applies to the area that meets the requirements of subsection (b)(6)(C) and the following applies to the additional area:
 - A) 35 III. Adm. Code 302. Subparts B and C, except due to natural causes, for such additional area that was placed into operation after February 1, 1983, and before the effective date of this Part, provided that the groundwater is a present or a potential source of water for public or food processing; and
 - B) Subpart D for such additional area that was placed into operation on or after the effective date of this Part.
- c) Groundwater Quality Standards for Certain Groundwater Subject to a No Further Remediation Letter under Part 740. While a No Further Remediation Letter is in effect for a region formerly encompassed by a groundwater management zone established under 35 Ill. Adm. 740.530, the groundwater quality standards for "contaminants of concern", as defined in 35 Ill. Adm. Code 740.120, within such area shall be the groundwater objectives achieved as documented in the approved Remedial Action Completion Report.

(Source: Amended at 36 Ill. Reg, effective	
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POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Section 620.505 Compliance Determination

- a) Compliance with standards at a site is to be determined as follows:
 - 1) For a structure (e.g., buildings), at the closest practical distance beyond the outermost edge for the structure.
 - 2) For groundwater that underlies a potential primary or secondary source, the outermost edge as specified in Section 620.240(e)(1).
 - 3) For groundwater that underlies a coal mine refuse disposal area, a coal combustion waste disposal area, or an impoundment that contains sludge, slurry, or precipitated process material at a coal preparation plant, the outermost edge as specified in Section 620.240(f)(1) or location of monitoring wells in existence as of the effective date of this Part on a permitted site.
 - 4) For a groundwater management zone, as specified in a corrective action process.
 - 5) For groundwater, any point, where monitoring is conducted using a water well, or a monitoring well that meets one of the following conditions:
 - A) For a potable water supply well if geologic log(s) exist for this well or geologic logs in the immediate 1,000-foot area of this well are representative of the hydrogeologic materials encountered by this well as determined by a licensed professional geologist or a licensed professional engineer or a WHPA has been delineated outside of an applicable setback zone of a community water well or well field in accordance with a "Guidance Document for Conducting Groundwater Protection Needs Assessments," incorporated by reference at Section 620.125, and "Illinois Approved WHPP," incorporated by reference at Section 620.125.
 - B) For a potable water supply well other than a community water supply well, a construction report has been filed with the Department of Public Health for such potable well, or such well has been located and constructed (or reconstructed) to meet the

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Illinois Water Well Construction Code [415 ILCS 30] and 77 Ill. Adm. Code 920.

- C) For a potable water supply well that was constructed prior to August 20, 1965, the enactment of the Illinois Water Well Construction Code [415 ILCS 30], and meets all of the following criteria:
 - i) Construction must be done in a manner that will enable the collection of groundwater samples that represent in situ groundwater conditions;
 - ii) Casings and screens must be made from durable material resistant to expected chemical or physical degradation that do not interfere with the quality of groundwater samples being collected; and
 - iii) The annular space opposite the screened section of the well (i.e., the space between the bore hole and well screen) must be filled with gravel or sand if necessary to collect groundwater samples. The annular space above and below the well screen must be sealed to prevent migration of water from adjacent formations and the surface to the sampled depth.
- D) For a community water supply well, such well has been permitted by the Agency, or has been constructed in accordance with 35 Ill. Adm. Code 602.115.
- E) For a water well other than a potable water supply well (e.g., a livestock watering well or an irrigation well), a construction report has been filed with the Department of Public Health or the the Office of Mines and Minerals in the Department of Natural Resources for such well, or such well has been located and constructed (or reconstructed) to meet the Illinois Water Well Construction Code [415 ILCS 30] and 35 Ill. Adm. Code 920.
- F) For a monitoring well, such well meets the following requirements:

