RECEIVED BEFORE THE ILLINOIS POLLUTION CONTROL BOARD CLERK'S OFFICE

BOARD OF TRUSTEES OF SOUTHERN ILLINOIS UNIVERSITY GOVERNING SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE)))	NOV 0 3 2004 STATE OF ILLINOIS Pollution Control Board
Petitioner,)	
v. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.)))))	PCB 02-105 (NPDES Permit Appeal)
NOTICE OF	FILING	
	i	

Dorothy Gunn, Clerk Illinois Pollution Control Board James R. Thompson Center Suite 11-500 100 West Randolph Street Chicago, IL 60601

Carol Sudman Hearing Officer Illinois Pollution Control Board 1021 N. Grand Ave. East P.O. Box 19274 Springfield, IL 62794-9274 Joel A. Benoit MOHAN, ALEWELT, PRILLAMAN & ADAMI First of America Center 1 N. Old Capitol Plaza, Ste. 325 Springfield, IL 62701

Kim L. Kirn Southern Illinois University Edwardsville Office of the General Counsel Rendleman Hall, Room 3311 Edwardsville, IL 62026-1019

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an original and four (4) copies of the <u>AGENCY RESPONSE TO SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE'S REQUEST TO PRODUCE DOCUMENT, REQUEST TO ADMIT, AND INTEROGATORIES of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.</u>

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Sanjay K. Sofat, Assistant Counsel Division of Legal Counsel

Dated: November 1, 2004

Illinois Environmental Protection Agency

1021 North Grand Avenue East Springfield, Illinois 62794-9276

(217) 782-5544

THIS FILING PRINTED ON RECYCLED PAPER

RECEIVED CLERK'S OFFICE

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

NOV 0 3 2004

BOARD OF TRUSTEES OF SOUTHERN ILLINOIS UNIVERSITY GOVERNING SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE	STATE OF ILLINOIS Pollution Control Board)
Petitioner,)
v.)) PCB 02-105) (NPDES Permit Appeal)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,) (147 <i>228</i> 1 644444 144544)
Respondent.)

ILLINOIS EPA'S RESPONSE TO PRAIRIE RIVERS NETWORK'S INTERROGATORIES AND DOCUMENT REQUEST

NOW COMES the Respondent, the Illinois Environmental Protection Agency ("Illinois EPA" or "Agency"), by one of its attorneys, Sanjay K. Sofat, Assistant Counsel and Special Assistant Attorney General, and pursuant to the Illinois Pollution Control Board ("Illinois PCB" or "Board") Regulations at 35 Ill. Adm. Code 101.614, 101.616, 105.202(a)-(b), and 105.204(b), the Illinois Code of Civil Procedures, the Illinois Supreme Court Rules, and the Hearing Officer's Order dated August 12, 2004, hereby responds to the Board of Trustees of Southern Illinois University Governing Southern Illinois University at Edwardsville's ("Petitioner" or "SIUE") request to produce documents, request to admit, and interrogatories with regard to this proceeding and the issuance of NPDES permit IL0075311.

GENERAL OBJECTIONS

The Illinois EPA objects to each of the Petitioner's request to produce documents, request to admit, interrogatories, definitions, and instructions to the extent that,

individually or cumulatively, they purport to impose upon the Illinois EPA duties or obligations which exceed or are different from those imposed upon the Illinois EPA by the Illinois Administrative Code and the Illinois Code of Civil Procedure.

The Illinois EPA further objects to each of the Petitioner's request to produce documents, request to admit, interrogatories, definitions, and instructions to the extent that they call for attorney-client communications between or among Illinois EPA's counsel, attorney work product, or any other privileged matters.

THE AGENCY'S RESPONSE TO SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE'S REQUEST TO PRODUCE ARE IN BOLD LETTERS:

The answers to the request to produce are made by Blaine Kinsley, Unit Manager, Bureau of Water, Illinois EPA, in accordance with his Verification below. The objections to the request to produce are made by the Illinois EPA's attorney, Sanjay K. Sofat.

1. All documents submitted by SIUE to IEPA concerning or relating to SIUE obtaining a NPDES permit for the cooling plant.

See the Agency Record. Blaine Kinsley.

Objection: Section 40(d) of the Illinois Environmental Protection Act ("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

2. All documents submitted by IEPA to SIUE concerning or relating to SIUE obtaining a NPDES permit for the cooling plant.

See the Agency Record. Blaine Kinsley.

Objection: Section 40(d) of the Illinois Environmental Protection Act

("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

3. All documents in IEPA's possession or control concerning or relating to SIUE obtaining a NPDES permit, including, but not limited to, drafts of documents, notes of IEPA employees, and internal communications.

See the Agency Record. Blaine Kinsley.

Objection: Section 40(d) of the Illinois Environmental Protection Act ("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

4. All documents the IEPA will attempt to introduce into the record at any time.

See the Agency Record. Blaine Kinsley.

Objection: Section 40(d) of the Illinois Environmental Protection Act ("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

5. Legible copies of all IEPA reviewer handwritten notes included in the "record" filed by IEPA.

See the Agency Record. If Petitioner still has problems reading the Illinois EPA engineer's notes, the Agency is willing to make the original notes available for Petitioner's review. Blaine Kinsley.

6. All reports of any Supreme Court Rule 213(g) witnesses.

Objection: Not applicable. Section 40(d) of the Illinois Environmental Protection Act ("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

7. All documents the IEPA relied upon in making its final decision

See the Agency Record. Blaine Kinsley.

Objection: Section 40(d) of the Illinois Environmental Protection Act ("Act") requires the Board to base its decision "exclusively on the record before the Agency including the record of the hearing." 415 ILCS 5/40(f) (2002).

8. All documents identified in IEPA's answers to interrogatories.

Not applicable.

THE AGENCY'S RESPONSE TO SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE'S REQUEST TO ADMIT ARE IN BOLD LETTERS:

The name of the Illinois EPA employee making response to the question is provided at the end of the response. A Verification from each of the respondent is enclosed.

1. SIUE's lake is not used as a source of drinking water.

Admit. Therese Holland.

2. SIUE's lake is located on property owned by SIUE

Admit. It appears from the information available to the IEPA that the lake in question is located on SIUE property. Blaine Kinsley.

3. SIUE's lake was constructed for the purpose of providing a source of water for SIUE's cooling plant.

Deny. The Illinois EPA has no direct knowledge that SIUE constructed the lake to provide a source of water for SIUE's cooling plant. Blaine Kinsley.

4. Section 302.211(e) has not been previously applied via a NPDES permit to a discharge of heated water into a lake, other than artificial lakes.

Deny. The Illinois EPA has indeed applied 302.211(e) to heated discharges into a lake via NPDES permits. Blaine Kinsley.

5. The potential, detrimental impact to a water body which may be caused by discharging water whose temperature is greater than set forth in Section 302.211(e) is affected by both the volume of heated water discharged and its temperature.

It is true that the volume and temperature of the discharge is needed information in determining potential detrimental impact on a water body.

The nature, size, and temperature of the receiving water body are important factors in determining the potential detrimental impact of a discharge on a water body. Bob Mosher.

6. Where the receiving body of water for a discharge of water exceeding the temperatures set for in Section 302.211(e) for any month in a river, it is not possible to determine whether a violation of Section 302.211(e) is occurring without monitoring water temperature at representative locations in the main river.

Deny. It is not true that river temperature must be known when assessing 302.211(e) attainment because if no mixing zone is granted, river temperatures at all points must meet the water quality standard. Bob Mosher.

7. Special condition 2 of the NPDES permit states that the thermal limitations are to be met "at the edge of the mixing zone." Admit or deny that testing at a point representative of the discharge, but prior to entry into SIUE's lake, will provide no information concerning whether thermal limitations are met at the edge of the mixing zone.

