

Minnesota Attorney General: Administrative Rules Proceedings

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195

William P. Donohue
Special Assistant
Attorney General

May 17, 1976

WPC 41

Attorney General

William P. Donohue
Special Assistant Attorney General
Pollution Control Agency

February 19, 197

Michael B. Miller
Special Assistant Attorney General

PCA Rule WPC 41

The above-captioned rules are returned herewith for the following changes:

In paragraph (d)** of the rule, the reference to WPC 14 (c)(6) should be clarified, as should the reference to EPA Standards.

MBM/sr

Enclosures

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

Chapter Forty-one: WPC 41

WPC 41: The following standard of effluent quality and purity is hereby adopted and established for all of the intrastate waters of the Vermillion River in Town 113, 114 and 115 North, Range 15, 16, 17, 18, 19, 20 and 21 West, Goodhue, Dakota and Scott Counties.

(a) Scope. These effluent standard requirements shall be in addition to the effluent standards imposed in WPC-14 or any other standards by other regulations applying to these waters, and shall supersede any less stringent effluent standards conflicting with provisions of this regulation.

(b) Severability. All provisions of this regulation shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not void any other lettered paragraph or subparagraph, subdivision or any part thereof.

(c) Definitions. The terms "sewage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other terms for which definitions are given in the Water Pollution Control Statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, Sections 115.01 and 115.41 with the exception that disposal systems or treatment works operated under permit of the Agency shall not be construed to be "waters of the state" as the term is used herein. Other terms and abbreviations used herein which are not specifically defined in applicable federal or state law shall be construed

in conformance with the context, and in relation to the applicable section of the statutes pertaining to the matter at hand, and current professional usage.

(d) Standards of Effluent Quality and Purity. It is herein established that the Agency shall require the treatment of all discharges of sewage, industrial waste or other waste effluent to meet the following effluent standards: (see Section (c)(6) WPD-14 for additional effluent requirements):

Substance or Characteristic**	Limiting Concentration or Range
5-day Biochemical Oxygen Demand*	10 milligrams per liter
Ammonia as Nitrogen	1 milligram per liter
Total Suspended Solids*	10 milligrams per liter
Dissolved Oxygen	4 milligrams per liter

*The concentration specified in Regulation WPC-14 section (c)(6) may be used in lieu thereof if the discharge of effluent is restricted to the spring flush or other high runoff periods when the stream flow rate above the discharge point is sufficiently greater than the effluent flow rate to insure that the applicable water quality standards are met during such discharge periods.

**If treatment works are designed and constructed to meet the specified limits given above for a continuous discharge, at the discretion of the Agency the operation of such works may allow for the effluent quality to vary between the limits specified above and in WPC-14 (c)(6), provided the water quality standards of WPC-14 and all other requirements of the Agency and any permit issued by the Agency in conjunction with the U.S. Environmental Protection Agency are being met. Such variability of operation must be based on adequate monitoring of the treatment works and the effluent and receiving waters as specified by the Agency.

(e) Determination of Compliance. Compliance will be based on effluent samples which are representative of the discharge. In making tests or analyses of the sewage, industrial wastes or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and of such type, number and frequency as may be considered satis-

factory by the Agency from the viewpoint of adequately reflecting the condition of the composition of the effluents. Reasonable allowance will be made for dilution of the effluents, which are in compliance with Section (d), to meet established water quality standards following discharge into waters of the State. The Agency by allowing dilution may consider the effect on all uses of the waters into which the effluents are discharged. The samples shall be preserved in accordance with procedures given in the 1971 edition of Standard Methods for the Examination of Water and Waste-Water, by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, and any revisions or amendments thereto. Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to 33 Section 1314 of FWPCA and Minnesota Statutes Section 115.03, Subdivision 1(e)(7), as amended. The Agency may accept or may develop other methods, procedures, guidelines or criteria for measuring, analyzing and collecting samples. The arithmetic mean for concentrations of 5-day biochemical oxygen demand, ammonia, dissolved oxygen, and total suspended solids shall not exceed the stated values in Section (d) of this regulation in a period of 30 consecutive days.

(f) Variance from Standards. In any case where, upon application of the responsible person or persons, the Agency finds that by reason of exceptional circumstances the strict enforcement of any provision of these standards would cause undue hardship, that disposal of the sewage, industrial waste

or other waste is necessary for the public health, safety or welfare; and that strict conformity with the standards would be unreasonable, impractical or not feasible under the circumstances; the Agency in its discretion may grant a variance therefrom upon such conditions as it may prescribe for prevention, control or abatement of pollution in harmony with the general purposes of these classifications and standards and the intent of the applicable state and federal laws. The U.S. Environmental Protection Agency will be advised of any permits which may be issued under this clause together with information as to the need therefor.

APPROVED AS TO FORM AND LEGALITY
MAY 12 1976 19
WARREN SPANNAUS, ATTORNEY GENERAL
BY /s/ Michael B. Miller
SPECIAL ASSISTANT ATTORNEY GENERAL

STATE OF MINNESOTA
DEPARTMENT OF STATE
FILED
MAY 12 1976 - 4:20 pm
Joan Anderson Growe
Secretary of State

FILED
RICHARD L. BRUBACHER
Commissioner of Administration
MAY 13 1976
BY Eda Henderson
AUTH. SIGNATURE
AS 10:15 AM

STATE OF MINNESOTA

COUNTY OF RAMSEY

MINNESOTA POLLUTION

CONTROL AGENCY

In the Matter of the Adoption of Effluent Limitations for Dischargers of Waste Water to the Vermillion River Based on a Waste Load Allocation Study

ORDER FOR HEARING

Pursuant to Minnesota Statutes, Sections 15.0412 and 115.44, the Agency deems it necessary to receive and review testimony and evidence bearing upon the Adoption of Effluent Limitations for Dischargers of Waste Water to the Vermillion River Based on a Waste Load Allocation Study.

NOW, THEREFORE, IT IS ORDERED, this 26th day of March, 1975, that a public hearing be held on the above-referenced matter.

IT IS FURTHER ORDERED, that notice of said hearing be given to all representatives of associations or other interested groups or persons who have registered their names with the Minnesota Pollution Control Agency for that purpose.

IT IS FURTHER ORDERED, that the authority to appoint a hearing officer in this matter is delegated to the Executive Director.

Dated: March 18 , 1975.

MINNESOTA POLLUTION CONTROL AGENCY

GRANT J. MERRITT
Executive Director

HAROLD D. FIELD, JR.
Chairman

CERTIFICATE OF BOARD'S
AUTHORIZING RESOLUTION

I, GRANT J. MERRITT, do hereby certify that I am Executive Director of the Minnesota Pollution Control Agency, an agency duly authorized under the laws of the State of Minnesota, and that at a meeting of the Board of the Minnesota Pollution Control Agency, duly and properly called and held on the 18th day of February, 1975; a quorum was present at said meeting; that a majority of those present voted for a Resolution to call a hearing In the Matter of the Adoption of Effluent Limitations for Dischargers of Waste Water to the Vermillion River Based on a Waste Load Allocation Study.

IN WITNESS WHEREOF, I have hereunto subscribed my name this 18th day of March, 1975.

GRANT J. MERRITT
Executive Director
Minnesota Pollution
Control Agency

STATE OF MINNESOTA

COUNTY OF RAMSEY

MINNESOTA POLLUTION

CONTROL AGENCY

In the Matter of the Adoption of
Effluent Limitations for Dischargers
of Waste Water to the Vermillion
River Based on a Waste Load Allocation
Study

NOTICE OF HEARING

Notice is hereby given that a public hearing in the above-entitled matter will be held pursuant to Minnesota Statutes, sections 15.0412 and 115.44 in the Board Room of the offices of the Minnesota Pollution Control Agency in the City of Roseville, Minnesota, 1935 West County Road B2, beginning at 9:00 a.m. on Wednesday, March 26, 1975, to continue until all interested persons, representatives and organizations have had an opportunity to be heard concerning the adoption of the proposed effluent limitations captioned above, by submitting oral or written data, statement, comments or arguments. All testimony shall be given under oath or affirmation. Statements may be mailed to the Agency at the address below for submission into the record at any time prior to closing of the record. The record shall close at 4:30 p.m. on the twentieth day following the adjournment of the hearing.

The Agency proposes effluent limitations for point source dischargers on the Vermillion River. These effluent limitations were developed pursuant to a waste load allocation study which considers the water quality of the river in relation to the wastes that are flowing into the river.

Based on the waste load allocation study of the Vermillion River, effluent limitations were developed for various parameters to insure compliance with applicable water quality standards.

Copies of the proposed effluent limitations for specific point dischargers may be obtained by writing to John McGuire, Division of Water Quality, Section of Surface and Groundwaters, Minnesota Pollution Control Agency, 1935 West County Road B2, Roseville, Minnesota, 55113.

Dated this 20th day of February, 1975.