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- i) Construction must be done in a manner that will enable the collection of groundwater samples;
- ii) Casings and screens must be made from durable material resistant to expected chemical or physical degradation that do not interfere with the quality of groundwater samples being collected; and
- iii) The annular space opposite the screened section of the well (i.e., the space between the bore hole and well screen) must be filled with gravel or sand if necessary to collect groundwater samples. The annular space above and below the well screen must be sealed to prevent migration of water from adjacent formations and the surface to the sampled depth.
- Monitoring shall not be conducted for compliance determinations pursuant to subsection a) of this Section:
 - A) For a water well:
 - i) Less than 15 feet in total depth from the land surface,
 - ii) bored or dug,
 - iii) constructed of permeable materials (e.g., cement, tile, stone or brick), and
 - iv) 36 inches or more in diameter.
 - B) For a water well with water quality problems due to damaged well construction materials or poorly-designed well construction;
 - C) For a water well in a basement or pit; or
 - D) For a water well water from a holding tank.
- b) For a spring, compliance with this Subpart shall be determined at the point of emergence.

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

(Source: Amended at 36 Ill. Reg.	, effective
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Section 620.510 Monitoring and Analytical Requirements

- a) Representative Samples
 A representative sample shall be taken from locations as specified in Section 620.505.
- b) Sampling and Analytical Procedures
 - 1) Samples must be collected in accordance with the procedures set forth in the documents pertaining to groundwater monitoring and analysis "Methods for Chemical Analysis of Water and Wastes," "Methods for the Determination of Inorganic Substances in Environmental Samples," "Methods for the Determination of Metals in Environmental Samples," "Methods for the Determination of Organic Compounds in Drinking Water," "Methods for the Determination or Organic Compounds in Drinking Water, Supplement I," "Methods for the Determination of Organic Compounds in Drinking Water, Supplement II," "Methods for the Determination of Organic Compounds in Drinking Water, Supplement III," "Methods for the Determination of Organic and Inorganic Compounds in Drinking Water," "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," "Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," "Radiochemical Analytical Procedures for Analysis of Environmental Samples," "Radiochemistry Procedures Manual," "Practical Guide for Ground Water Sampling," "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (SW-846), 40 CFR 136, Appendix B, 40 CFR 141.80, 40 CFR 141.61, and 40 CFR 141.62, "Techniques of Water Resources Investigations of the United States Geological Survey. Guidelines for Collection and Field Analysis of Ground Water Samples for Selected Unstable Constituents," "Methods for Chemical Analysis of Water and Wastes," "Methods for the Determination of Organic Compounds in Drinking Water," "Practical Guide for Ground-Water Sampling," "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (SW-846), 56 Fed. Reg. 3526-3597, 56 Fed. Reg. 26460-26564, 57 Fed. Reg. 31776-31849, "Techniques of Water Resources Investigations of the United States Geological Survey, Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents," incorporated by reference at Section

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

620.125 or other procedures adopted by the appropriate regulatory agency.

- 2) Groundwater elevation in a groundwater monitoring well must be determined and recorded when necessary to determine the gradient.
- 3) The analytical methodology used for the analysis of constituents in Subparts C and D must be consistent with both of the following:
 - A) The methodology must have a PQL at or below the preventive response levels of Subpart C or groundwater standard set forth in Subpart D, whichever is applicable; and
 - B) "Methods for Chemical Analysis of Water and Wastes," Methods for the Determination of Inorganic Substances in Environmental Samples," Methods for the Determination of Metals in Environmental Samples," "Methods for the Determination of Organic Compounds in Drinking Water," "Methods for the Determination of Organic Compounds in Drinking Water, Supplement I," "Methods for the Determination of Organic Compounds in Drinking Water, Supplement II," "Methods for the Determination of Organic Compounds in Drinking Water, Supplement III," "Methods for the Determination of Organic and Inorganic Compounds in Drinking Water," "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," "Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," "Radiochemical Analytical Procedures for Analysis of Environmental Samples," "Radiochemistry Procedures Manual," "Practical Guide for Ground Water Sampling," "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (SW-846), 40 CFR 136, Appendix B, 40 CFR 141.80, 40 CFR 141.61, and 40 CFR 141.62, "Techniques of Water Resources Investigations of the United States Geological Survey, Guidelines for Collection and Field Analysis of Ground Water Samples for Selected Unstable Constituents," The methodology must be consistent with methodologies contained in "Methods for Chemical Analysis of Water and Wastes", "Methods for the Determination of Organic Compounds in Drinking Water", "Practical Guide for Ground-Water Sampling", "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (SW-846), "Techniques of Water Resources Investigations of the United States Geological Survey,

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents", incorporated by reference at Section 620.125.

