

ILLINOIS POLLUTION CONTROL BOARD  
April 26, 1979

IN THE MATTER OF: )  
 )  
AMENDMENTS TO THE ) R76-1  
WATER POLLUTION REGULATIONS )

ORDER OF THE BOARD (by Mr. Dumelle):

The Board hereby adopts the following amendments to Chapter 3: Water Pollution.

1) Rule 203(c) shall read as follows:

"Phosphorus (STORET number - 00665): After December 31, 1983 phosphorus as P shall not exceed 0.05 mg/l in any reservoir or lake with a surface area of 20 acres or more, or in any stream at the point where it enters any such reservoir or lake. For the purposes of this Rule 203(c) the term 'reservoir or lake' shall not include low level pools constructed in free flowing streams or any body of water which is an integral part of an operation which includes the application of sludge on land. Point source discharges which comply with Rule 407 of this Chapter shall be in compliance with this Rule 203(c) for purposes of the application of Rule 402 of this Chapter."

2) Rule 203(f) shall read as follows:

"The following levels of chemical constituents shall not be exceeded:

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CONSTITUENT	STORET NUMBER	CONCEN- TRATION (mg/l)
Ammonia Nitrogen (as N)	00610	1.5
Arsenic (total)	01002	1.0
Barium (total)	01007	5.0
Boron (total)	01022	1.0
Cadmium	01027	0.05
Chloride	00940	500.
Chromium (total hexavalent)	01032	0.05
Chromium (total trivalent)	01033	1.0
Copper (total)	01042	0.02
Cyanide	00720	0.025
Fluoride	00951	1.4
Iron (total)	01045	1.0
Lead (total)	01051	0.1
Manganese (total)	01055	1.0
Mercury (total)	71900	0.0005
Nickel (total)	01067	1.0
Phenols	32730	0.1
Selenium (total)	01147	1.0
Silver (total)	01077	0.005
Sulfate	00945	500.
Total Dissolved Solids	70300	1000.
Zinc	01092	1.0"

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3) All references in Rule 203(i)(4) to the Lower Des Plaines River from the I-55 bridge to its confluence with the Kankakee River shall be deleted.

4) Rule 203(i)(9) shall be deleted.

5) Rule 204(b) shall read as follows:

"The following levels of chemical constituents shall not be exceeded:

CONSTITUENT	STORET NUMBER	CONCEN- TRATION (mg/1)
Arsenic (total)	01002	0.05
Barium (total)	01007	1.0
Cadmium (total)	01027	0.010
Chloride	00940	250.
Chromium	01034	0.05
Iron (total)	01045	1.0
Lead (total)	01051	0.05
Manganese (total)	01055	0.15
Nitrate-Nitrogen	00620	10.
Oil (hexane-solubles or equivalent)	00550, 00556, or 00560	0.1
Organics		
Pesticides		
Chlorinated Hydrocarbon Insecticides		
Aldrin	39330	0.001
Chlordane	39350	0.003
DDT	39370	0.05
Dieldrin	39380	0.001
Endrin	39390	0.0002
Heptachlor	39410	0.0001
Heptachlor Epoxide	39420	0.0001
Lindane	39782	0.004
Methoxychlor	39480	0.1
Toxaphene	39400	0.005
Organophosphate Insecticides		
Parathion	39540	0.1
Chlorophenoxy Herbicides		
2,4-Dichlorophenoxy- acetic acid (2,4-D)	39730	0.1
2-(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP or Silvex)	39760	0.01
Phenols	32730	0.001
Selenium (total)	01147	0.01
Sulphates	00945	250.
Total Dissolved Solids	70300	500."

6) The STORET number for Total Solids (Dissolved) in Rule 206(c) shall be 70300.

7) Rule 302 shall read as follows:

"Secondary Contact and Indigenous Aquatic Life Waters

Secondary Contact and Indigenous Aquatic Life Waters are those waters not suited for general use activities but which will be appropriate for all secondary contact uses and which will be capable of supporting an indigenous aquatic life limited only by the physical configuration of the body of water, characteristics and origin of the water and the presence of contaminants in amounts that do not exceed the Rule 205 water quality standards. The following are designated as Secondary Contact and Indigenous Aquatic Life Waters:

- (a) The Chicago Sanitary and Ship Canal;
- (b) The Calumet - Sag Channel;
- (c) The Little Calumet River from its junction with the Grand Calumet River to the Calumet - Sag Channel;
- (d) The Grand Calumet River;
- (e) The Calumet River;
- (f) Lake Calumet;
- (g) The South Branch of the Chicago River;
- (h) The North Branch of the Chicago River from its confluence with the North Shore Channel to its confluence with the South Branch;
- (i) The DesPlaines River from its confluence with the Chicago Sanitary and Ship Canal to the Interstate 55 bridge; and
- (j) The North Shore Channel, except that dissolved oxygen in said Channel shall be not less than 5 mg/l during 16 hours of any 24 hour period, nor less than 4 mg/l at any time.

Additions or deletions to the above list are governed by Part II of Chapter 1: Procedural Rules."