Deny. No mixing zone was granted to the SIUE discharge, end-of-pipe thermal limits were established in the permit. Testing at a point representative of the discharge will therefore supply all needed thermal data. Bob Mosher.

8. Testing a point representative of the discharge, but prior to entry into SIUE's lake, will provide no information concerning SIUE's lake's temperature.

Deny. Testing at a point representative of the discharge will indicate whether the SIUE Lake's temperature will or will not exceed water quality standards and thus the permit limit. Again, this is so because there is no mixing zone granted. Bob Mosher.

THE AGENCY'S RESPONSE TO SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE'S INTERROGATORIES ARE IN BOLD LETTERS:

The name of the Illinois EPA employee making response to the interrogatory is provided at the end of the response. A Verification from each of the respondent is enclosed. The Illinois EPA's attorney, Sanjay K. Sofat, makes the objections to the interrogatories.

1. Identify every IEPA employee who had any involvement with SIUE's NPDES permit application or the IEPA's decision to issue the NPDES permit at issue, and as to each person identified, set forth their involvement in the permitting process.

Bob Mosher: Water quality standard related issues.

Fred Rosenblum: Permit Engineer

2. Identify all Illinois facilities (by name and address) with NPDES permits regulating the discharge of heated water, other than those facilities discharging heated water into streams, rivers, Lake Michigan, or artificial cooling lakes. As to each facility identified, set forth where the facilities NPDES permit requires that water temperature be monitored to determine compliance with Sections 302.221 (d) and (e).

The information requested requires the Agency to review a list of over 300 dischargers to determine which ones fit the criteria listed above. Once the facilities are identified a review of each and every permit file must be performed to determine how the dischargers are to comply with 302.211 (d) and (e). Blaine Kinsley.

Objection: The request is overly broad and thus, unduly burdensome. In the alternative, the Illinois EPA is willing to provide access to the information on Illinois facilities meeting the criteria described above for the Petitioner's review.

3. To the IEPA's knowledge, have Sections 302.211 (d) and (e)'s temperature restrictions been previously applied to facilities discharging heated water into lakes, other than artificial cooling lakes? If so, identify each facility and the lake into which it discharges.

Yes. See attached list. Blaine Kinsley.

4. Identify all Illinois facilities with NPDES permits regulating the discharge of heated water into rivers and streams. As to each facility identified, set forth where the facility's NPDES permit requires that water temperature be monitored to determine compliance with Sections 302.211 (d) and (e).

The information requested requires the Agency to review a list of over 300 dischargers to determine which ones fit the criteria listed above. Once the facilities are identified a review of each and every permit file must be performed to determine how the dischargers are to comply with 302.211 (d) and (e). Blaine Kinsley.

Objection: The request is overly broad and thus, unduly burdensome. In the alternative, the Illinois EPA is willing to provide access to the

information on Illinois facilities meeting the criteria described above for the Petitioner's review.

5. Does the IEPA contend that 35 Ill. Adm. Code 302.211 (e) applies to lakes? If so, set forth where (including depth at location(s) identified) in the lake the IEPA contends water temperature is to be monitored, the basis for the IEPA's contention, and identify all guidelines, regulations, manuals, or other authoritative sources which support the IEPA's contention.

Yes, 302.211(e) applies to lakes. All waters of lakes are subject to this standard unless a mixing zone has been granted. If a mixing zone were granted, monitoring conditions would be specified in the permit pertaining to the location, depth, frequency and number of samples to show compliance with the permit limits. The Illinois Environmental Protection Act and the Illinois Pollution Control Board regulations give the Agency authority to establish monitoring requirements in NPDES permits. Bob Mosher.

6. The IEPA's January 2, 2002, letter accompanying the NPDES permit at issue states, in part: "Also, for clarification purposes, temperature monitoring will be required at a point representative of the discharge(s) but prior to entry into Tower Lake." Identify all guidelines, regulations, manuals, or other authoritative sources which support this directive.

The Illinois Environmental Protection Act and the Illinois Pollution Control Board regulations give the Agency authority to establish monitoring requirements in NPDES permits. Bob Mosher.

7. Regarding "Special Condition 2" of the NPDES permit, identify which provision of Section 302.211 defines the mixing zone.

No Mixing zone is granted in the permit. Monitoring for compliance with the temperature limit is to be accomplished at a location in the effluent before discharge to the lake. Bob Mosher.

8. Describe the method(s) the IEPA uses or approves of for testing the temperature of lakes. As to each method described, identify all guidelines, regulations, manuals, or other authoritative sources which support the IEPA's use or approval of the method.

The method for measuring temperature in lakes depends on the purpose for which it is measured. See Attachment A for the Illinois EPA methodology for performing temperature profiles. Also see Attachment B for USGS's field methods. The Illinois Environmental Protection Act and the Illinois Pollution Control Board regulations give the Agency authority to establish monitoring requirements in NPDES permits. Therese Holland.

9. Identify by name and address all the facilities required by their NPDES permit to comply with 35 Ill. Adm. Code 302.211 (e) at a point prior to the heated water being discharged into the receiving water body.

The information requested requires the Agency to review a list of over 300 dischargers to determine which ones fit the criteria listed above. Once the facilities are identified a review of each and every permit file must be performed to determine how the dischargers are to comply with 302.211 (e) at the end of pipe. Blaine Kinsley.

Objection: The request is overly broad and thus, unduly burdensome. In the alternative, the Illinois EPA is willing to provide access to the information on Illinois facilities meeting the criteria described above for the Petitioner's review.

10. Identify by name and address all facilities required by their NPDES permit to comply with 35 Ill. Adm. Code 302.211 (e) at the edge of a mixing zone located in the receiving body of water.

The information requested requires the Agency to review a list of over 300 dischargers to determine which ones fit the criteria listed above. Once the facilities are identified a review of each and every permit file must be performed to determine how the dischargers are to comply with 302.211 (e) at the edge of a mixing zone. Blaine Kinsley.

Objection: The request is overly broad and thus, unduly burdensome. In the alternative, the Illinois EPA is willing to provide access to the information on Illinois facilities meeting the criteria described above for the Petitioner's review.

- 11. For each "lay witness", as that term is defined in Supreme Court Rule 213(f)(1), identify the lay witness and identify the subjects upon which the lay witness will testify at the hearing.
 - 1. Bob Mosher- the water quality standard related issues.
 - 2. Blaine Kinsley- the permit conditions related issues.
 - 3. Fred Rosenblum- the NPDES permit in question
 - 4. Teri Holland- Aquatic life in lakes; methods of measuring temperatures in lakes
- 12. For each "independent expert witness" as that term is defined in Supreme Court Rule 213(f)(2), identify the independent express witness and identify the subjects on which the independent witness will testify and the opinions the IEPA expects to elicit from the independent expert witness at the hearing.

None

- 13. For each "controlled expert witness" as that terms is defined in Supreme Court Rule 213(f)(3), identify the controlled expert witness, his or her employer, and identify: (I) the subject matter on which the witness will testify; (ii) the conclusions and opinions of the witness and the bases therefore; (iii) the qualifications of the witness; and (iv) any reports prepared by the witness about this permit appeal.
 - 1. Bob Mosher-Illinois EPA:
 - (i) the water quality standard related issues;
 - (ii) water quality standards apply to waters of the State including lakes, location of the monitoring point to show compliance with the water quality standards is the end of pipe, where no mixing is allowed;
 - (iii) Maters Degree in Zoology
 - (iv) Not applicable
 - 2. Blaine Kinsley- Illinois EPA:
 - (i) the NPDES permit conditions related issues;
 - (ii) water quality standards apply to waters of the State including lakes, location of the monitoring point to show compliance with the water quality standards is the end of pipe, where no mixing is allowed;
 - (iii) Engg
 - (iv) Not applicable
 - 3. Teri Holland-Illinois EPA:
 - (i) the effects of temperature on aquatic system in lakes related issues;
 - (ii) the method for measuring temperature in lakes depends on the purpose for which it is measured.;
 - (iii) Masters Of Art Degree in Environmental Studies;
 - (iv) Not applicable
- 14. If the body of water to which heated water is discharged is a lake (other than Lake Michigan), set forth the monitoring procedure (including the locations and depth temperature must be monitored) to determine compliance with Section 302.211(d). Identify all guidelines, regulations, manuals, or other authoritative sources supporting your answer.