- c) Reporting Requirements
 - At a minimum, groundwater monitoring analytical results must include information, procedures and techniques for:
 - 1) Sample collection (including but not limited to name of sample collector, time and date of the sample, method of collection, and identification of the monitoring location);
 - 2) Sample preservation and shipment (including but not limited to field quality control);
 - Analytical procedures (including but not limited to the method detection limits and the PQLs); and
 - 4) Chain of custody control.

(Source: Amended at 36 Ill. Reg. , effective)

SUBPART F: HEALTH ADVISORIES

Section 620.605 Issuance of a Health Advisory

- a) The Agency shall issue a Health Advisory for a chemical substance if all of the following conditions are met:
 - 1) A community water supply well is sampled and a substance is detected and confirmed by resampling;
 - 2) There is no standard under Section 620.410 for such chemical substance; and
 - The chemical substance is toxic or harmful to human health according to the procedures of Appendix A, B, or C.
- b) The Health Advisory must contain a general description of the characteristics of the chemical substance, the potential adverse health effects, and a guidance level

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

to be determined as follows:

- 1) If disease or functional impairment is caused due to a physiological mechanism for where there is a threshold dose below which no damage occurs, the guidance level for any such substance shall be the Maximum Contaminant Level Goal ("MCLG"), adopted by USEPA for such substance, 40 CFR 136, Appendix B, 40 CFR 141.80, 40 CFR 141.61, and 40 CFR 141.62 56 Fed. Reg. 26460-26564, 56 Fed. Reg. 3526-3597, and 57 Fed. Reg. 31776-31849, incorporated by reference at Section 620.125. If there is no MCLG for the substance, the guidance level is the Human Threshold Toxicant Advisory Concentration for such substance as determined in accordance with Appendix A, unless the concentration for such substance is less than the lowest appropriate PQL specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846 (SW-846), incorporated by reference at Section 620.125 for the substance. If the concentration for such substance is less than the lowest appropriate PQL for the substance specified in SW-846. incorporated by reference at Section 620.125, the guidance level is the lowest appropriate PQL.
- If the chemical substance is a carcinogen, the guidance level for any such chemical substance is the <u>one-in-one-million cancer risk concentration</u>, unless the concentration for such substance is less than the lowest appropriate PQL specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846 (SW-846), lowest appropriate PQL specified in SW-846, incorporated by reference at Section 620.125 for such substance. If the concentration for such substance is less than the lowest appropriate PQL for the substance specified in SW-846, the guidance level is the lowest appropriate PQL. The one-in-one-million cancer risk concentration, the Human Nonthreshold Toxicant Advisory Concentration (HNTAC), shall be determined according to the following equation:

HNTAC= TR x BW x AT x 365 days/year (mg/l) SFo x IR x EF x ED

Where:

TR= Target Risk= 1.0E-06 BW= Body Weight= 70 kg

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

AT= Averaging Time= 70 years

SFo= Oral Slope Factor= Chemical-specific
IR= Daily Water Ingestion Rate= 2 liters/day
EF= Exposure Frequency= 350 days/year
ED= Exposure Duration= 30 years

(Source: Amended at 36 Ill. Reg. _____, effective _____)

Section 620.Appendix A Procedures for Determining Human Threshold Toxicant Advisory Concentration for Class I: Potable Resource Groundwater

a) Calculating the Human Threshold Toxicant Advisory Concentration For those substances for which USEPA has not adopted a Maximum Contaminant Level Goal ("MCLG"), the Human Threshold Toxicant Advisory Concentration is calculated as follows:

$HTTAC = RSC \times ADE/W$

Where:

HTTAC = Human Threshold Toxicant Advisory Concentration in milligrams per liter (mg/L)

RSC = Relative contribution of the amount of the exposure to a chemical via drinking water when compared to the total exposure to that chemical from all sources. Valid chemical-specific data shall be used if available. If valid chemical-specific data are not available, a value of 20% (=0.20) must be used;

ADE = Acceptable Daily Exposure of substance in milligrams per day (mg/d) as determined pursuant to subsection (b); and

W = Per capita daily water consumption equal to 2 liters per day (L/d).

- b) Procedures for Determining Acceptable Daily Exposures for Class I: Potable Resource Groundwater
 - 1) The Acceptable Daily Exposure (ADE) represents the maximum amount of a threshold toxicant in milligrams per day (mg/d) which if ingested daily for a lifetime results in no adverse effects to humans. Subsections (b)(2) through (b)(6) list, in prescribed order, methods for determining the

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

ADE in Class I: Potable Resource Groundwater.

- 2) For those substances for which the USEPA has derived a Verified Oral Reference Dose for humans, USEPA's Reference Dose given in milligrams per kilogram per day (mg/kg/d), as determined in accordance with methods provided in National Primary and Secondary Drinking Water Regulations.; 40 CFR 136, Appendix B, 40 CFR 141.80, 40 CFR 141.61, and 40 CFR 141.62 Final Rule, 56 Fed. Reg. 3526-3597, (January 30, 1991), incorporated by reference at Section 620.125, must be used. The ADE equals the product of multiplying the Reference Dose by 70 kilograms (kg), which is the assumed average weight of an adult human.
- 3) For those substances for which a no observed adverse effect level for humans (NOAEL-H) exposed to the substance has been derived, the ADE equals the product of multiplying one-tenth of the NOAEL-H given in milligrams of toxicant per kilogram of body weight per day (mg/kg/d) by the average weight of an adult human of 70 kilograms (kg). If two or more studies are available, the lowest NOAEL-H must be used in the calculation of the ADE.
- 4) For those substances for which only a lowest observed adverse effect level for humans (LOAEL-H) exposed to the substance has been derived, one-tenth the LOAEL-H must be substituted for the NOAEL-H in subsection (b)(3).
- For those substances for which a no observed adverse effect level has been derived from studies of mammalian test species (NOAEL-A) exposed to the substance, the ADE equals the product of multiplying 1/100 of the NOAEL-A given in milligrams toxicant per kilogram of test species weight per day (mg/kg/d) by the average weight of an adult human of 70 kilograms (kg). Preference will be given to animal studies having High Validity, as defined in subsection (c), in the order listed in that subsection. Studies having a Medium Validity must be considered if no studies having High Validity are available. If studies of Low Validity must be used, the ADE must be calculated using 1/1000 of the NOAEL-A having Low Validity instead of 1/100 of the NOAEL-A of High or Medium Validity, except as described in subsection (b)(6). If two or more studies among different animal species are equally valid, the lowest NOAEL-A among animal species must be used in the calculation of the ADE. Additional

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

considerations in selecting the NOAEL-A include:

- A) If the NOAEL-A is given in milligrams of toxicant per liter of water consumed (mg/L), prior to calculating the ADE the NOAEL-A must be multiplied by the average daily volume of water consumed by the mammalian test species in liters per day (1/d) and divided by the average weight of the mammalian test species in kilograms (kg).
- B) If the NOAEL-A is given in milligrams of toxicant per kilogram of food consumed (mg/kg), prior to calculating the ADE, the NOAEL-A must be multiplied by the average amount in kilograms of food consumed daily by the mammalian test species (kg/d) and divided by the average weight of the mammalian test species in kilograms (kg).
- C) If the mammalian test species was not exposed to the toxicant each day of the test period, the NOAEL-A must be multiplied by the ratio of days of exposure to the total days of the test period.
- D) If more than one equally valid NOAEL-A is available for the same mammalian test species, the best available data must be used.
- 6) For those substances for which a NOAEL-A is not available but the lowest observed adverse effect level (LOAEL-A) has been derived from studies of mammalian test species exposed to the substance, one-tenth of the LOAEL-A may be substituted for the NOAEL-A in subsection (b)(5). The LOAEL-A must be selected in the same manner as that specified in subsection (b)(5). One-tenth the LOAEL-A from a study determined to have Medium Validity may be substituted for a NOAEL-A in subsection (b)(3) if the NOAEL-A is from a study determined to have Low Validity, or if the toxicity endpoint measured in the study having the LOAEL-A of Medium Validity is determined to be more biologically relevant than the toxicity endpoint measured in the study having the NOAEL-A of Low Validity.
- c) Procedures for Establishing Validity of Data from Animal Studies
 - 1) High Validity Studies

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

- A) High validity studies use a route of exposure by ingestion or gavage, and are based upon:
 - i) Data from animal carcinogenicity studies with a minimum of 2 dose levels and a control group, 2 species, both sexes, with 50 animals per dose per sex, and at least 50 percent survival at 15 months in mice and 18 months in rats and at least 25 percent survival at 18 months in mice and 24 months in rats;
 - ii) Data from animal chronic studies with a minimum of 3 dose levels and a control group, 2 species, both sexes, with 40 animals per dose per sex, and at least 50 percent survival at 15 months in mice and 18 months in rats and at least 25 percent survival at 18 months in mice and 24 months in rats, and a well-defined NOAEL; or
 - iii) Data from animal subchronic studies with a minimum of 3 dose levels and control, 2 species, both sexes, 4 animals per dose per sex for non-rodent species or 10 animals per dose per sex for rodent species, a duration of at least 5% of the test species' lifespan, and a well-defined NOAEL.
- B) Supporting studies which reinforce the conclusions of a study of Medium Validity may be considered to raise such a study to High Validity.
- 2) Medium Validity Studies

Medium validity studies are based upon:

- A) Data from animal carcinogenicity, chronic, or subchronic studies in which minor deviations from the study design elements required for a High Validity Study are found, but which otherwise satisfy the standards for a High Validity Study;
- B) Data from animal carcinogenicity and chronic studies in which at least 25 percent survival is reported at 15 months in mice and 18 months in rats (a lesser survival is permitted at the conclusion of a longer duration study, but the number of surviving animals should

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

not fall below 20 percent per dose per sex at 18 months for mice and 24 months for rats), but which otherwise satisfy the standards for a High Validity Study;

- C) Data from animal subchronic or chronic studies in which a Lowest Observable Adverse Effect Level (LOAEL) is determined, but which otherwise satisfy the standards for a High Validity Study; or
- D) Data from animal subchronic or chronic studies which have an inappropriate route of exposure (for example, intraperitoneal injection or inhalation) but which otherwise satisfy the standards for a High Validity Study, with correction factors for conversion to the oral route.
- 3) Low Validity Studies

Low validity studies are studies not meeting the standards set forth in subsection (c)(1) or (c)(2).

(Source: Amended at 36 Ill. Reg	, effective)
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Section 620.Appendix B Procedures for Determining Hazard Indices for Class I: Potable Resource Groundwater for Mixtures of Similar-Acting Substances

- a) This appendix describes procedures for evaluating mixtures of similar-acting substances which may be present in Class I: Potable Resource Groundwaters. Except as provided otherwise in subsection (c), subsections (d) through (h) describe the procedure for determining the Hazard Index for mixtures of similar-acting substances.
- b) For the purposes of this appendix, a "mixture" means two or more substances which are present in Class I: Potable Resource Groundwater which may or may not be related either chemically or commercially, but which are not complex mixtures of related isomers and congeners which are produced as commercial products (for example, PCBs or technical grade chlordane).
- c) The following substances listed in Section 620.410 are mixtures of similar acting substances:
 - 1) Mixtures of ortho-Dichlorobenzene and para-Dichlorobenzene. The