- 8) Rule 404 shall read as follows:

"Deoxygenating Wastes

Except as provided in Rule 602 of this Chapter, all effluents containing deoxygenating wastes shall meet the following standards:

- (a) On and after July 1, 1972, or such earlier date as may have been specified in Rules and Regulations SWB-7 through SWB-15, no effluent shall exceed 30 mg/l of five day biochemical oxygen demand (BOD<sub>5</sub>) (STORET number 00310) or 30 mg/l of suspended solids (STORET number 00530), except as follows:
- (i) Deleted.
  - (ii) Deleted.
  - (iii) Treatment works employing three stage lagoon treatment systems that are properly designed, maintained and operated, and whose effluent has a dilution ratio no less than five to one or who qualify for exceptions under Rule 404(c)(iii) or Rule 404(f)(i), shall not exceed 37 mg/l of suspended solids.
- (b) On and after July 1, 1972, or such earlier date as may have been specified in Rules and Regulations SWB-7 through SWB-15, no effluent from any source whose untreated waste load is 10,000 population equivalents or more, or from any source discharging into the Chicago River System or into the Calumet River System, shall exceed 20 mg/l of BOD<sub>5</sub> or 25 mg/l of suspended solids.
- (c) On or after December 31, 1973, no effluent whose dilution ratio is less than five to one shall exceed 10 mg/l of BOD<sub>5</sub> or 12 mg/l of suspended solids, except as follows:
- (i) Deleted.
  - (ii) Deleted.
  - (iii) Sources employing third-stage treatment lagoons shall be exempt from this paragraph (c) provided all of the following conditions are met:
    - (A) The untreated waste load is less than 2500 population equivalents; and
    - (B) The source is sufficiently isolated that combining with other sources to aggregate 2500 population equivalents or more is not practicable; and
    - (C) The lagoons are properly constructed, maintained, and operated; and

- (D) The deoxygenating constituents of the effluent do not, alone or in combination with other sources, cause a violation of the applicable dissolved oxygen water quality standard.
- (d) On or after December 31, 1974, no effluent discharged to the Lake Michigan basin shall exceed 4 mg/l of BOD<sub>5</sub> or 5 mg/l of suspended solids.
- (e) Deleted.
- (f) Except as provided in paragraph (d) of this Rule 404, on or after December 31, 1973, no effluent whose dilution ratio is less than one to one shall exceed 4 mg/l of BOD<sub>5</sub> or 5 mg/l of suspended solids except as follows:
  - (i) Sources employing third-stage treatment lagoons shall be exempt from this paragraph (f) provided all of the conditions of subparagraph (c)(iii) of this Rule 404 are met.
  - (ii) Other sources not within paragraph (d) of this Rule 404 shall be exempt from this paragraph provided all the following conditions are met:
    - (A) The deoxygenating constituents of the effluent shall not, alone or in combination with other sources, cause a violation of the applicable dissolved oxygen water quality standard; and
    - (B) The effluent shall not exceed 10 mg/l of BOD<sub>5</sub> or 12 mg/l of suspended solids; and
    - (C) The owner or operator of such source shall file with the Agency the Project Completion Schedule required by Rule 1002 of this Chapter. In addition to the requirements of Rule 1002, such schedule shall include a program for achieving compliance with the above conditions and with applicable water quality standards, including, but not limited to, dissolved oxygen, bottom deposits, ammonia nitrogen, and phosphorus, with particular reference to nitrogenous oxygen demand and to the control of stormwater overflows; and
    - (D) The Agency finds that the program will within the compliance dates otherwise applicable assure compliance with the conditions of this subparagraph.

- (g) Deleted.
- (h) Compliance with the numerical standards in this Rule 404 shall be determined on the basis of the type and frequency of sampling prescribed by the NPDES permit for the discharge at the time of monitoring."

9) Rule 407 shall read as follows:

"Phosphorus (STORET number 00665)


- (a) No effluent discharged within the Lake Michigan Basin shall contain more than 1.0 mg/l of phosphorus as P after December 31, 1971.
- (b) No effluent from any source which discharges within the Fox River basin above and including Pistakee Lake and whose untreated waste load is 1500 or more population equivalents shall contain more than 1.0 mg/l of phosphorus as P.
- (c) No effluent from any source which discharges to a lake or reservoir with a surface area of 20 acres or more or to any tributary to such a lake or reservoir and whose untreated waste load is 5000 or more population equivalents shall contain more than 1.0 mg/l of phosphorus as P.
- (d) No effluent from any source which discharges to a lake or reservoir with a surface area of 20 acres or more which does not comply with Rule 203(c) of this Chapter or to any tributary to such a lake or reservoir and whose untreated waste load is 1500 or more population equivalents and which is not governed by Rules 404(a)(iii), 404(c)(iii) or Rule 404(f)(i) of this Chapter shall contain more than 1.0 mg/l of phosphorus as P.
- (e) For the purposes of this Rule 407 the term 'lake or reservoir' shall not include low level pools constructed in free flowing streams or any body of water which is an integral part of an operation which includes the application of sludge on land.
- (f) Compliance with the limitations of this Rule 407(c) shall be achieved by the following dates:
  - (i) new sources shall comply on the effective date of this regulation, and
  - (ii) existing sources shall comply by December 31, 1980, or such other date as required by NPDES permit, or as ordered by the Board under Title VIII or Title IX of the Act.

(g) Compliance with the limitations of this Rule 407(d) shall be achieved by December 31, 1985, or such other date as required by NPDES permit, or as ordered by the Board under Title VIII or Title IX of the Act."

- 10) The STORET number for Selenium in Rule 408(a) shall be 01147.
- 11) Rule 408(c) shall be deleted.

IT IS SO ORDERED.

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Order was adopted on the 26<sup>th</sup> day of April, 1979 by a vote of 4-0.

  
Christan L. Moffett, Clerk  
Illinois Pollution Control Board