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

By Lyle H. Smith
Lyle H. Smith
Hearing Officer

STATE OF MINNESOTA
MINNESOTA POLLUTION CONTROL AGENCY
AFFIDAVIT OF SERVICE

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

Bennett M. Davis, being duly sworn, deposes and says:

1. That he is an employee of the Pollution Control Agency of the State of Minnesota.

2. That on the 20th day of February, 1975, he went to the Secretary of State's Office for the State of Minnesota and requested a current set of 406 mailing labels and the pollution control list of all representatives of associations or other interested groups of persons who had registered their names with the Secretary of State for the purpose of obtaining notices of public hearings relating to the promulgation of rules pursuant to M.S. 15.0412.

3. That on the above date, in response to the above request, the Secretary of State provided him with such lists, copies of which are attached hereto and incorporated by reference.

Bennett M. Davis

Subscribed and sworn to
before me this 3rd day
of March, 1975.

Lila Holmdahl

LILA HOLMDAHL
Notary Public, Hennepin County, Minn.
My Commission Expires Oct. 31, 1976

MAILING LIST ADDITIONS

1. Mr. Joe W. Grant
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   Sprinfield, Missouri 65805

2. Mr. James Warring
   Planning Director
   1560 W. T. H. 55
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3. Mr. Gerald E. Stelzel, Chr.
   Planning Advisory Commission
   18875 Chippendale Avenue West
   Farmington, Minnesota 55024

4. Mr. Clarence O. Quie
   County Extension Agent
   325 3rd Street
   Farmington, Minnesota 55024

5. County Board of Commissioners
   c/o Auditor
   Dakota County Courthouse
   Hastings, Minnesota 55033

6. Hastings Gazette
   Hastings, Minnesota 55033

7. Metropolitan Waste Control Commission
   350 Metro Square Building
   St. Paul, Minnesota 55101

8. 1367 145th Street East
   Rosemount, Minnesota 55068

9. Mayor Norbert Seurer
   City Hall
   New Market, Minnesota 55054

10. Mayor Elmer Kikow
    Vermillion, Minnesota 55085

11. Mayor Irene Viall
    Hampton, Minnesota 55031

12. Mayor Lawrence Daily
325 Oak Street
Farmington, Minnesota 55024

13. Mayor Robert Wilson
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14. Fred J. Larsen
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Vermillion Rivers

POLLUTION CONTROL AGENCY
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ANDERSON STANFORD P
14600 MINNETONKA BLVD
MINNETONKA MN
55343