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

Hazard Index ("HI") for such mixtures is determined as follows:

2) Mixtures of 1,1-Dichloroethylene and 1,1,1-trichloroethane. The Hazard Index ("HI") for such mixtures is determined as follows:

$$HI = [1,1-Dichloroethylene] \ 0.007 + [1,1,1-trichloroethane] \ 0.2$$

d) When two or more substances occur together in a mixture, the additivity of the toxicities of some or all of the substances will be considered when determining health-based standards for Class I: Potable Resource Groundwater. This is done by the use of a dose addition model with the development of a Hazard Index for the mixture of substances with similar-acting toxicities. This method does not address synergism or antagonism. Guidelines for determining when the dose addition of similar-acting substances is appropriate are presented in Appendix C.

The Hazard Index is calculated as follows:

$$HI = [A]/ALA + [B]/ALB + \dots$$
 $[I]/ALI)$

Where:

HI = Hazard Index, unitless.

[A], [B], [I] = Concentration of each similar-acting substance in groundwater in milligrams per liter (mg/L).

ALA, ALB, ALI = The acceptable level of each similar-acting substance in the mixture in milligrams per liter (mg/L).

- e) For substances which are considered to have a threshold mechanism of toxicity, the acceptable level is:
 - 1) The standards listed in Section 620.410; or
 - 2) For those substances for which standards have not been established in Section 620.410, the Human Threshold Toxicant Advisory Concentration

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

(HTTAC) as determined in Appendix A.

- f) For substances which are carcinogens, the acceptable level is:
 - 1) The standards listed in Section 620.410; or
 - 2) For those substances for which standards have not been established under Section 620.410, the one-in-one-million cancer risk concentration, unless the concentration for such substance is less than the lowest appropriate PQL specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, incorporated by reference at Section 620.125, for the substance, in which case the lowest appropriate PQL shall be the acceptable level. the lowest appropriate PQL of USEPA approved analytical methods specified in SW-846, incorporated by reference at Section 620.125, for each substance.
- g) Since the assumption of dose addition is most properly applied to substances that induce the same effect by similar modes of action, a separate HI must be generated for each toxicity endpoint of concern.
- h) In addition to meeting the individual substance objectives, a Hazard Index must be less than or equal to 1 for a mixture of similar-acting substances.

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ι	Source, Amer	nuca at 50 i	II. KE2.	. effective

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

- a) Substances must 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).
 - 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.
- b) Substances that have fundamentally different mechanisms of toxicity (threshold toxicants vs. carcinogens) must not be considered similar-acting. However, carcinogens which also cause a threshold toxic effect should be considered in a

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

mixture with other similar-acting substances having the same threshold toxic effect. In such a case, an Acceptable Level for the carcinogen must be derived for its threshold effect, using the procedures described in Appendix A.

c) Substances which are components of a complex mixture of related compounds which are produced as commercial products (for example, PCBs or technical grade chlordane) are not mixtures, as defined in Appendix B. Such complex mixtures are equivalent to a single substance. In such a case, the Human Threshold Toxicant Advisory Concentration may be derived for threshold effects of the complex mixture, using the procedures described in Appendix A, if valid toxicological or epidemiological data are available for the complex mixture. If the complex mixture is a carcinogen, the Health Advisory Concentration is the one-in-one-million cancer risk concentration, unless the concentration for such substance is less than the lowest appropriate PQL specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, incorporated by reference at Section 620.125, for the substance, in which case the lowest appropriate PQL shall be the Health Advisory Concentration. lowest appropriate PQL of USEPA-approved analytical methods specified in SW-846, incorporated by reference at Section 620.125.

(Source: A	Amended at 36 Ill. Reg.	, effective

Section 620.Appendix D Confirmation of an Adequate Corrective Action Pursuant to 35 Ill. Adm. Code 620.250(a)(2).