Temperature profiles would be collected at a location in the lake unaffected by the thermal discharge. The profiles would include depth and season. Some lakes receiving thermal effluents may not contain areas of natural background temperatures. Bob Mosher.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Ву:

Sanjay K. Sofat

Special Assistant Attorney General

Date: November 1, 2004

1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 (217) 782-5544

STATE OF ILLINOIS)	
•)	SS
COUNTY OF SANGAMON)	

VERIFICATION

Blaine Kinsley, being duly sworn, states that he is the Unit Manager of Water Pollution Control Program, Illinois EPA; that he is duly authorized to provide the foregoing answers to request to produce documents, request to admit, and interrogatories on behalf of Illinois Environmental Protection Agency; and that he makes said answers based upon his personal knowledge, his review of documents that he reasonably believes to be accurate, and information provided to him by other section units that he reasonably believes to be accurate.

Blaine Kinsley

Subscribed and sworn to before me, a notary public in and for said County and State, this _____ day of November 1, 2004.

OFFICIAL SEAL
LINDA J LAWS
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES: 12/28/05

Notary Public

My Commission Expires:

STATE OF ILLINOIS)	
)	SS
COUNTY OF SANGAMON)	

VERIFICATION

Bob Mosher, being duly sworn, states that he is the Manager of the Water Quality Standards Section within Water Pollution Control Program, Illinois EPA; that he is duly authorized to provide the foregoing answers to request to produce documents, request to admit, and interrogatories on behalf of Illinois Environmental Protection Agency; and that he makes said answers based upon his personal knowledge, his review of documents that he reasonably believes to be accurate, and information provided to him by other section units that he reasonably believes to be accurate.

Bob Mosher

Subscribed and sworn to before me, a notary public in and for said County and State, this day of November 1, 2004.

Dout Mala

STATE OF ILLINOIS)	
)	SS
COUNTY OF SANGAMON)	

VERIFICATION

Teri Holland, being duly sworn, states that she is the Environmental Specialist of Water Pollution Control Program, Illinois EPA; that she is duly authorized to provide the foregoing answers to request to produce documents, request to admit, and interrogatories on behalf of Illinois Environmental Protection Agency; and that she makes said answers based upon his personal knowledge, his review of documents that she reasonably believes to be accurate, and information provided to her by other section units that she reasonably believes to be accurate.

Therese Holland

Subscribed and sworn to before me, a notary public in and for said County and State, this _____ day of November 1, 2004.

OFFICIAL SEAL
LINDA J LAWS
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES: 12/28/05

Linka Jawa
Notary Public

My Commission Expires: 12/38/05

STATE OF ILLINOIS	·)	
)	SS
COUNTY OF SANGAMON)	

PROOF OF SERVICE

I, the undersigned, on oath state that I have served the attached <u>AGENCY</u>
<u>RESPONSE TO SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE'S</u>
<u>REQUEST TO PRODUCE DOCUMENT, REQUEST TO ADMIT, AND</u>
<u>INTEROGATORIES</u> upon the persons to whom it is directed, by placing a copy in an envelope addressed to:

Dorothy Gunn, Clerk Illinois Pollution Control Board James R. Thompson Center Suite 11-500 100 West Randolph Street Chicago, IL 60601

Carol Sudman Hearing Officer Illinois Pollution Control Board 1021 N. Grand Ave. East P.O. Box 19274 Springfield, IL 62794-9274 Joel A. Benoit MOHAN, ALEWELT, PRILLAMAN & ADAMI First of America Center 1 N. Old Capitol Plaza, Ste. 325 Springfield, IL 62701

Kim L. Kirn Southern Illinois University Edwardsville Office of the General Counsel Rendleman Hall, Room 3311 Edwardsville, IL 62026-1019

and mailing it from Springfield, Illinois on November 1, 2004, with sufficient postage affixed as indicated above.

Kem Balt

SUBSCRIBED AND SWORN TO BEFORE ME

this day of November 1, 2004.