ANTHONY DICK WDSM RADIO
230 E SUPR ST
DULUTH MN
55102

ARNOLD ROBERT MESPA
41 SHERBURNE
ST PAUL MN
55103

ARROWHEAD REGIONAL DEV CO
900 ALWORTH BLDG
DULUTH MN
55802

ASSOCIATED GEN CONTROF MN
910 BUILDERS EX BLDG
MPLS MN
55402

ASSOCIATED INDUST OF MPLS
NATIONAL BLDG
MPLS MN
55402

AUTOMOBILE MFRS ASSN INC
55 SHERBURNE AVE
ST PAUL MN
55103

BARRETT FRED
ST LOUIS CO COURT HOUSE
DULUTH MN

BARKER KENT
8100 34TH AVE SO
MPLS MN
55420

BECKLIN ROBERT C
447 N W 4TH
CAMBRIDGE MN
55008

BEECHER EVERETT
10 10 1ST ST SO
HOPKINS MN

BERGERUD ALF
300 ROANOKE BLDG
MPLS MN
55402

BEST FLANAGAN ET AL
1ST NATL BANK BLDG
MPLS MN
55402

BREHL JAMES W
332 HAMM BLDG
ST PAUL MN
55102

BRIGGS & MORGAN - B F FRI
2200 W 1ST NATL BK BLDG
ST PAUL MN
55101

BROOKS WILLIAM F JR
854 MIDLAND BK BLDG
MPLS MN
55401

BROWN D M GOODRIDGE PUB S
IND DIST #561
GOODRIDGE MN
56725

BURGER ALBERT
600 DEGREE OF HONOR BLD
ST PAUL MN
55101

BUR.ENGR.IND.DIV. MR.KIBI
219 N. 2ND ST.
MPLS. MN

Beutel, Robert
2200 Silver Lake Rd
New Brighton, MN
55112

CAIN RUTH
730 E 38TH ST
MPLS MN
55407

CARLSON VERNE E
BOX 755 CITY HALL
WILLMAR MN
56201

CARRISON DALE K
MANKATO STATE COLLEGE
MANKATO MN
56001

CHAMBER OF COMMERCE
30 SO 1ST AVE EAST
ELY MN
55731

CHAMBERLAIN JOHN L
PO BOX 241
MPLS MN
55440

CHRISTIAN SCI COMM ON PUB
1821 UNIV AVE SUITE 271
ST PAUL MN
55104

CITY CLERK
366 CITY HALL
ST PAUL MN
55102

CLAUSEN PHILLIP
2255 PRESCILLA ST
ST PAUL MN
55108

COLEMAN NICHOLAS D
700 LINWOOD AVE
ST PAUL MN
55105

CONCORDIA COLLEGE
DEAN
MOORHEAD MN
56560

CONSUMER SERVICES DEPT CO
5TH FLR METRO SQ BLDG
ST PAUL MN
55101

CROW WING CO PLANNING & ADV
COURT HOUSE
BRAINERD MN
56401

CUSHMAN J S DAYTON HUDSON
700 NICOLLET MALL
MPLS MN
55402

DANKERS, KENNETH
1200 WEST FOURTH STREET
RED WING MN
55066

DANIELSON RODNEY L
418 AUDITORIUM
ST PAUL MN
55102

DIEHL JOHN
26 KENWOOD PKWY
ST PAUL MN
55105

DISPATCH PIONEER PRESS
PRESS RM STATE CAPITOL
ST PAUL MN
55101

DOW CHEMICAL
47 BLDG
MIDLAND MI
48640

DOYTON MAURICE, MET SEWER
350 METRO SQ BLDG
ST PAUL MN
55101

EBELING EDWARD H.
161 W. MAIN
PERHAM MN
56573

ELDRED R W ARMOUR & CO
UNION STOCK YARDS
SO ST PAUL MN
55075

ELMER EDWIN W
2901 PLEASANT AVE
MPLS MN
55408

BUR NATL AFFAIRS INC
1231 25TH ST NW
WASHINGTON DC
20037

BUSCH NCEL
3131 FERNBROCK LANE N
MPLS MN
55441

CAIRNS JOHN A
1460 NW BK BLDG
MPLS MN
55402

CARLSON CARL L
7516 80TH ST S
COTTAGE GROVE MN
55016

CENTRAL BUSINESS DATA
BENSON RADIO ARCADE BLD
BENSON MN
56215

CENTRAL MN REGIONAL DEV COMM
1139 FRANKLIN AVE
SAUK RAPIDS MN
56379

CHERCHES CHRIS CITY MGR
5005 MTKA BLVD
ST LOUIS PARK MN
55416

CITIZENS LEAGUE
530 SYNDICATE BLDG
MPLS MN
55402

CLARKSON J.B.
2350 I.D.S. CENTER
MINNEAPOLIS MN
55402

COLLIN LAURENCE
RT 2
ISANTI MN
55040

COMMUNITY DESIGN CENTER
118 E 26TH ST
MPLS MN
55404

COUNTY ATTYS COUNCIL
95 SHERBURNE AVE S203
ST PAUL MN
55103

COX AND KING
600 BUILDERS EXCH
MPLS MN
55402

DANFORTH & ALLEN
731 NW BANK BLDG
MPLS MN
55402

DAYTON CHAS SIERRA CLUB
800 MIDLAND BANK BLDG
MPLS MN
55401

DICKINSON MRS JOANNE
BOX 1065
MARSHALL MN
56258

DORSEY MARQUART
2400 1ST NATL BANK BLDG
MPLS MN
55402

DOUGLASS BELL
525 OSBORN BLDG
ST PAUL MN
55102

DUDLEY E H
RT 7 BOX 122
EXCELSIOR MN
55331

DUNN OLIVER PLUMBERS LOC 15
708 SC 10TH ST
MPLS MN
55404

EDINA FIRE D JAMES MCNELLIS
4801 W 50TH ST
EDINA MN
55424

ELDER DR JAMES B
11140 WASHBURN AVE SC
BLOOMINGTON MN
55431

EMERICK RICHARD A
1908 IDS CENTER
MPLS MN
55402

ENV SERV-GEN RESOURCE CORP
6340 INDUSTRIAL DR
HOPKINS MN
55343

ESSE KENNETH
4801 W 50TH ST
EDINA MN
55424

EVANS CHAS.L. PRENTICE-HALL
ENGELWOOD CLIFFS
NEW JERSEY

EWING MRS WM
42 ASTAR RD
BABBITT MN
55706

FELHABER R S
W 1ST NATL BANK BLDG
ST PAUL MN
55101

FINLEY JAMES F
920 MINN BLDG
ST PAUL MN
55101

FLEMING FREDERICK A
1860 HIGHLAND PARKWAY
ST PAUL MN
55116

FITZGERALD DR BOB
3007 LYNDALE AVE SO
MPLS MN
55408

FOX W.E. LINDQUIST & VENNUM
4200 IDSCTR 80 S.8TH ST
MINNEAPOLIS MN
55402

FRANKLIN ROBERT B MPLS TRIB
426 PORTLAND
MPLS MN
55415

FROST THOS R
RM 391 STATE OFF BLDG
ST PAUL MN
55155

FURLONG DR JOHN
RT 1
BOVEY MN
55709

GALVIN M J JR
W2162 1ST NATL BK BLDG
ST PAUL MN
55101

GEBERT K L
220 GRAIN EXCH
MPLS MN
55415

GIEL DAVID
RM B-28 STATE CAPITOL
ST PAUL MN
55155

GLEESON MICHAEL
909 SOC SC BLDG U OF M
MPLS MN
55455

GRAHAM THOS H
854 MIDLAND BK BLDG
MPLS MN
55401

GRANATH MARVIN -HONEYWELL
2701 4TH AVE SO
MPLS MN
55408

GREEN JANET
9773 N SHORE DR
DULUTH MN
55804

GUSTAFSON DAN-LABOR TEMPLE
312 CENTRAL
MPLS MN
55414

H B FULLER CO
2400 KASOTA AVE
ST PAUL MN
55108

HANFT PHILIP M
1200 ALWORTH BLDG
DULUTH MN
55802

HARVEY MICHAEL
1390 W M HAHA PKWY
MPLS MN
55409

HALLBERG LEE & MCCABE
4927 34TH AVE S
MPLS MN
55417

HESS DONALD MIDWEST PLANNING
2101 HENN BLDG
MPLS MN
55405

HART PATRICK V
112 E LIBERTY BOX 3271
MANKATO MN
56001

HEINTZ MARY ELLEN
PO BOX 599
CINCINNATI OH
45201

HEISENFELT WM
BOX 516
BEMIDJI MN
56601

HINRICHSEN PATRICK
MANKATO FREE PRESS
MANKATO MN
56001

HOLDAHL SCOTT
380 N BLDG GRAIN EXCH
MPLS MN
55415

HOUSE APPROPRIATIONS COMM
RM 109 STATE CAPITOL
ST PAUL MN
55101

HOUSE ED STANDING SUB COMM
RM 109 STATE CAPITOL
ST PAUL MN
55101

HUMAN RIGHTS DEPT
60 STATE OFF BLDG
ST PAUL MN
55101

HUNT JAMES P JR
11470 GALTIER DR
BURNSVILLE MN
55378

INGEBRIGTSEN DR K H
23 SE 4TH ST
MPLS MN
55414

IUOE LOC 49 CHAS SWENSON
2580 UNIV AVE
ST PAUL MN
55101

IVERSON DR JOS DEPT ED
ST OLAF COLLEGE
NORTHFIELD MN
55057

JACKMAN DONALD G
4023 E LAKE ST
MPLS MN
55406

JENOS INC
525 LAKE AVE SO
DULUTH MN
55801

JOHNSON M.D. FRUNDT & FRUNDT

BLUE EARTH MN
56013

JOHNSON LANCE J
265 S LAFAYETTE RD
ST PAUL MN
55107

KEENAN RICHARD J
4444 IDS BLDG
MPLS MN
55402

KIMBALL ROBERT
647 CAPITOL SQ BLDG
ST PAUL MN
55101

KLUZ STEVEN J
1910 1ST NATL BK BLDG
MPLS MN
55402

KNUDSON ROBT
4375 BROWNDALE AVE
MPLS MN
55424

HAYES,THOMAS W
700 SELLWOOD BLG
DULUTH MN
55812

HEALTH MANPOWER C LARSON
717 DELAWARE ST SE
MPLS MN
55440

HARTFELDT WILL
415 HAMM BLDG 6TH ST
ST PAUL MN
55102

HEAD & TRUHN
1007 SOO LINE BLDG
MPLS MN
55402

HICHINGER-MARK PLANNING
421 WABASHA ST
ST PAUL MN
55102

HILL JIM ASSOC.MILK PROD
7850 METRO PARKWAY
MINNEAPOLIS MN
55420

HOPKINS WM.B. DIR.MISCCA
3915 GOLDEN VALLEY ROAD
GOLDEN VALLEY MN
55422

HOULE MELVIN
381 W HWY 96
SHOREVIEW MN
55112

HULSTRAND ANDERSON & LARSON
PO BOX 130
WILLMAR MN
56201

HULTMAN WARREN R
C/O BARBAROSSA R3
OSSEO MN
55369

HUTCHISON R.M. ANOKA CO.COMP
COURT HOUSE
ANOKA MN
55303

HYLAND DEAN
1501 W 50TH ST
MPLS MN
55419

INGVALSON VERN MN.FARM BUR.
3110 WOODDALE DR PO 337
OST PAUL MN
55165

INS FED OF MINN
902 SOO LINE BLDG
MPLS MN
55402

IZAAK WALTON LEAGUE MN DIV
106 TIMES BLDG 57 S 4TH
MPLS MN
55401

JENSEN CARL A
127 E MAIN ST
SLEEPY EYE MN
56085

JOHNSON & SANDERSON
ST MARYS HOSPITAL
ROCHESTER MN
55901

KABLE RICHARD W
BETHEL MN
55006

KING,TIMOTHY
3333 OAKLAND AVE S
MPLS MN
55407

KLOSTER MARION PEAVEY CO
730 2ND AVE S
MPLS MN
55402

KNUTSON DR KEITH,BIOLOGY DPT
ST CLOUD STATE
ST CLOUD MN
56301

KNUTSON R N GRANNIS ETAL