Pursuant to 35 Ill. Adm. Code 620.250(a) if an owner or operator provides a written confirmation to the Agency that an adequate corrective action, equivalent to a corrective action process approved by the Agency, is being undertaken in a timely and appropriate manner, then a groundwater management zone may be established as a three-dimensional region containing groundwater being managed to mitigate impairment caused by the release of contaminants from a site. This document provides the form in which the written confirmation is to be submitted to the Agency.

- Note 1. Parts I and II are to be submitted to IEPA at the time that the facility claims the alternative groundwater standards. Part III is to be submitted at the completion of the site investigation. At the completion of the corrective process, a final report is to be filed which includes the confirmation statement included in Part IV.
- Note 2. The issuance of a permit by IEPA's Division of Air Pollution Control or Water Pollution Control for a treatment system does not imply that the Agency has

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

approved the corrective action process.

Note 3. If the facility is conducting a cleanup of a unit which is subject to the requirements of the Resource Conservation and Recovery Act (RCRA) or the 35 Ill. Adm. Code 731 regulations for Underground Storage Tanks, this confirmation process is not applicable and cannot be used.

Note 4. If the answers to any of these questions require explanation or clarification, provide such in an attachment to this document.

Part I. Facility Information

Facility Name	
Facility Address	
County	
Standard Industrial Code (SIC)	

- 1. Provide a general description of the type of industry, products manufactured, raw materials used, location and size of the facility.
- 2. What specific units (operating or closed) are present at the facility which are or were used to manage waste, hazardous waste, hazardous substances or petroleum?

	<u>YES</u>	<u>NO</u>
Landfill		
Surface Impoundment		
Land Treatment		
Spray Irrigation		
Waste Pile		
Incinerator		
Storage Tank (above ground)		
Storage Stroage Tank (underground)		
Container Storage Area		
Injection Well		
Water Treatment Units		
Septic Tanks		
French Drains		
Transfer Station		
Other Units (Please describe)		

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

3.	of th man iden	ride an extract from a USGS topographic or county map showing the location he site and a more detailed scaled map of the facility with each waste agement unit identified in Question 2 or known/suspected source clearly tified. Map scale must be specified and the location of the facility must be ided with respect to Township, Range and Section.
4.	man "haz Yes	the facility ever conducted operations which involved the generation, ufacture, processing, transportation, treatment, storage or handling of ardous substances" as defined by the Illinois Environmental Protection Act? No If the answer to this question is "yes" generally describe these ations.
5.	Resc	the facility generated, stored or treated hazardous waste as defined by the burce Conservation and Recovery Act? Yes No If the answer to this tion is "yes" generally describe these operations.
6.	hand	the facility conducted operations which involved the processing, storage or lling of petroleum? Yes No If the answer to this questions is "yes" rally describe these operations.
7.	Has	the facility ever held any of the following permits?
	a.	Permits for any waste storage, waste treatment or waste disposal operation. Yes No If the answer to this question is "yes", identify the IEPA permit numbers.
	b.	Interim Status under the Resources Conservation and Recovery Act (filing of a RCRA Part A application). Yes No If the answer to this question is "yes", attach a copy of the last approved Part A application.
	c.	RCRA Part B Permits. Yes No If the answer to this question is "yes", identify the permit log number.
8.		the facility ever conducted the closure of a RCRA hazardous waste agement unit? Yes No

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

9.		any of the following State or federal government actions taken place for a eat the facility?
	a.	Written notification regarding known, suspected or alleged contamination on or emanating from the property (e.g., a Notice pursuant to Section 4(q) of the Environment Protection Act)? Yes No If the answer to this question is "yes", identify the caption and date of issuance.
	b.	Consent Decree or Order under RCRA, CERCLA, EPAct Section 22.2 (State Superfund), or EPAct Section 21(f) (State RCRA). Yes No
	c.	If either of Items a or b were answered by checking "yes", is the notice, order or decree still in effect? Yes No
10. What groundwater classification will the facility be subject to at the conthe remediation? Class I Class III Class IV If more than one Class applies, please explain.		
11.	Descril	be the circumstances which the release to groundwater was identified.
•		of those persons directly responsible for gathering the information, I certify abmitted is, to the best of my knowledge and belief, true and accurate.
Facility Name)	Signature of Owner/Operator
Location of F	acility	Name of Owner/Operator
EPA Identific	ation Nu	mber Date
PART II: Rele	ease Info	ormation
1.		y the chemical constituents eonstitutents release to the groundwater. additional documents as necessary.