Notary Public

BRENDA BOEHNER

THIS FILING PRINTED ON RECYCLE DO JARR PUBLIC,

MY COMMISSION EXPIRES 11-14-2005

LIST

ACTIVE INCUSTALLS WITH NODES TEMPERATURE REQUIREMENTS PRECLUTY NAME NODES RECEIVED NOTES PIPE FIFE DESCRIPTION PARAMETER MIGG LM AV(Q) LM MX(Q) LM MX(Q) LM MX(C) LM AV(C) LM MX(C) REQ MANT ABBOTT LABORATORIES OLIO OVERFLO DURNS HEAVY PRECIPTAN TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYY ABBOTT LABORATORIES—AES OFT RK LL0074128 NORMED RISE OF A WETLAND OLIO CONTING WAR, SEVENESS OSMOST EMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ABBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ABBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ASBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RIT, SM TEMPERATURE, MATER DEG. CENT 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RITH, SM TEMPERATURE, MATER DEG. CENT 1 REPORT YYYYYYYY ARBOTT LABS-N CHICAGO RITH, SM TEMPERATURE, MATER DEG. CENT 1 REPORT YYYYYYYY ARBOTT LOCALING WARER TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARBOTT LOCALING WARER TEMPERATURE, MATER DEG. FAME 1 REPORT YYYYYYYY ARZO NOBEL SURFACE CIENNISTRY LL0026069 MAX SALE CREEK 0010 NORCONTACT CICLING WARER TEMPERATURE, WATER DEG. FAME 1 REPORT YYYYYYYY ARICO HOUSETIAL LABS INC. LL0036070 TR3 TO REPORT THE TEMPERATURE, WATER DEG. FAME 1 REPORT YYYYYYYY AREEN COMMINISTED CICLING WATER TEMPERATURE, WATER DEG. FAME 1 REPORT YYYYYYYY AREEN COMMINISTED CICLING WATER TEMPERATURE, WATER DEG. FAME 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	10/14/04	ACTIVE	NICSTRIALS	WITH NPDE	S TEMPERATUR	E REQUIREM	ESTS .		PAGE	: -
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ABBOTT LABORATORIES-AES CIT PK LL0074128 DNOMED TRES OF A WETLAND 0010 COOLING TWA, NCCW, REVERSE OSMOS TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0020 NON-CHICAD LL0001801 LAB NCHICAN 0010 NONCONTACT COCLING WIR, SW TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0020 NON-CONTACT COCLING WIR, SW TEMPERATURE, RATER DEG. CENT 0 REPORT YYYYYYY 0040 NON-CONTACT COCLING WARER TEMPERATURE, RATER DEG. CENT 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WARER TEMPERATURE, RATER DEG. CENT 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WARER TEMPERATURE, RATER DEG. CENT 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. CENT 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. CENT 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT REPORT YYYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT REPORT YYYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT REPORT YYYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT REPORT REPORT YYYYYYYY 0040 NON-CONTACT COCLING WATER TEMPERATURE, RATER DEG. FAHR 1 REPORT YYYYYYNNO NON-CONTACT COCLING WAT SUPPERATURE, RATE										
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ASBOTT LABS-N CHICAGO LINGOISSI LAK MICHIGAN 0010 NONCONTACT COLLING WTR, SW TEMPERATURE, MATER DEG. FAHR 1 ACME PACKAGING COS-RIVERDALE LL0076295 LINTIC CAIMET RIVER 10160 NON-CONTACT COLLING WARES TEMPERATURE, MATER DEG. CENT 0 10160 NON-CONTACT COLLING WARES TEMPERATURE, MATER DEG. CENT 0 10160 NON-CONTACT COLLING WARER TEMPERATURE, MATER DEG. CENT 1 AGRIUM U.S. INCMENRY LL002518 LLINGUTS RIVER 001A NON-CONTACT COLLING WATER TEMPERATURE, WATER DEG. CENT 1 AGRIUM U.S. INCMENRY LL002518 LLINGUTS RIVER 001A NON-CONTACT COLLING WATER TEMPERATURE, WATER DEG. CENT 1 AREO INDUSTRIAL GASES LLG250032 SOTH SEANCH CHICAGO RIVER 0010 NONCONTACT COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AREO NOBEL SURFACE CHEMISTRY LL0026069 AIX SALE CREEK 0020 STRM WTR RINGIT, ELONDWARS OFTHE TEMPERATURE, WATER DEG. FAHR 1 ALLIED LOCKE INDUSTRIS, INC. LL0063070 TRIS TO GREEN RIVER 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMERIN - COPPEEN EXERS STATION LL0040108 (COTTEN LAW) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMERIN - COPPEEN EXERS STATION LL0040108 (COTTEN LAW) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMERIN - COPPEEN EXERS STATION LL0040108 (COTTEN LAW) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMERIN - COPPEEN EXERS STATION LL0040108 (COTTEN LAW) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT YYYYYYY 0200 CONDENSER COLLING WATER SUPPLIFIT TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WAT SUPPLITE TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WAT SUPPLITE TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WAT SUPPLITE TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WAT SUPPLITE TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WAT SUPPLITE TEMPERATURE, WATER DEG. FAHR 1 BEFORE REPORT REPORT NUNNNYYYY 0210 CONDENSER COLLING WA										
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AGRIUM U.S. INCHENRY IL0002518 ILINOIS RIVER 001A NON-CONTACT COCLING WATER; SW TEMPERATURE, WATER DEG. FAHR 1 AIRCO INDUSTRIAL EASES ILG250032 SOUTH ERANCH CHICAGO RIVER 0010 NONCONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 AKZO NOBEL SURFACE CHEMISTRY IL0026069 AIX SABIE CREEK 0020 STRM WTR RUNCIF, BLOMDWINS OFTHE TEMPERATURE, WATER DEG. FAHR 1 ALLIED LOCKE INDUSTRIES, INC. IL0063070 TRIS TO GREEN RIVER 0010 COMBINED NOTW AND SW TEMPERATURE, WATER DEG. FAHR 1 AMEREN - COFFEEN FOWER STATION IL0006108 (CIFIEN LAWS) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMERICA - COFFEEN FOWER STATION IL0000108 (CIFIEN LAWS) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 0200 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 0200 CONDENSER COLLING WATER OVERFILOW TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT OVERFILOW TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIAT TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 CONDENSER COLLING WAT SUPPLIATE, WATER DEG. FAHR 1 0210 C	ACME PACKAGING CORP-RIVERDALE	IL0076295 LITTLE	CALCMET RIV	VER						
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ORDER SUMPRE COLING WATER; SW TEMPERATURE, WATER DEG. FAHR 1 AIRCO INDUSTRIAL BASES ILG25002 SOUTH FRANCH CHICAGO RIVER 0010 NONCONTACT COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AKZO NOBEL SUMPRACE CHEMISTRY IL0026069 AIN SABIZ CREEK 0020 STRM WITR RENOIT, BLOWDHAMS OFTHR TEMPERATURE, WATER DEG. FAHR 1 ALLIED LOCKE INDUSTRIES, INC. IL0063070 TAIS IN GREEN RIVER 00100 COMBINED NICH AND SW TEMPERATURE, WATER DEG. FAHR 1 AMBREN - COPFEEN FOWER STATION IL0000108 (CITEIN LAWS) 0010 COMBENSED COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 AMBREN - COPFEEN FOWER STATION TREMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATER TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATER OVERFLOW TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATER OVERFLOW TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WATE SUPPLIATE TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WAT SUPPLITED TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WAT SUPPLITED TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WAT SUPPLITED TEMPERATURE, WATER DEG. FAHR 1 COUNTINESSE COLLING WAT SUPPLITED TEMPERATURE, WATER DEG. FAHR 1 COUNT CONTRIBUTED TO THE COUNTY OF TH				EG. CENT	1		*****	*****	REPORT	XXXXXXX.
AIRCO INDUSTRIAL EASES ILG250032 SOUTH ERANCH CHICAGO RIVER 0010 NONCONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1	AGRIUM U.S. INCHENRY 001A NON-CONTACT COCLING WATE	IL0002518 ILLING R: SW TEMPERATUR	IS RIVER E, WAIER DE	EG. FAHR	1		*****	*****	REPORT	YYYYYYY
AKZO NOBEL SURFACE CHEMISTRY IL0026059 ATM SABIZ CREEK 0020 STRM WTR RENOFF, BLOWDWAGS OFTER TEMPERATURE, WATER DEG. FAHR 1	AIRCO INDUSTRIAL GASES	ILG250032 SCUTH	BRANCH CHICA	AGO RIVER				•		
0020 STRM WTR RENOFF, BLOWDWAS OFTER TEMPERATURE, WATER DEG. PAHR 1 ALLIED LOCKE INDESTRIES, INC. IL0063070 TAIS TO GREEN RIVER 0010 COMBINED NCTW AND SW TEMPERATURE, WATER DEG. PAHR 1 MRREN CPFEEN FOWER STATION IL0000108 (CITTEEN LAKE) 0010 CONDENSER COLLING WATER TEMPERATURE, WATER DEG. PAHR 1 REPORT YYYYYYY REPORT YYYYYYY REPORT MANNANYY REPORT REPORT NEWNANNYY REPORT REPORT NANNANYY REPORT YYYYYNNANANANAN NANNAN NANNAN NANNAN NANNAN NANNAN	0010 NONCONTACT COCLING WATER	TEMPERATURE	, WATER DE	EG. FAHR	1		*****	*****	REPORT	XXXXXXX.
MEREN - COFFEEN FORE STATION IL0000108 (CFTEIN LAW) MODIO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER OVERFLOW TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT SUPPLITE TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WATER TEMPERATURE, WATER DEG. PAHR 1 ORDO CONDENSER COLING WAT				EG. FAHR	1		*****	*****	REPORT	YYYYYYY
AMEREN - COFFEEN FOWER STATION IL0000108 CUFFEN LAKE 0010 CONDENSER COLING WATER TEMPERATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0010 CONDENSER COLING WATER TEMPERATE, WATER DEG. FAHR 1 REPORT REPORT NNNNNYY 0200 CONDENSER COLING WAT OVERFLOW TEMPERATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0210 CONDENSER COLING WAT OVERFLOW TEMPERATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0210 CONDENSER COLING WAT SUPPLIATE HAPPERATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0220 CONDENSER COLING WAT SUPPLIAT TEMPERATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0220 CONDENSER COLING WAT SUPPLIATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY 0220 CONDENSER COLING WAT SUPPLIATE, WAIER DEG. FAHR 1 REPORT REPORT NNNNNYY AMEREN CIPS - GRAND TOWER LL0000124 MISSISSIPPI RIVER 0010 MAIN CONDENSER COLING WATER TEMPERATE, WAIER DEG. FAHR 1 REPORT REPORT YYYYYNNN AMEREN CIPS - HUSSN'ILLE LL0004120 NORMER TEMPERATE, WAIER DEG. FAHR 1 REPORT NNNNNYY AMEREN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LL0004120 NORMER TATER DEG. FAHR 1 REPORT NNNNNYY AMERICAN CIPS - HUSSN'ILLE LLD004120 NORMER TATER DEG. FAHR 1	ALLIED LOCKE INDUSTRIES, INC.	IL0063070 TRIS	C GREEN RIVE	ER						
0010 CONDENSER CCLING WATER TEMPERATE, WATER DEG. FAHR 1 REPORT REPORT YYYYYMN 10000 CONDENSER CCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT YYYYYMN 10000 CONDENSER CCLING WAT OVERFLOW TEMPERATE, WATER DEG. FAHR 1 REPORT REPORT YYYYYMN 10000 CONDENSER CCCLING WAT SUPELHIL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT YYYYYMN 10010 CONDENSER CCCLING WAT SUPELHIL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT REPORT WYYYYMN 10000 CONDENSER CCCLING WAT SUPELHIL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT REPORT WYYYYMN 10000 CONDENSER CCCLING WAT SUPEL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT REPORT WYYYYMN 10000 CONDENSER CCCLING WAT SUPEL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT WYYYYMN 10000 CONDENSER CCCLING WAT SUPEL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT WYYYYMN 10000 MAIN CONDENSER CCCLING WAT SUPEL TEMPERATER, WATER DEG. FAHR 1 REPORT REPORT WYYYYMN 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER, WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSER CCCLING WATER TEMPERATER WATER DEG. FAHR 1 REPORT WYYYYYM 10000 MAIN CONDENSE CCLING WATER TEMPERATER				SG. FAME					REPORT	AAAAAAA
AMERIC CIPS - GRAND TOWER IL0000124 MISSISSIFPI RIVER 0010 MAIN CONDENSIR COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYY AMERICA CIPS - GRAND TOWER TOWN TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYY 0010 COMMENSED COLING WATER TOWN TEMPERATURE WATER DEG. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	O010 CONDENSER COCLING WATER	TEMPERALURE	AATER DE	EG. FAHR	1		*****	REPORT	REPORT	NNNNNYY
AMERIC CIPS - GRAND TIWER IL0000124 MISSISSIFFI RIVER 0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMERIC CIPS - HUISON/ILLE IL0004120 NGARSE FITER 0010 COMPRESS COTING WATER TEMPERATURE TATER DEG. FAHR 1 PROPERT YYYYYYYY	0010 CONDENSER COCLING WATER	TEMPERATURE	, WATER DE	EG. FAHR	1		*****	REPORT		
AMERIC CIPS - GRAND TIWER IL0000124 MISSISSIFFI RIVER 0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMERIC CIPS - HUISON/ILLE IL0004120 NGARSE FITER 0010 COMPRESS COTING WATER TEMPERATURE TATER DEG. FAHR 1 PROPERT YYYYYYYY	0200 CONDENSER COCLING WIR OV	ERFLOW TEMPERATURE	E. WATER DE	G. FAHR	1		*****	REPORT		
AMERIC CIPS - GRAND TIWER IL0000124 MISSISSIFFI RIVER 0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMERIC CIPS - HUISON/ILLE IL0004120 NGARSE FITER 0010 COMPRESS COTING WATER TEMPERATURE TATER DEG. FAHR 1 PROPERT YYYYYYYY	0210 CONDENSER COCLING WIR SU	JPPLMTL TEMPERATURE	AATER DE	G. FAHR	1		*****	REPORT		
AMERIC CIPS - GRAND TIWER IL0000124 MISSISSIFFI RIVER 0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMERIC CIPS - HUISON/ILLE IL0004120 NGARSE FITER 0010 COMPRESS COTING WATER TEMPERATURE TATER DEG. FAHR 1 PROPERT YYYYYYYY	0210 CONDENSER CUCLING WTR SU	PPLMTL TEMPERATURE	. WATER DE	G. FAHR	1		*****	REPORT	REPORT	YYYYYNN
AMERIC CIPS - GRAND TIWER IL0000124 MISSISSIFFI RIVER 0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMERIC CIPS - HUISON/ILLE IL0004120 NGARSE FITER 0010 COMPRESS COTING WATER TEMPERATURE TATER DEG. FAHR 1 PROPERT YYYYYYYY	0220 CONDENSER COCLING WTR SU	PPL TEMPERATURE	AATER DE	G. FAHR	1		*****	REPORT		
0010 MAIN CONDENSER COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYY AMEREN CIPS - HUISONILLE IL0004120 NGRASE FITER 0010 COMPANIES COLING WATER TEMPERATURE TATER DEG. FAHR 1				EG. FAHR	1		*****	REPORT	REPORT	YYYYNNN
AMEREN CIPS - HUTSON/ILLE 1L0004120 NAEASE FIVER 0010 CONDENSER COLLING WATER TEMPERATURE, MATER DEG. FAHR 1 REPORT YYYYYYYY AMEREN CIPS - NEWTON 1L0049191 NEWTON LAKE	0010 MAIN CONDENSER COLING W	VATER TEMPERATURE	, WATER DE					*****	REPORT	YYYYYYY
AMEREN CIPS - NEWTON ILLUM ILL	AMEREN CIPS - HUTSONVILLE 0010 CONDENSER COCLING WATER	IL0004120 WAEASH TEMPERATURE	FIVER , WATER DE	G. FAHR	1			*****	REPORT	YYYYYYY
	AMEREN CIPS - NEWTON	IL0049191 NEWSCN	LAKE)							