F J SCHULT BLDG
ST ST PAUL MN
55075

KOLLER MR & MRS ERWIN A
1568 DULUTH ST
ST PAUL MN
55108

KOPP MRS VERNON
2050 65TH ST E
INVER GR HGHT MN
55075

KRONLOKKEN J E
10048 NORD RD
BLOOMINGTON MN
55437

LANGVIN DAVID
7500 80TH ST S
COTTAGE GROVE MN
55016

LANSING & CAKES
400 SIBLEY ST
ST PAUL MN
55101

LARSON HANS P DIV HOSP SERV
717 DELAWARE ST SE
MPLS MN
55440

LEAGUE MN MUNIC
300 HANOVER 480 CEDAR
ST PAUL MN
55101

LINDALL & JONATHAN DEVELOP.
VILLAGE ONE CENTER
CHASKA MN
55318

LOCKNER GARY
R R 1 BOX 23
BAUDETTE MN
56623

LYNCH DONALD SIBLEY CO
184 E 6TH ST
ST PAUL MN
55102

MCKIBBON MRS SHIRLEY
11 EVERGREEN LN
BABBITT MN
55706

MCLELLAN LARKIN
215 ADM BLDG ST CAPITOL
ST PAUL MN
55101

MANKATO STAT STUDENT SENATE
CENTENNIAL STUDENT UN
MANKATO MN
56001

MANKATO STATE STUDENT ASSN
BOX 58 MANKATO COLLEGE
MANKATO MN
56001

MAUL WARREN E
320 S 4TH ST
MPLS MN
55415

MAYO FOUNDATION G ORWOLL
200 FIRST AVE NW
ROCHESTER MN
55901

MERRITT GRANT POLLUTION CONT
1935 W CO RD 32
ROSEVILLE MN
55113

MET TFR MEN ASSN A ROSENTHAL
1821 UNIV AVE
ST PAUL MN
55104

MILLER RICHARD A
1020 PLYMOUTH BLDG
MPLS MN
55402

MILLER TOM
2311 PILLSBURY AVE S
MPLS MN
55404

MPLS STAR PRESS ROOM
STATE CAPITOL
ST PAUL MN
55101

MPLS TRIBUNE CITY DESK
425 PORTLAND AVE
MPLS MN
55415

KORTZ MRS LOUISE
1064 FOREST HILLS DR SW
ROCHESTER MN
55901

KRAMER ERNEST W
717 DELAWARE ST SE
MPLS MN
55440

LAKE SUPERIOR INDUSTRIAL BUR
828 FIRST AM. BK. BLDG.
DULUTH MN
55802

LANAHAN E F - SIBLEY CO
184 E 6TH ST
ST PAUL MN
55101

LAPP LAZAR LAURIE ET AL
1200 BUILDERS EXCHANGE
MINNEAPOLIS MN
55402

LARSON C L
3800 MINNEHAHA AVE SO
MPLS MN
55406

LEAGUE WOMEN VOTERS OF MINN
555 WABASHA
ST PAUL MN
55102

LIBBEY LEONARD
BOX 17011 NOKOMIS STA
MPLS MN
55417

LOOS CALVIN J
6809 LYNDALE AVE SO
MPLS MN
55423

LOWE DOUG
2701 N LEXINGTON AVE
ROSEVILLE MN
55113

MCDONALD PHILIP M
2077 SELBY AVE
ST PAUL MN
55104

MCFADDEN G H DISPATCH-PR
55 E 4TH ST
ST PAUL MN
55101

MALONE E I COMM LABOR & I
444 LAFAYETTE RD 5TH FL
ST PAUL MN
55101

MANTHEY T J PICKANDS MATHER
1100 SUPERIOR AVE
CLEVELAND OH
44114

MASTOR & MATTSON LTD
315 PEAVEY BLDG
MPLS MN
55402

MECCA
867 GRAND AVE
ST PAUL MN
55105

MEIEROTTO, JOAN
1794 SO LEXINGTON
ST PAUL MN
55118

METROPOLITAN COUNCIL LIBRARY
300 METRO SQUARE
ST PAUL MN
55155

MIDLAND GLASS- HD SPURLIN
PO BOX 69
SHAKOPEE MN
55379

MPLS CHAMBER COMM TRANSP DPT
15 S 5TH ST
MPLS MN
55402

MPLS CITY ATTORNEY
325M CITY HALL
MPLS MN
55415

MIDLAND GLASS-HD SPURLING
PO BOX 69
SHAKOPEE MN
55379

MINN APT ASSN
GRIGGS-MIDWAY BLDG
ST PAUL MN
55104

MINN ASPHALT PAVEMENT ASSN
555 WABASHA RM 209
ST PAUL MN
55102

MINN ASSN COOPERATIVES
55 SHERBURNE AVE
ST PAUL MN
55103

MINN ASSN WATERSHED DIST'S

ADA MN
56510

MINN AUTOMOBILE DEALERS A
GRIGGS MIDWAY BLDG
ST PAUL MN
55104

MINN COUNCIL STATE EMP NO 6
475 RICE ST
ST PAUL MN
55103

MINN DEPT HEALTH J C MCKA
717 DELAWARE S E
MPLS MN
55440

MINN ENV LAW INST INC
PO BOX 15076 COMM STA
MPLS MN
55415

MINN FARMERS UNION PRES O
1275 UNIV AVE
ST PAUL MN
55104

MINN. HOTEL & MTR. ASSN
2001 UNIVERSITY AVE
ST PAUL MN

MINN HOUSING INST N T CAR
7801 METRO PKWY
MPLS MN
55420

MINN LP GAS ASSN
7515 WAYZATA BLVD 106
MPLS MN
55426

MINNE MINE CREDIT UNION
3000 HUDSON PK S 100
ST PAUL MN
55119

MINN POULTRY & HATCHERY ASSN
BOX 158
MADELIA MN
56062

MINN RETAIL FEDERATION
7600 PARKLAWN STE 457
MPLS MN
55435

MINN RETAIL HARDWARE ASSN
3033 EXCELSIOR BLVD 313
MPLS MN
55416

MINN SOC CERTIFIED PUB ACCTS
1102 WESLEY TEMPLE BLDG
MPLS MN
55403

MINN STATE BAR ASSN
100 MINN FED BLDG
MPLS MN
55402

MINN STATE MED ASSN
375 JACKSON ST
ST PAUL MN
55101

MINN STATE RETIREMENT SYS
529 JACKSON ST
ST PAUL MN
55101

MINN.TURKEY GROWERS ASSN
2383 UNIV AVE
ST PAUL MN
55114

MINN VETERANS MED ASSN
24 S 6TH ST
MPLS MN
55402

MN PUB INT RESEARCH GROUP
3036 UNIV AVE SE
MPLS MN
55414

MOFFITT R.C. DIR.ENV.CONT
MPLS.CITY HALL RM 301M
MPLS MN
55415

MN. ASN.C&IND H.D.PETERSON
480 CEDAR ST.
ST.PAUL MN
55101

MINN AFL-CIC, L O LA SHOMB
414 AUDITORIUM ST
ST PAUL MN
55102

MINN ASSN ELEC COOPERATIVES
4901 W 77TH ST
MPLS MN
55435

MINN. ASSN. PET RETAILERS
1115 2ND AVE. SO.
MINNEAPOLIS MN
55403

MINN COMM FOR HANDICAPPED
METRO SQ 492 7TH & ROBT
ST PAUL MN
55101

MINN COMMUNITY DEVELOP SERV
512 ROSSMOR BLDG
ST PAUL MN
55101

MINN DENTAL HYGIENISTS'
5041 YVONNE TERRACE
MPLS MN
55436

MINN ELECTRICAL ASSN INC
525 SO 7TH
MPLS MN
55415

MINN FOOD RETAILERS ASSN
555 WABASHA
ST PAUL MN
55101

MINN HEREFORD-LJ SCHAFER

BUFFALO LAKE MN
55314

MINN HWYS MANAGEMENT SERVICE
407 HWY BLDG
ST PAUL MN
55101

MINN LAND USE COMMITTEE
4344 IDS CENTER
MPLS MN
55402

MINN.MTR.TRANSP. .J.N.DENN
1821 UNIV.
ST.PAUL MN
55104

MINN PETROLEUM COUNCIL
1020 NORTHERN FED BLDG
ST PAUL MN
55102

MN REP STATE CENTRAL COMM
555 WABASHA AVE
ST PAUL MN
55102

MINN RESTAURANT ASSN
2001 UNIVERSITY AVE.
ST PAUL MN 55
104

MINN SCH BUS OPERATORS ASSN

FARIBAULT MN
55021

MINN SOCIETY ARCHITECTS AIA
NW NATL BK BLDG
ST PAUL MN
55101

MINN ST BD PHAR P G GRUSSING
1965 FORD PKWY
ST PAUL MN
55116

MINN STATE CAPITOL EMP UNION
PO BOX 3215
ST PAUL MN
55165

MINN TEAMSTERS CREDIT UNION
2021 HENN AVE E
MPLS MN
55413

MINN TBR PRODUCERS ASSN
200 CHRISTIE BLDG
DULUTH MN
55802

MINN WATER RESOURCES BD
RM 206 555 WABASHA ST
ST PAUL MN
55102

MINN-WISC BOUNDARY AREA COMM
600 2ND ST
HUDSON WI
54016

MOOD R BLOOMINGTON HLTH DEPT
10200 PENN SO
BLOOMINGTON MN
55431

MOONEY, MICHAEL A.
BOX 903, ST.JOHN'S UNIV
COLLEGEVILLE MN
56321

MUELLER SHIRLEY A
787 W COTTAGE AVE
ST PAUL MN
55117

NATL COUNCIL JEWISH WOMEN
4330 CEDAR LK RD
MPLS MN
55416

NATL FAMILY INS CO
2147 UNIV AVE
ST PAUL MN
55114

NELSON DONALD E NSP CO
414 NICOLLET AVE
MPLS MN
55401

NEDELL HAROLD - MEINEKE
6300 W LOOP S SUITE 200
BELLAIRE TX
77401

NIELSEN STOCK & BLACKBURN
415 730 BLDG
MPLS MN

NO SUB MONTESSORI-S SADDLER
2487 HELEN COURT
NO ST PAUL MN
55109

NURSING HOME ADMRS BD EXAMRS
277 W UNIV AVE
ST PAUL MN
55103

NUTTER JULIA
743 W MONTANA
ST PAUL MN
55117

O'BRIEN J.DENNIS
1100 1ST NATL.BANK BLDG
MINNEAPOLIS MN
55402

OCONNOR GREEN THOMAS ET AL
845 NW BANK BLDG
MPLS MN
55402

OSTRUM DONALD E
10213 PIERCE ST NE
BLAINE MN
55434

OTTER TAIL POWER CO.
215 S. CASCADE ST.
FERGUS FALLS MN
56537

PAYNE COL ALVIN

DEGRAFF MN
56233

PAYNE WM B
2400 FIRST NATL BK BLDG
MPLS MN
55402

PHAR MFGRS ASSN WM D PATTON
1155 15TH ST NW
WASHINGTON DC DC
20005

PHILLIPS LEGISLATIVE SERVICE
459 RICE ST
ST PAUL MN
55103

PORT AUTH CITY OF ST PAUL
330 MINNESOTA BLDG
ST PAUL MN
55101

POSS DONALD G
6301 SHINGLE CREEK PKWY
BROOKLYN CTR MN
55430

PULSCHER RBT SPRINGSTED INC
813 OSBORN BLDG
ST PAUL MN
55102

MORTON BUILDINGS INC
R #1
FOLEY MN
56329

MPIRG
BOX 45 ST MARYS COLLEGE
WINONA MN
55987

NASS GEO V HENN CO GEN HOSP
5TH AND PORTLAND AVE
MPLS MN
55415

NATL CAR RENTAL ATT D MIT
5501 GREEN VALLEY DR
MPLS MN
55437

NAT'L SOLID WASTES-R. GRASSO
1730 RHODE ISLAND AV.NW
WASHINGTON DC
20036

NCEC INC C/O DR DAHLBERG
CONCORDIA COLLEGE
MOORHEAD MN
56560

NESBITT JOHN
7851 METRO PKWY S 118
MPLS MN