Chemical Description

Chemical Abstract No.

POLLUTION CONTROL BOARD

	NOTICE PROPOSED AMENDME	ENTS
2.	Describe how the site will be investigated to dete the release.	ermine the source or sources of
3.	Describe how groundwater will be monitored to the release.	determine the rate and extent of
4.	Has the release been contained on-site at the facil	lity?
5.	Describe the groundwater monitoring network an protocols in place at the facility.	nd groundwater and soil sampling
6.	Provide the schedule for investigation and monitor	oring.
7.	Describe the laboratory quality assurance program	n utilized for the investigation.
8.	Provide a summary of the results of available soil monitoring associated with the release at the facilitation should provide the following information: dates of taken (soil or water); locations and depths of same methods; analytical laboratories used; chemical of were performed; analytical detection limits; and constituents in ppm (levels below detection should	lity. The summary of results of sampling; types of samples uples; sampling and analytical constituents for which analyses concentrations of chemical
that the inform	vinquiry of those persons directly responsible for garmation submitted is, to the best of knowledge and be the actions identified herein will be undertaken in a	pelief, true and accurate and
Facility Name	Signature of Own	er/Operator

Name of Owner/Operator

Location of Facility

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

EPA Identifi	cation Number Date					
	nedy Selection Information					
1.						
2.	Describe other remedies which were considered and why they were rejected.					
3.	Will waste, contaminated soil or contaminated groundwater be removed from the site in the course of this remediation? Yes No If the answer to this question is "yes", where will the contaminated material be taken?					
4.	Describe how the selected remedy will accomplish the maximum practical restoration of beneficial use of groundwater.					
5.	Describe how the selected remedy will minimize any threat to public health or the environment.					
6.	Describe how the selected remedy will result in compliance with the applicable groundwater standards.					
7.	Provide a schedule for design, construction and operation of the remedy, including dates for the start and completion.					
8.	Describe how the remedy will be operated and maintained.					
9.	Have any of the following permits been issued for the remediation?					
	a. Construction or Operating permit from the Division of Water Pollution Control. Yes No					
	b. Land treatment permit from the Division of Water Pollution Control. Ye No If the answer to this question is "yes", identify the permit number.					
	c. Construction or Operating permit from the Division of Air Pollution Control. Yes No If the answer to this question is "yes", identify the permit number.					

POLLUTION CONTROL BOARD

NOTICE PROPOSED AMENDMENTS

10. How will groundwater at the facility be monitored following completion of the remedy to ensure that the groundwater standards have been attained?

Based on my inquiry of those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true and accurate and confirm that the actions identified herein will be undertaken in accordance with the schedule set forth herein.

Facility Name	Signature o	f Owner/Operator
Location of Facility	Name of O	wner/Operator
EPA Identification Numb	er Date	
PART IV: Completion Ce	ertification	
	company documentation which ating successful completion of t	includes soil and groundwater he corrective process described in Parts
Facility Address		
County	(SIC)	
Based on my inquiry of the that an adequate corrective	ose persons directly responsible action, equivalent to a correcti	e for gathering the information, I certify ve action process approved by the ration concentrations are being met:
Chemical Name	Chemical Abstract No.	Concentration(mg/l)

POLLUTION CONTROL BOARD NOTICE PROPOSED AMENDMENTS Facility Name Signature of Owner/Operator

Name of Owner/Operator

Date

(Source: Amended at 36 Ill. Reg._____, effective _____)

Location of Facility

EPA Identification Number