ACL = hotoficial Cooling Lake.

Have identified Il facilities that discharge wasterbater to lakes, ponds, wetlands, or sionghs, that have temperature limits in their NPDES permits.

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	FACILITY NAME	NPDES	RECEIVING	WATERS										
	PIPE PIPE DESCRIPTION	PARA	METER				ILOC	LM AV (Q)	LM MX (Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
	0020 MAIN CONDENSER CW 0020 MAIN CONDENSER CW	TEMP TEMP	ERATURE,	WATER WATER	DEG. F	FAHR I	l L			*****	REPORT 102	111 111	YYYYYYYYYYY YYYYYYYYYYY	
	AMEREN ENERGY-MEREDOSIA 0010 COND COOLING UNITS 1,2,3	IL0000116 TEMP	ILLINOIS ERATURE,	RIVER WATER	DEG. F	PAHR 1	ı			*****	•••••	REPORT	YYYYYYYYYY	
	AMEREN ENERGY-PINCKNEYV ILLE 0010 COOLING TWR BD4MISC EQ DE 0020 EVAPORATIVE COOLERS BLOWE	IL0075906 VAINS TEMP XXWN TEMP	ERATURE,	WATER	DEG. F	FAHR I	l l			*****	*****		YYYYYYYYYYYYYYYYYYYYYYYYYYYYY	
	AMERENUE-VENICE POWER PLANT 0030 CONDENSER CW, PUMP LUBE, CA 0040 CONDENSER CW, PUMP LUBE, CA	ISSON TEMP	ERATURE,	WATER WATER	DEG. F DEG. F	AHR I				*****	*****	REFORE	YYYYYYYYYYY	
ACL	AMERGEN ENERGY CO,LLC-CLINTON 0020 DISCHARGE FLUME	IL0036919 (TEMP	CLINTON L	AKE WATER	DEG. F	AHR I	ı			*****	REPORT	110.7	YYYYYYYYYY	
	AMEROCK CORPORATION 0030 ROOF DRAINAGE; NC COOLING 0040 ROOF DRAINAGE; NC COOLING	WTR TEMP	ERATURE,	WATER 1	DEG. F	AHR 1	l l			*****	*****		**************************************	
	AMSTED BURGESS NORTON 1-GENEVA 0010 OFFICE A/C,BLO DWN,FIRE 3 0020 NCCW;FIRE TEST WTR;ICE M	IL0036331 PEST W TEMP ACHINE TEMP	FOX RIVER ERATURE, ERATURE,	WATER :	DEG. F	PAHR I	l l			*****	*****		YYYYYYYYYYY YYYYYYYYYYY	
	AMSTED INDUSTRIES-PLANT 2 0011 NCCW, BOILER BD, SOFTNER W	IL0049221 WASTE TEMP	STORM SEW	ER TRIB WATER I	TO MI	LL CR	EEK			*****	*****	REPORT	YYYYYYYYYY	
	ANAMET ELECTRICAL 0020 NON-CONTACT COOLING WATER	IL0004049 TEMP	WILEY CREI	ek Water i	DEG. F	AHR I	L			*****	*****	REPORT	YYYYYYYYYY	
	ANDREW CORPORATION 0010 CONTACT COOLING WATER; SW	IL0004952 TEMP	SPRING CRI ERATURE,	EEK; MAI WATER I	RLEY C	REEK AHR 1	L			*****	*****	REPORT	AAAAÁAAAAA	
	ANR PIPELINE CO-NEW WINDSOR 0010 BOILER BLOWDOWN & FLOOR I	IL0065129 DRAINS TEMP				AHR I	l			*****	*****	REPORT		
	ANTIOCH PACKING HOUSE, INC. 0010 NON-CONTACT COOLING WATER	TEMP	ERATURE,	WATER I	DEG. F	AHR 1	l				*****	REPORT	YYYYYYYYYY	
	ARCHER DANIELS MIDLAND COMPANY 0010 NCCW & MISC. AUXILLARY ST	IL0064181 FREAMS TEMP	TRIB TO SO	OUTH FOI WATER I	RK SAN	GAMON TAHR I	RIV	ER		*****	*****	REPORT	YYYYYYYYYY	
	ARCHER DANIELS MIDLAND-PEORIA 0020 NON CONTACT COOLING WATER	IL0061930 ; SW TEMP	ILLINOIS ERATURE,	RIVER WATER I	DEG. F	AHR 1	L			*****	*****	REPORT	YYYYYYYYYY	