55420

NEUMAN RALPH W
RT 2 BOX 125
EMBARRASS MN
55732

NORTH CENTRAL ELEC ASSN
PO BOX 202
BATTLE LAKE MN
56515

NW COUNTRY ELEVATOR ASSN
802 GRAIN EXCH BLDG
MPLS MN
55415

NW BELL TEL CO LEGAL DEPT
224 S 5TH ST RM 2000
MPLS MN
55402

NYQUIST DEAN A
3707 53RD PL N
BROOKLYN CTR MN
55429

OFFICE OF THE GOVERNOR
130 STATE CAPITOL
ST PAUL MN
55101

OLD COLONY GAS & OIL COMP
17TH AVE N AT 2ND ST
MPLS MN
55411

PATTISON ORVIS
BOX 645
WILLMAR MN
56201

PETERSON JOHN W
510 NW BK BLDG
ST PAUL MN
55101

PETERSON GARY
854 MIDLAND BK BLDG
MPLS MN
55401

POPOVICH PETER S
314 MINN BLDG
ST PAUL MN
55101

PORTER LYLE O

TRACY MN
56175

POYZER ROBT
BOX 675
FERGUS FALLS MN
56357

PRAUSE JOS.C.
2220 105TH AVE.N.W.
COON RAPIDS MN
55433

QUIRIN E W
408 HWY BLDG
ST PAUL MN
55155

RADMAN RICHARD-LABOR TEMPLE
418 AUDITORIUM
ST PAUL MN
55102

RANALLC CLARENCE
800 CENTRAL AVE N E
MPLS MN
55413

REID DAVID H
5633 WASHBURN AVE S
MPLS MN
55410

RENNER R.H. ST PAUL AREA CC
300 OSBORN BLDG.
ST PAUL MN
55102

RICHARDS MONTGOMERY ET AL
1430 RAND TOWER
MPLS MN
55402

ROE DAVID
175 AURORA
ST PAUL MN
55103

ROSS ALFRED
6356 WARE RD
LINO LAKES MN
55014

RUDY FLOYD
118 AVE C
CLOQUET MN
55720

SANFORD SID
7000 PORTLAND AVE
RICHFIELD MN
55423

SATHRE, HARVEY
375 MARION STREET
ST PAUL MN
55103

ST PAUL BUR HLTH DR P COX
555 CEDAR ST
ST PAUL MN
55101

ST PAUL FOOD RETAILERS ASSN
1220 ARCADE
ST PAUL MN
55106

SCHMIDT D R MN ASSN REALTORS
6101 WAYZATA BLVD
MPLS MN
55416

SCHMIDT H W TCHRS RETIREMENT
302 CAPITOL SQ BLDG
ST PAUL MN
55101

SCHUTZ LINDA
RM 328 CAPITOL BLDG
ST PAUL MN
55155

SCHWARTAU NEAL METH HOSP
201 W CENTER ST
ROCHESTER MN
55901

SCHNEIDER & NEESER
706 1ST ST SO PO BX 876
WILLMAR MN
56201

SCHROEDER ALFRED H
2172 CARROLL AVE
ST PAUL MN
55104

SENATE GOV OP COMM
RM 303 STATE CAPITOL
ST PAUL MN
55155

SHABATURA EUGENE H
2833 LAKE AVE SO
DULUTH MN
55811

SHELL OIL CO. W.A. ROQUET
ONE SHELL PLAZA BX 2463
HOUSTON TX
77001

SITE ENGINEERS INC
900 REDWELL LANE
APPLE VALLEY MN
55124

SMERIKA WN.
BOISE CASCADE PAPERS
INTL FALLS MN
56649

SNELL LYN
BOX 314
EDEN VALLEY MN
55329

RAUENHORST CORP-C ANDERSON
7900 XERXES S. S-2200
MPLS MN
55431

RED OWL STORES INC
215 E EXCELSIOR AVE
HOPKINS MN
55343

RAMSEY CO MEDICAL SOCIETY
1500 LOWRY MEDICAL BLDG
ST PAUL MN
55102

RICHARDSON THOS
7851 METRO PKWY S 103
MPLS MN
55420

ROBBIE JOSEPH
904 CARGILL BLDG NO CTR
MPLS MN
55402

ROBERTS DAVID E
1260 NW NATL BK BLDG
ST PAUL MN
55101

SAN SIMEON DEVELOP CORP
OLD 1ST STATE BK BLDG
PAYNESVILLE MN

SAX DOVE & STENSON
310 ENDICOTT BLDG
ST PAUL MN
55101

ST PAUL ASSN PLBG HTG MEC
614 AM NATL BK
ST PAUL MN

SCARBOROUGH WILLIAM
DIV.ED. U.M.
MORRIS MN
56267

SCHLICHT REV ROBT
611 W MAIN ST
BELLE PLAINE MN
56011

SCHMIDT LARRY WCCO-TV NEWS
50 S 9TH ST
MPLS MN
55402

SCHNEIDER MAHLON
GREEN GIANT
LESUEUR MN
56058

SCHWERMAN EARL JR
1535 8TH AVE SE
ROCHESTER MN
55901

SCHWINN ROBT.P.
1400 SOO LINE BLDG.
MPLS. MN
55402

SENATE COUN OFF J ST MARIE
STATE CAPITOL
ST PAUL MN
55101

SENATE FINANCE COMMITTEE
113 STATE CAPITOL
ST PAUL MN
55101

SHARP BOB
4125 HIGHWOOD RD
ST LOUIS PK MN
55416

SHAW ROBERT M
616 MOBIL OIL BLDG
MPLS MN
55402

SKELLY OIL CO R R WELLINGTON
PO BOX 436
KANSAS CITY MO

SLOCUM CHARLES A
1203 IDS TOWER
MPLS MN
55402

SNYDER ROBERT W
248 CO B U OF M
ST PAUL MN
55101

SODERMAN ANTHONY
152 S PLAZA BLDG
MPLS MN
55416

STANSFIELD A[illegible]ENE LAND OLKS
PO BOX 116
MPLS MN
55440

STA[illegible]BC. BARBER EXAMINERS
555 WABASHA
ST PAUL MN
55102

STEELWORKERS CREDIT UNION
BOX 250
BABBITT MN
55706

STENSLAND M.E. PRES. MVMA
203 NW 22ND ST.
AUSTIN MN
55912

STUPKA & MOREM
MIDTOWN BLDG
AUSTIN MN
55912

SULLIVAN J KIRK
PO BOX 200
BOISE ID
83701

SWANSON BURT E
W-2162 1ST NATL BK BLDG
ST PAUL MN
55101

SWANSON DALE
P O BOX 339
FOREST LAKE MN
55025

TATE VERN 3M CO
3M CENTER 220/6W
ST PAUL MN
55101

TIMESAVERS INC ATT R S VOLD
5270 HANSON COURT
MPLS MN
55422

TOUCHE ROSS & CO K H STOCKE
780 NORTHSTAR CNTR
MPLS MN
55402

UNION STOCK YARDS
ATTN PRES
SO ST PAUL MN
55075

VAN EVERA MUNDT ET AL
700 TORREY BLDG
DULUTH MN
55802

VERRILL JOHN E
DEPT SECONDARY ED UOF M
DULUTH MN
55812

VOSS REV GORDON O
11120 NE 7TH ST
BLAINE MN
55434

VOS LERCY
2137 BURNS AVE
ST PAUL MN
55119

WALTERS THOS H
4510 W 77TH ST STE 235
MPLS MN
55435

WANQUIST ALLEN
RM 252 FEDERAL BLDG
ST PAUL MN
55101

WHITLOCK A G
ECON LAB OSBORN BLDG
ST PAUL MN
55102

WM.MITCHEL COLLEGE LAW LIB.
2100 SUMMIT AVE.
ST.PAUL MN
55105

WIS FEEDER PIG MARKET CO-OP

FRANCIS CREEK WI

WOLKERSTORTER THEODORE
676 17TH AVE NW
NEW BRIGHTON MN
55112

PAUL J. MILLER
PHARMACY SERVICES
ST MARYS HOSP.
ROCHESTER MN 55901

STATE BD VETERINAR EXAMINER
C/O DR A C SPANNAUS DVM
WACONIA MN

STD AM LIF & ANNUITY CO
3801 W 50TH ST
MPLS MN
55410

STROBEL LOUIS
RM 1180 176 E 5TH ST
ST PAUL MN
55101

STOLPESTAD BROWN & SMITH
1550 NW BK BLDG
ST PAUL MN
55101

SUMMIT NATL BANK D L MORRILL
205 AURORA AVE
ST PAUL MN
55103

SUSSEL CO.ATTN:TED SCHWEN
1850 COMO AVE.
ST PAUL MN
55108

SWANSON GERALD H
212 CITY HALL
ROCHESTER MN
55901

SWEITZER R L HONEYWELL IN
2701 4TH AVE S
MPLS MN
55408

THOMPSON CONRAD
1107 23RD ST NW
ROCHESTER MN
55901

THOMPSON HESSIAN ET AL
1500 MIDWEST PLAZA BLDG
MPLS MN
55402

TWIN CITY RETAIL DRUGGIST AS
2388 UNIV AVE
ST PAUL MN
55104

VAN CLEVE JOHN H
2101 HENN AVE
MPLS MN
55405

VAN DRAKE STEPHEN R
BOX 353
PELICAN RAPID MN
56572

VILLAGE OF WOODBURY-F.STRONG
561 TOWER DRIVE
NEWPORT MN
55055

VOLDNESS PERRY
IDS 8TH & MARQUETTE
MPLS MN
55402

WALIGORA ROBERT
3228 SO 17TH AVE
MPLS MN
55407

WELK G V NORTHERN STATES
414 NICOLLET MALL
MPLS MN
55401

WESTIN CHAS W
220 MEDICAL ARTS BLDG
DULUTH MN
55802

WILEY ENTERPRISES
101 5TH AVE SE
OSSEO MN
55369

WILSON R GARY PDQ INDUSTR
1GATEWAY CENTER
PITTSBURGH PA
15222

WOZNIAK D D
401 FIRST FED BLDG
ST PAUL MN
55101

WYANT CLINTON W ATTY

ATKIN MN
56431

ERDMAN ROGER TENNANT CO
701 N LILAC DR
MPLS MN
55441

ERNEST K LEHMANN & ASSOC.
1409 WILLOW ST.
MPLS MN
55403

EVERETT JERRY NW PETRO ASSN
512 NICOLLET MALL RM917
MPLS MN
55402

EWALD DOUGLAS MINN HOSP A
2333 UNIV AVE SE
MPLS MN
55414

FAEGRE & BENSON ATTN LIBR
1260 NW BANK BLDG
MPLS MN
55402

FARMERS ELEVATOR ASSN
852 GRAIN EXCH BLDG
MPLS MN
55415

FINNEGAN J.R.
55 E. 4TH
ST.PAUL MN
55101

FLADLAND CLINTON MN L&P B
796 RAYMOND AVE
ST PAUL MN
55114

FORBES GORDON MINN RRS ASSN
203 HANOVER 480 CEDAR
ST PAUL MN
55101

FORSBERG AGR SERV
518 SUMMIT AVE
NEW ULM MN
56073

FREDIN CONRAD M
811 FIRST NATL BK BLDG
DULUTH MN
55802

FREDRIKSON BYRON ET AL
47TH FLR IDS CENTER M
PLS MN
55402

F W WOOLWORTH CO
3316 W 66TH ST
EDINA MN
55424

GEO A HORMEL & CO LAW DEPT
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AUSTIN MN
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1477 SELBY AVE.
ST PAUL MN
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3901 GOLDEN VALLEY RD.
MPLS. MN
55422

GODIN RALPH J
3824 47TH AVE SO
MPLS MN
55406

GREEN DEL CITY MGR
BLOOMINGTON CITY HALL
BLOOMINGTON MN
55431

GREEN GARY J
41 SHERBURNE AVE
ST PAUL MN
55102

GUSTAFSON WALLACE
BOX 567
WILLMAR MN
56201

HANSON ETHEL
2813 85TH AVE N
MPLS MN
55444

HAROLD J WESTIN CONSTRUCT
45 E 8TH ST
ST PAUL MN
55101

STATE OF MINNESOTA

COUNTY OF RAMSEY

MINNESOTA POLLUTION

CONTROL AGENCY

In the Matter of the Adoption of Effluent Limitations for Dischargers of Waste Water to the Vermillion River Based on a Waste Load Allocation Study

AFFIDAVIT OF SERVICE

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

John W. Jones, first being duly sworn, hereby deposes and says that in the City of Roseville, county and state aforesaid, on the 21st day of February, 1975, he served the foregoing Notice of Hearing by depositing in the United States mail at said City of Roseville, true and correct copies thereof, properly enveloped, with postage prepaid, and addressed to those named on the attached Service List.

John W. Jones

Subscribed and sworn to before me this 12th day of March, 1975.

Mary E. Wyatt
Notary Public

MARY E. WYATT
NOTARY PUBLIC — MINNESOTA
DAKOTA COUNTY
My Commission Expires July 30, 1981

STATE OF MINNESOTA

COUNTY OF RAMSEY

MINNESOTA POLLUTION

CONTROL AGENCY

In the Matter of the Adoption of Effluent Standards for Disposal Systems Discharging to the Vermillion River, WPC-41

STATEMENT OF NEED

The above-captioned standards are additions to existing regulations of the Minnesota Pollution Control Agency.

The need to adopt these regulations is primarily the result of requirements placed upon the State by the Federal Water Pollution Control Act Amendments of 1972 (33 U.S.C.A. 1251 et seq.) and the United States Environmental Protection Agency to meet and achieve national goals for water quality and requirements in existing State of Minnesota water quality regulations to insure compliance with water quality standards. The regulation is designed to comply with these requirements.

The Minnesota Pollution Control Agency staff has determined that the Vermillion River does not and will not meet the water quality standards as expressed in Minn. Regs. WPC 14 and 24 with the imposition of effluent standards required by 33 U.S.C.A. 1311 (b) (1) (A) and (B) and existing Minnesota effluent standards. Therefore, the River is considered to be water quality limited requiring the development of effluent limitations for point source dischargers which will maintain the water quality standards established by the above cited regulations.

For this purpose, the Minnesota Pollution Control Agency staff has utilized a computerized model of the Vermillion River which was developed for the United States Environmental Protection Agency by Water Resources Engineers, Walnut Creek, California. The model simulates the Vermillion River and is designed to estimate and predict the response of water quality in the river to changes in

physical, hydraulic, and waste load inputs. Through application of the computerized model, the Minnesota Pollution Control Agency staff has developed effluent limitations for point source dischargers into the Vermillion River which will assure maintenance of the water quality standards. These limitations are set forth in Minn. Reg. WPC 41.

Dated this 25th day of November, 1975

MINNESOTA POLLUTION CONTROL AGENCY

Marion Watson
Chairwoman

STATE OF MINNESOTA

COUNTY OF RAMSEY

MINNESOTA POLLUTION CONTROL

AGENCY

In the Matter of the Adoption of
Effluent Standards for Disposal
Systems Discharging to the Vermillion
River, WPC 41

FINDING OF FACT

The above-entitled matter came on for public hearing before the Minnesota Pollution Control Agency commencing at 9:00 a.m. on Wednesday, March 26, 1975, in the Board Room of the Offices of the Minnesota Pollution Control Agency, 1935 West County Road B2. Proper notice, as required by Minnesota Statute 15.0412 (1971) was served upon all persons, associations and other interested groups registered with the Secretary of State for that purpose.

After affording interested persons an opportunity to present written and oral data, statements and arguments, having heard all of the testimony, having considered all of the evidence adduced and upon the records, files and proceedings, the Agency finds the following:

1. The Vermillion River is classified and protected by State of Minnesota regulations WPC 14 and 24. WPC 24 classifies the Vermillion River as 2B, 3C, 4A, 4B, 5 and 6, and WPC 14 specifies water quality limitations for each of these classifications.

   In terms of the waste load allocation study, the water quality limitations of most direct concern are dissolved oxygen, ammonia and temperature. The limiting concentrations for these parameters are listed below:

Substance or Characteristic	Limiting Concentration*
Dissolved Oxygen	Not less than 6 milligrams per liter from April 1 through May 31, and not less than 5 milligrams per liter at other times.
Temperature	5°F above natural in streams based on monthly average of the maximum daily temperature, except in no case shall it exceed the daily average temperature of 86°F.
Ammonia (N)	1 milligram per liter

*Minn. Reg. WPC 14(d)(2) Class B

2. The Metropolitan Waste Control Commission, under project No. 71-03-2, has proposed to eliminate three waste treatment plants in the Western Vermillion Watershed and replace them with one larger regional waste treatment plant on the Vermillion River east of Farmington. The three waste treatment plants to be eliminated are the Lakeville, Apple Valley, and Farmington Plants. The proposed new regional waste treatment plant will have an initial design capacity of 6 million gallons per day (MGD) and will have a planned ultimate capacity of approximately 12 MGD. This point discharge will be located at river mile V-37.0 (reference Figure 1). This information is based upon a report entitled "Assimulative Capacity Estimates of the Vermillion River for Lakeville-Farmington Treatment Plant" by Metropolitan Waste Control Commission, October, 1974.

3. Mid-America Dairymen, Inc., Farmington also discharges to the Vermillion River. The principal activity at this facility is receiving milk, condensing milk, manufacturing of cultured products, condensing whey and drying whey. The discharge consists of contact and noncontact cooling water at an average rate of 1.5 MGD to the Vermillion River via a municipal storm sewer at river mile V-39.5 (reference Figure 1).

4. To determine what effluent limitations would be required for the proposed Lakeville-Farmington waste treatment plant and Mid-America Dairymen, Inc., to meet the existing water quality standards, a waste load allocation study was conducted. The purpose of a waste load allocation study is to establish effluent limitations for point source dischargers which insure that water quality standards in the receiving water are not violated. This type of study is authorized in Minnesota Statute Sections 115.44 and 115.03, Minnesota Reg. WPC 14 Section C and Sec. 301 (b)(1)(c) of the Federal Water Pollution Control Act Amendments of 1972.