10/14/04 OL ************************************	ACTIVE INDUSTRIALS	WITH NPDES T	EMPERATURE REQUIREME	NTS		PAGE:	3	
Or *********		******	*********	******	********	• • • • • • • • • • • • • • • • • • • •	*********	QL
FACILITY NAME	NPDES RECEIVING WATERS	5						
PIPE PIPE DESCRIPTION	PARAMETER	MLCX	C IM AV(Q) LM MX(Q)	LM MN(C)	LM AV(C) I	M MX(C)	REQ MONTHS	
0040 NON CONTACT COOLING WATER	R TEMPERATURE, WATER	DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
ARCHER DANIELS MIDLAND-QUINCY 0010 NONCONTACT COOLING WATER		ER DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYYY	
ARMSTRONG WORLD INDUSTRIES 0010 CONTACT COOLING WATER	IL0002330 SOLDIER CREEK TEMPERATURE, WATER	DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
ATWOOD MOBILE PRODUCTS 0010 NON-CONTACT COOLING WATER					*****	REPORT	YYYYYYYYYY	
AUBREY MANUFACTURING, INC. 001B NONCONTACT COOLING WATER	TEMPERATURE, WATER	EE RIVER DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
AURORA TEXTILE FINISHING 0010 NCCW & EXCESS WELL PUMPAG	IL0055557 FOX RIVER GE TEMPERATURE, WATER	DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
AUX SABLE LIQUID PRODUCTS, LP 0020 COOLING TOWER BD, BACKWASH, 0020 COOLING TOWER BD, BACKWASH,	I,DR TEMPERATURE, WATER	DEG. FAHR 1 DEG. FAHR 1		*****	90 60		NNNYYYYYYY YNNNNNNYYY	
AVENTINE RENEWABLE ENERGY 0010 TR PROCESS, COOLI NG WTRS, BE 0020 NON-CONTACT COOLING WATER	BB,SW TEMPERATURE, WATER	DEG. FAHR 1 DEG. FAHR 1		*****	*****		YYYYYYYYYY YYYYYYYYYYY	
BALL HORTICULTURAL COW CHICA 0010 BBD, PLT IRRIGATION & WAT		DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
BANK OF WAUKEGAN-WEST SIDE 0010 NON-CONTACT COOLING WATER		DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
BARBER-COLMAN COMPANY-LOVES PK	R; SW TEMPERATURE, WATER	X TRIB TO ROCK DEG. FAHR 1	RIVER .	*****	*****	REPORT REPORT REPORT	AAAAAAAAAAA AAAAAAAAAAA AAAAAAAAAAA AAAA	
BARNES INTERNATIONAL 0010 NONCONTACT-COOLI NG WATER		DEG. FAHR 1		*****	*****	REPORT	YYYYYYYYYY	
BILTRITE METAL PRODUCTS, INC. 0010 NONCONTACT COOLING WATER	ILG250124 LITTLE INDIAN CF TEMPERATURE, WATER	REEK DEG. FAHR 1		*****	*****		YYYYYYYYYY	
BLACHFORD, INCWEST CHICAGO	IL0067458 STORM SEWER TRIE	TO KRESS CREE	EK					