5. For the waste load allocation study the Minnesota Pollution Control Agency staff utilized a computerized model of the Vermillion River which was developed for the U.S. Environmental Protection Agency by Water Resources Engineers, (WRE), Walnut Creek, California. The model has the capability to simulate major interactions of the nutrient cycles, algae production, benthic oxygen demand, carbonaceous and biochemical oxygen uptake and their effect on the behavior of dissolved oxygen. Figure 2 illustrates the conceptualization of the model.

   The model uses the classic Streeter-Phelp's formula describing the dissolved oxygen curve sag (DO) and is designed to estimate and predict the response of water quality in the river to changes in such things as reaeration, deoxygenation, flow, dissolved oxygen, biochemical oxygen demand, nutrients, waste loads, river area, river velocity and temperature. In general, the steps involved in estimating the assimilative capacity of the river can be summarized as follows:

   a. Develop a full understanding of the stream length, its channel geometry, water stage and flow pattern and the general hydrologic features of the watershed.

b. Determine the seven-day, once-in-ten-year flow of receiving stream and the flow of the waste discharge.

c. Obtain reasonable estimates (based upon sampling data and laboratory analysis) of the parameters defining the characteristics of the waste.

d. Compute the stream aeration coefficients based on channel geometry and flows.

e. Estimate the water temperature anticipated for the flow conditions and apply correction factors to all temperature dependent parameters.

f. Determine the mean DO (dissolved oxygen) concentration of the stream waters upstream of the waste discharge points. Knowledge of the DO concentration expected in the treated effluent and the DO levels upstream of the point allows computation of the initial DO concentration in the stream after discharge by a mass balance equation.

g. Determine the DO saturation for estimated water temperature. The difference between the saturation DO value and the initial DO concentration is the initial DO deficit.

h. Recalculate the parametric values whenever warranted where there is a significant physical change in the stream system or an addition or withdrawal of waters.

i. Allocate waste loadings to dischargers to insure that water quality standards are not violated.

6. In order to utilize the model the Agency, in this study, imposed minor changes to it and followed procedures which are outlined below:

a. The seven-day, once-in-ten-year low flow in the Vermillion River above the Mid-America Dairymen, Inc. discharge was determined to be 8.4 cfs during summer and 4.2 cfs during winter. This is based on data contained in PCA Ex. #2, a report by the Metropolitan Waste Control Commission (MWCC) entitled "Assimilative Capacity Estimates of the Vermillion River for Lakeville-Farmington Treatment Plant", October, 1974.

b. Using a report entitled "Report on Investigation of the Water Quality of the Vermillion River, Scott and Dakota Counties, August 28, 29, and September 2, 1979", PCA Ex. #3, by the MPCA and the above listed report by the MWCC, the following values were selected as representative of the occurrence frequency of the least favorable conditions in relation to the seven-day, once-in-ten-year time interval:

Parameter	Summer	Winter
Temperature, °F.	80°	32°
Ammonia Nitrogen, mg/l	.1	.1
5-day BOD, mg/l	3.0	1.5
Dissolved Oxygen, mg/l	6.0	11.6
Chlorophyll a, mg/l	20	10

For the selection of these values, the obvious improvement trend in the quality of the river was taken into consideration.

c. The temperature used during summer low flow, as initial condition for all reaches, was 80°F.; during winter it was taken as 32°F.

d. The following data for light intensity which was established by the University of Minnesota was inserted into the mathematical model:

Light Intensity Data of Agricultural Engineering

University of Minnesota

Average of Last Eleven Years

July:	545 Langleys/day)		
August:	460 Langleys/day)	Average:	445.3
September:	331 Langleys/day)		
December:	109 Langleys/day)		
January	155 Langleys/day)	Average:	170.3
February:	247 Langleys/day)		

e. The value used for the deoxygenation coefficient K_1, was 1.84. This value was developed by the Metropolitan Waste Control Commission in Ex. #2. The values for oxygenation rate of ammonia nitrogen and oxygenation rate of nitrate nitrogen were also based on this report. All other input values and coefficients used were similar to those developed by Water Resources Engineering and used in their applications of the mathematical model.

7. Computer runs were made to verify the accuracy of the model during a period of known water quality and then to determine allowable effluent limitations for both the summer and winter once-in-ten-year, 7-day low flow conditions using the projected effluent flows. Available data from PCA exhibits #2 & #3, were utilized to establish background water quality and low flow information.

8. The computer model was run with existing point source waste load inputs including inputs and a hypothetical waste load input from the proposed sewage treatment plant at secondary treatment levels as defined by Minn. Reg. WPC 14 (c)(6). The result was violation of in-stream water quality standards.

9. The point source waste load inputs were then lowered until the in-stream water quality standards were no longer violated. This reduction in waste load inputs was accomplished on an equal concentrations basis in accordance with Minn. Reg. WPC 14 (c)(10).

10. The point source waste load inputs which are necessary to meet water quality standards are:

Biochemical Oxygen Demand$_5$ (BOD_5)	10 mg/l
Dissolved Oxygen (DO)	4 mg/l
Ammonia (N)	1 mg/l

11. A total suspended solids limitation of 10 mg/l was also imposed because of the technical capability of both the industry and the proposed sewage treatment plant to meet the limitation. As outlined in PCA Ex. #4 the proposed sewage treatment plant will be able to produce an effluent containing 10 mg/l or less of Total Suspended Solids.

12. Proposed regulation WPC 41 was established based on this study and contains effluent limitations as found in the study. The regulation also contains a definition for monitoring compliance and a variance provision pursuant to Minn. Stat. 116.07, 1974.

13. Proposed Regulation WPC 41 as presented at the public hearing has been modified as a result of the hearing and subsequent evaluations as outlined below:

    a. Simplification was made in the terminology to enable easier interpretations.

    b. Effluent limitations for fecal coliform, pathogenic organisms, oil, turbidity, pH, and unspecified toxic or corrosive substances were deleted since they were not utilized in the computer model of the Vermillion River and already appeared in WPC 14.

    c. A provision for variability of operation between the specified limits in WPC 41 and limits in section c (6) of WPC 14 was provided. This provision was inserted since it already existed in WPC 14.

    d. To enable determination of compliance, the effluent limitations were defined as an arithmetic mean value in a period of 30 consecutive days. Compliance was also defined to be based on effluent samples which are representative of the discharge.

Dated this 25th day of November, 1975

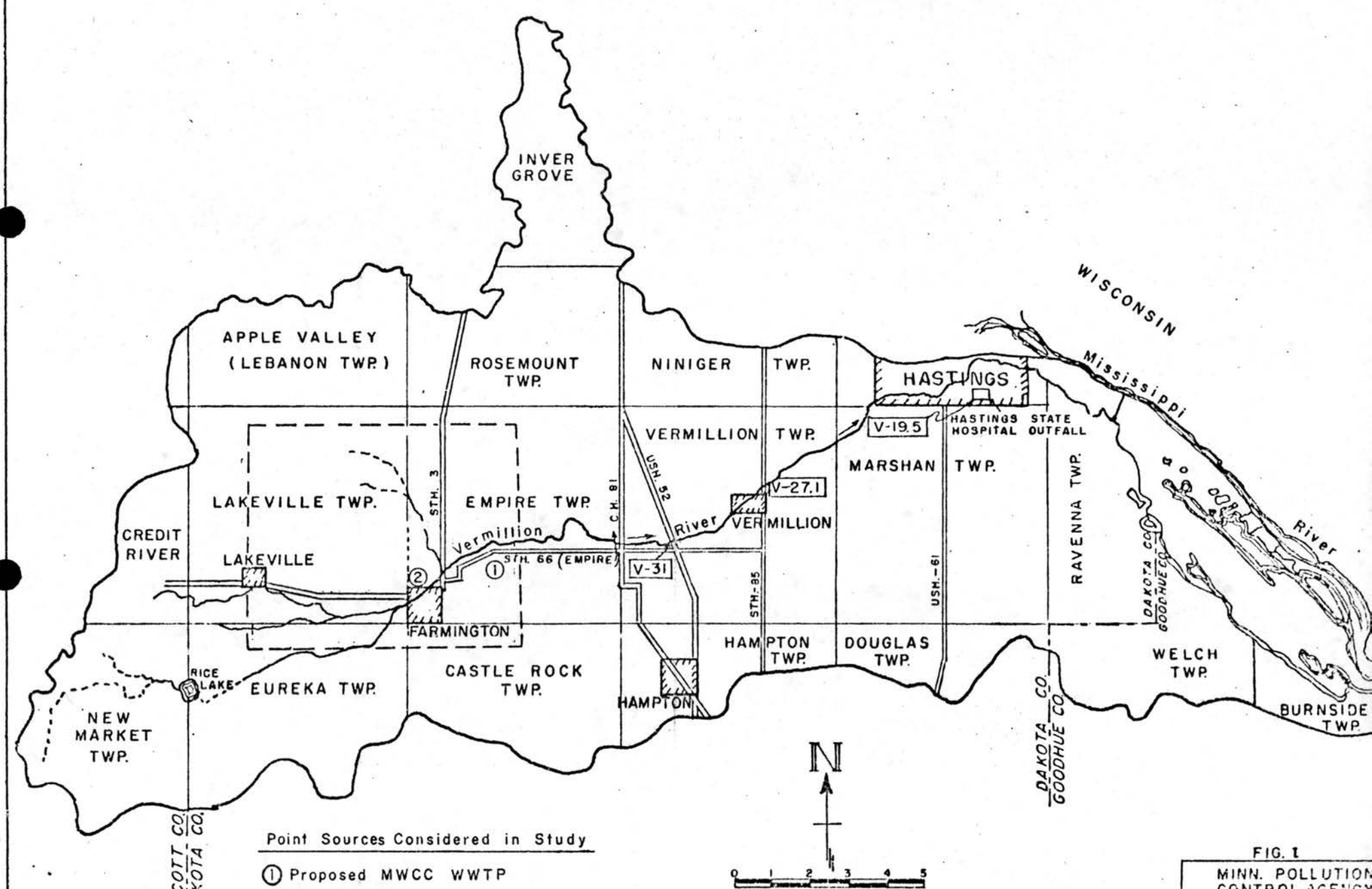
State of Minnesota

MINNESOTA POLLUTION CONTROL AGENCY

Marion Watson
Chairwoman

Joseph Grinnell
Vice Chairman

SKETCH MAP OF VERMILLION RIVER WATERSHED



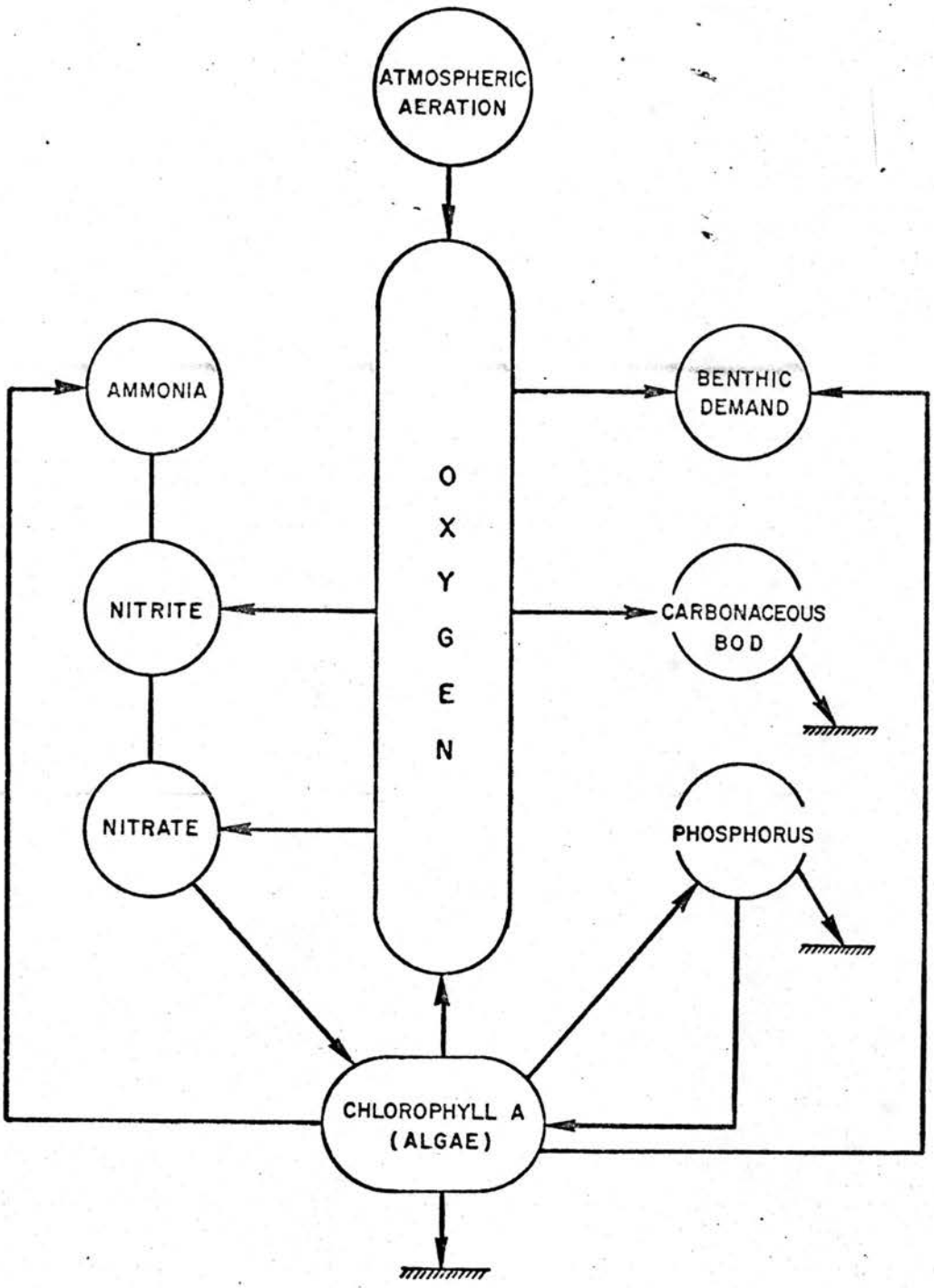
Point Sources Considered in Study

① Proposed MWCC WWTP

② Mid American Dairymen Discharge

FIG. 1

MINN. POLLUTION CONTROL AGENCY
DIV. OF WATER QUAL
FEB., 1975



GENERAL MODEL STRUCTURE
FOR QUAL - II

Figure 2

MINN. POLLUTION CONTROL AGENCY
DIV. OF WATER QUALITY
DEC., 1974

CERTIFICATE OF BOARDS

ADOPTION OF RULES RESOLUTION

I, PETER L. GOVE, do hereby certify that I am Executive Director of the Minnesota Pollution Control Agency, an agency duly authorized under the laws of the State of Minnesota, and that the following is a true, complete, and correct copy of a resolution adopted at a meeting of the Board of the Minnesota Pollution Control Agency, duly and properly called and held on the 2nd day of September, 1975, that a quorum was present at said meeting; (that a majority of those present voted for the resolution); that said resolution is set forth in the minutes of said meeting and has not been rescinded or modified.

> "BE IT RESOLVED, that the adoption of regulation WPC 41 relating to the establishment of effluent standards for disposal systems discharging to the Vermillion River, Dakota County, is hereby approved and adopted pursuant to authority vested in the Agency by Minnesota Statutes, Chapters 115 and 116 and that Marion Watson, Chairwoman of the Minnesota Pollution Control Agency Board, be and hereby is authorized to sign the Statement of Need, Findings of Fact and Order adopting the rules which relate to these regulations."

IN WITNESS WHEREOF, I have hereunto subscribed my name this 12 day of JAN, 1976

Peter L. Gove, Executive Director
Minnesota Pollution Control Agency

Marion Watson
Chairwoman of the Board
Minnesota Pollution Control Agency

STATE OF MINNESOTA

BEFORE THE

MINNESOTA POLLUTION CONTROL AGENCY

In the Matter of the Adoption of Effluent Standards for Disposal Systems Discharging to the Vermillion River, WPC-41

ORDER ADOPTING THE RULES

The subject matter of the proposed regulation was first presented at a hearing before the Minnesota Pollution Control Agency commencing at 9:00 a.m. on Wednesday, March 26, 1975, in the Board Room of the Offices of the Minnesota Pollution Control Agency, in the City of Roseville, Minnesota, 1935 West County Road B-2. Proper notice for hearing, as required by Minn. Stat. Section 15.0412 (1971), was served upon all persons, associations and other interested groups registered with the Secretary of State for that purpose.

After affording interested persons an opportunity to present written and oral data, statements and arguments, having heard all of the testimony, having considered all of the evidence adduced and upon the records, files and proceedings herein, and applicable statutory standards or criteria, and having confirmed the need for the above captioned regulation.

NOW, THEREFORE, IT IS ORDERED that this regulation identified as Minnesota Pollution Control Agency Regulation WPC 41 is hereby adopted this 2nd day of September, 1975, pursuant to authority vested in me as Chairwoman of the Board of the Minnesota Pollution Control Agency.

Dated this 25th day of November 1975

MINNESOTA POLLUTION CONTROL AGENCY

Marion E Watson

Marion Watson
Chairwoman

STATEMENT OF COMPLIANCE WITH
RULEMAKING PROCEDURES

I, William P. Donohue, Special Assistant Attorney General, do hereby declare that I have examined the proposed regulation WPC 41 and all related documents and that, based on them and my personal familiarity with the applicable procedures, the Manual of Rulemaking Procedures has been followed.

William P. Donohue
Special Assistant
Attorney General

Dated: January 28, 1976.