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ACTIVE INDUSTRIALS WITH NPDES TEMPERATURE REQUIREMENTS	**** ****	*******	*** ****	******	QL
FACILITY NAME NPDES RECEIVING WATERS					
PIPE PIPE DESCRIPTION PARAMETER MLOC IM AV(Q) LM MX(Q) LM	M MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	_
0010 NONCONTACT COOLING WATER; SW TEMPERATURE, WATER DEG. FAHR 1				YYYYYYYYYY	
BLACKHAWK MOLDING COMPANY IL0065021 SALT CREEK					
BLACKHAWK MOLDING COMPANY IL0065021 SALT CREEK 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR > 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 6 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 6	******	*****		YYYYYYYYYYYY	
0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FARR 1	*****	*****	*****	NNNYYYYYYY	J
0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 6 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 6	*****	*****	*****	YYYNNNNNNNNYY	1
BOMBARDIER-WAUKE GAN IL0002267 WAUKEGAN HARBOR (LAKE MICHIGAN) 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0070 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0080 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0140 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1					
0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	*****		YYYYYYYYYY	
0070 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 0080 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 0140 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1	*****	*****		YYYYYYYYYYY	
0080 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0140 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	******	*****		YYYYYYYYYYY	
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BP NAPERVILLE COMPLEX IL0045241 WEST BRANCH OF DUPAGE RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	į
BP PRODUCTS-WOOD RIVER IL0000035 MISSISSIPPI RIVER 0020 W SURGE FOND EMERGENCY CVERFLO TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	ŗ
BRANCHFIELD CASTING COMPANY,IN ILG250175 UNNAMED TRIB TO EDWARDS RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	,
			1101 0111		
BUR TECHNOLOGIES COMPANY 110074349 UNNAMED TRIB TO KISHWAUKEE RIVER 0010 NON-CONTACT COOLING WATERS TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	ę
			11010111		
C.M. PRODUCTS, INC. IL0066311 UNNAMED TRIB OF FLINT CREEK 0011 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	,
CADBURY ADAMS USA LLC-ROCKFORD IL0003689 ROCK RIVER VIA DRAINAGE DITCH 0020 NONCONTACT COOLING WATER; SW TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	!
CANAL BARGE INCCHANNAHON IL0026581 DES PLAINES RIVER					
	*****	*****		AAAAAAAAAAAA	
	*****	*****	REPORT	YYYYYYYYYYY	(
CARGIL MEAT-BEARDSTOWN IL0023914 ILLINOIS RIVER					
A010 NCCW, SW, INTERNAL OUTFALL TEMPERATURE, WATER DEG. FAHR #	*****	*****		YYYYYYYYYY	:
CARGILL INC. SOYBEAN PLANT : 10056057 CALUMET RIVER					
0010 INDUSTRIALS SAN WWW YARD DRAIN TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	:
CARGILL, INC. IL0002577 SUGAR CREEK 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1					
0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	
CARMI CITY POWER PLANT IL0036498 LITTLE WABASH RIVER					
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FACILITY NAME	NPDES RECEIVI	NG WATERS						•		
PIPE PIPE DESCRIPTION	PARAMETER		MLOC	LM AV (Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
0010 GENERATOR COOLING WATER; 0010 GENERATOR COOLING WATER; 0020 ONCE-THROUGH NC COOLING 0020 ONCE-THROUGH NC COOLING	OVERFL TEMPERATURE, WATER TEMPERATURE,	WATER DEG. WATER DEG.	FAHR 1 FAHR 0			*****	*****	REPORT REPORT	YYYYYYYYY YYYYYYYYYY YYYYYYYYYY YYYYYYY	Y Y
CARUS CHEMICAL-LASALLE 0010 SOUTH LAGOON DISCHARGE	IL0002623 LITTLE TEMPERATURE	VERMILION RIV WATER DEG.	ER FAHR 1			*****	*****	REPORT	YYYYYYYYYY	Y
CATERPILLAR INCMAPLETON B010 NCCW (FORMER 001B) B010 NCCW (FORMER 001B) B010 NCCW (FORMER 001B)	IL0001830 ILLINOI TEMPERATURE, TEMPERATURE, TEMPERATURE,	RIVER WATER DEG. WATER DEG. WATER DEG.	FAHR 1 FAHR 6 FAHR 6			*****		*****	YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	Y
CATERPILLAR INCPONTIAC 0010 NON-CONTACT COOLING WATER			FAHR 1			*****	*****	REPORT	YYYYYYYYYY	Y
CATHOLIC DIOCESES OF ROCKFORD 0010 NON-CONTACT COOLING WATER	IL0071811 MANNING R; SW TEMPERATURE,	CREEK TRIB T WATER DEG.	O KISHWAUKER FAHR 1	RV.		*****	*****	REPORT	YYYYYYYYYY	Y
CCL CUSTOM MANUFACTURING, INC. 0020 REVERSE OSMOSIS & NC COO						*****	*****	REPORT	YYYYYYYYYY	Y
CENTER POINT PROPERTIES 0020 NONCONTACT COOLING AND S 0031 NON-CONTACT COOLING WATER	IL0001341 SUMMIT- STRMWTR TEMPERATURE, R; SW TEMPERATURE,	WATER DEG.	FAHR 1 FAHR 1			*****	*****		YYYYYYYYYYY	
CENTRAL ILL LIGHT CO-DUCK CK 0020 COOLING POND OVERFLOW						*****	*****	REPORT	YYYYYYYYYY	Y
CENTRAL LAKE COUNTY JAWA 0010 NON-CONTACT COOLING WATER	IL0068951 SKOKIE R TEMPERATURE,	DITCH WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYYY	Y
CENTURY TOOL AND MANUFACTURING 0010 NON-CONTACT COOLING WATER	IL0073555 STORMWAT R TEMPERATURE;	TER RENTENTION WATER DEG.	N POND PAHR 1			*****	*****	REPORT	XXXXXXXXXXX	Ý
CF INDUSTRIES - PERU 0020 NON-CONTACT COOLING WATER	IL0001783 ILLINOIS R TEMPERATURE,	RIVER WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYY	Ý
CF INDUSTRIES INC-KINGSTON TER 0010 NON-CONTACT COOLING WATER	: IL0069272 UNNAMED R TEMPERATURE,	CREEK TRIB T WATER DEG.	O ILLINOIS FAHR 1	RVR		*****	*****	REPORT	YYYYYYYYYY	ľ
CF INDUSTRIES INC-SENECA 0010 NCCW,GW,SEPTIC LEACH FIE			FAHR 1			*****	*****	REPORT	YYYYYYYYYY	ť
CF INDUSTRIES-CO WDEN TERMINAL	IL0048704 KASKASKI	A RIVER								

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QL ********** *********	ACTIVE INL	OSTRIALS	*****	H NPDES TEMPERATURE	********	MIS	******	****		QL
FACILITY NAME	NPDES RECEIVIN	g waters								
PIPE PIPE DESCRIPTION	PARAMETER			MLOC LM AV(Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
0010 NON-CONTACT COOLING WATER						*****	*****	REPORT	XXXXXXXXXXXXX	ľ
CFC INTERNATIONAL-CH ICAGO HGTS 0010 NCCW; ROOF RUNOFF	ILG250153 STATE ST TEMPERATURE,	REET DIT	DEG.	RIB TO THORN CK FAHR 1		*****	*****	REPORT	YYYYYYYYYY	Ý
CHEMTOOL, INC. 0010 NCCW; SW	ILG250003 DRAINAGE TEMPERATURE,	DITCH WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	Y
CHICAGO COKE COMPANY 0040 NC COOLING, SW, GR OUND WTR	IL0002593 CALUMET TEMPERATURE,	RIVER WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	Ý
CHICAGO SUN TIMES BUILDING 0010 NON-CONTACT COOLING WATER	ILG250110 CHICAGO TEMPERATURE,	RIVER WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	¥.
CHICAGO TRIBUNE-TRIBINE SQUARE 0010 NON-CONTACT COOLING WATER			DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	Y
CHICAGO-OHARE AIRPORT CITY OF										
WQ10 WILLOW CREEK BACKGROUND WQ20 BENSENVILLE DITCH BACKGRO	DATA TEMPERATURE,	WATER		FAHR Z		*****	*****		YYYYYYYYYYY	
WO30 BENSENVILLE DITCH DOWNSTE	REAM TEMPERATURE,	WATER	DEG.				*****		YYYYYYYYYY	
CHS ACQUISITION CORP 001A NON-CONTACT COOLING WATER	IL0001678 STATE ST	REET DIT	CH T	O THORN CREEK						
001A NON-CONTACT COOLING WATER	R TEMPERATURE,	WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYY	ť
CILCO-EDWARDS	IL0001970 ILLINOIS	RIVER								
0020 CONDENSER COOLING WATER	TEMPERATURE,	WATER	DEG.	FAHR >		*****	*****		YYYYYYYYYYY	
0020 CONDENSER COOLING WATER	TEMPERATURE,	WATER	DEG.	FARR 0		*****	*****		YYYYYYYYYYY	
0020 CONDENSER COOLING WATER	TEMPERATURE.	WATER	DEG.	FAHR 6		*****	*****	93	NNNYYYYYYYY	Я
0020 CONDENSER COOLING WATER	TEMPERATURE,	WATER	DEG.	FAHR 6		*****	*****	63	YYYNNNNNNNYYY	ť
CIVIC OPERA BUILDING										
0010 NONCONTACT COOLING WATER	TEMPERATURE,	WATER	DEG.	RIVER FAHR 1		*****	*****	REPORT	YYYYYYYYYYY	ť,
CLARK JL MFG CO-ROCKFORD	IL0059498 STORM SE	WER								
0010 NON-CONTACT COOLING WATER	TEMPERATURE,	WATER	DEG.	FAHR 1		*****	*****		YYYYYYYYYYY	
0030 NON-CONTACT COOLING WATER	R TEMPERATURE,	WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	ī
CLIMATE CONTROL, INCDECATUR 0010 NON-CONTACT COOLING WATER	IL0066346 SPRING C TEMPERATURE,	REEK WATER	DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	ť
CNH AMERICA LLC-BURR RIDGE 0010 NON-CONTACT COOLING WATER	IL0035025 FLAGG CF TEMPERATURE,		DEG.	FAHR 1		*****	*****	REPORT	YYYYYYYYYY	ť
CNH AMERICA LLC-EAST MOLINE	IL0004006 MISSISSI	PPI RIVE	R							

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Or ************************************	ACTIVE I	NDUSTRIALS	WITH NPDE	S TEM	PERATURE	REQUIREME	NTS			*********	QL
FACILITY NAME	NPDES RECEIVI	NG WATERS									
PIPE PIPE DESCRIPTION	PARAMETER			MLoc	LM AV (Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	_
0010 NCCW & STORM WATER 0020 NCCW & STORM WATER 0050 NCCW AND STORMWATER	TEMPERATURE TEMPERATURE	, WATER D	EG. FAHR EG. FAHR	1			*****	*****		YYYYYYYYYYYY	
COE-STARVED ROCK LOCK AND DAM 0010 NON-CONTACT COOLING WATE	ILG250079 ILLINOI	S RIVER					*****	*****	REPORT	********	,
COMDISCO-ROSEMON T	IL0069086 STORM	SEWER TRIB	TO DESPLA	INES	RVR						
0010 NON-CONTACT COOLING WATE		•	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYY	ľ
CONAGRA INTERNATIONAL-N PEKIN 0010 NONCONTACT COOLING WATER	IL0073270 ILLINOI R TEMPERATURE	S RIVER , WATER D	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	ŗ
CONOCOPHILLIPS-W COD RIVER 0010 TR PROCESS, SANITARY AND	SW TEMPERATURE	, WATER DI	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYYY	,
0011 TR PROCESS, SANITARY AND	SW TEMPERATURE	, WATER DI	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	t
0020 TR PROCESS, SANITARY AND	SW TEMPERATURE	, WATER DI	EG. FAHR	1			*****	*****		YYYYYYYYYYY	
0021 TR PROCESS, SANITARY AND	SW TEMPERATURE	, WATER D	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	!
CONSOLIDATED BISCUIT COMPANY 0010 NON-CONTACT COOLING WATE							*****	*****	REPORT	YYYYYYYYYYY	:
CONTINENTAL TIRE-MT VERNON 0030 MIXING NON-CONTACT COOLI	IL0035017 CASEY ING WTR TEMPERATURE		EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	!
COOK COMPOSITE&POLYME RS-LEMONT 0010 COOLING TWR BD, NCCW, BOI	LER BD TEMPERATURE,	, WATER DE	EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYY	!
CORDOVA ENERGY COMPANY LLC 0010 TOTAL PLANT EFFLUENT	IL0074438 MISSISS	IPPI RIVER									
0010 TOTAL PLANT EFFLUENT	TEMPERATURE	, WATER DE	EG. FAHR	1			*****	*****		YYNNNNNNNNN	
0010 TOTAL PLANT EFFLUENT	TEMPERATURE,	WATER DE	EG. FANK	1			******	*****		NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	
0010 TOTAL PLANT EFFICENT	TEMPERATURE	WATER DE	EG FAHR	i			*****	*****		NNNNNNNNNNNNN	
0010 TOTAL PLANT EFFLUENT	TEMPERATURE.	WATER DE	EG. FAHR	ī			*****	*****		NNNYNNNNNNNN	
0010 TOTAL PLANT EFFLUENT	TEMPERATURE.	WATER DE	EG. FAHR	ī			*****	*****		NNNNNNNNNYNN	
0010 TOTAL PLANT EFFLUENT	TEMPERATURE,	WATER DE	G. FAHR	ī			*****	*****	R1	ATATATATVATATATATATATATA	
0010 TOTAL PLANT EFFLUENT	TEMPERATURE,	WATER DE	EG. FAHR	1			*****	*****	88	NNNNYNNYNN	1
0010 TOTAL PLANT EFFLUENT	TEMPERATURE,	WATER DE	EG. FAHR	1			*****	*****	89	NNNNNYYNNNN	
CORN PRODUCTS INTERNATIONAL 0010 NON-CONTACT COOLING WATER			EG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	
CUSHMAN&WAKEFIEL D OF ILLINOIS 0010 NONCONTACT COOLING WATER								*****	nanor-	www.www.	
DANA CORPORATION-WARN ER ELEC			G. FARK						REPORT	YYYYYYYYYYY	

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ACTIVE INJUSTICALS WITH NPDES TEMPERATURE REQUIREMENTS		*****	***** QL
FACILITY NAME NPDES RECEIVING WATERS			
PIPE PIPE DESCRIPTION PARAMETER MLOC LM AV(Q) LM MX(Q) LM	MN(C) LM AV(D LH MX(C)	REQ MONTHS
001B PROCESS WASTE TEMPERATURE, WATER DEG. FAHR 1	*****		
DART CONTAINER-NORTH AURORA IL0051381 SPRINGEROLE CREEK 0010 WTR SOFTENER REGEN & BOILER BD TEMPERATURE, WAITER DEG. FAHR 1		REPORT	YYYYYYYYYYY
DASCO PRODUCTS INC-ROCKFORD ILG250154 ROCK RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WRITER DEG. FAHR 1	*****	** REPORT	YYYYYYYYYYY
UNIO NONCONTACT COULTN'S WIR, BUILDE TEATERNIONE, RELEA DEG. FAIR T	*****	· REPORT	YYYYYYYYYY
1010 TREATED FROCESS WIR & NOW TEMPERATURE, WELL SEG. FARK I	*****	** REPORT	YYYYYYYYYYY
	*****	I COLOUI	**************************************
DEAN FOODS-DIXON IL0062910 STORM SEXEF TRIB TO ROCK RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	•••••	** REPORT	YYYYYYYYYY
volv new damage was a second with the second	*****	* REPORT	YYYYYYYYYYY
DEAN FOODS-ROCKFORD IL0003841 NORTH BRANTS OF KENT CREEK 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	*****	REPORT	YYYYYYYYYY
DEAN SPECIALTY FOODS-PECATONIC IL0034908 PECATONICA FITER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1	****	REPORT	YYYYYYYYYYY
DEERE HARVESTER WORKS IL0003018 MISSISSIFF RIVER; HONEY CREEK 0010 NON CONTACT COOLING WATER; SW TEMPERATURE, WALLER DEG. FAHR 1	*****	REPORT	YYYYYYYYYYY
	****** ****	TATE OF T	YYYYYYYYYYY
DEL MONTE CORP-MENDOTA IL0003115 LITTLE VERFILION RIVER 0020 COOLING WATER; SW TEMPERATURE, WEIER DEG. FAHR 1	*****	* REPORT	YYYYYYYYYY
UNIO NUN-CONTACT COODING WATER TEMPERATURE, BEER DEG. PAGE T	*****	* REPORT	AAAAAAAAAAA
DIAL CORP-MONTGOMERY IL0001899 MILL CREEK TRIB TO FOX RIVER 0010 NCCW 6 STORMWATER RUNOFF TEMPERATURE, WRITE DEG. FAHR 1	*****	* REPORT	YYYYYYYYYYY

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		REPORT	*****	*****		мев	J I	PAHR PAHR	KIRM	TRIB TO	ONNAMED ERATURE,	0054879 STE TEMP	CS CND	COMPRESS	'ND YIK IEZ INC	NDOSTR	0010 EFCO I	
	**********	TROPER	*****	*****		-	τ	FAHR	DEC.		ECCK RIVE							
	*****	REPORT	*****	*****			τ	EAHR	DEC.		ESYLONE' KICKYBOO							
	**********	REPORT	*****	*****				CREE EAHR			EAST BRAI ERATURE,							
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	NNNXXXXXXXXX XXXNNNNNNXX XXXXXXXXXXX	29	*****	*****		TYKE	9	SHA3	DEC.	OIS MIS MATER WATER MATER		SET	NMOOMO	e vereno	ATIVE	EVAPOR	0010	て
	**********	REPORT	*****	*****			ī	FAHR	- 93G		SENTURE			FING MY.				
	*******	REPORT	*****	*****			τ	AHA3	DEC.	REVIR RETAW	ILLINOIS,	I V Z I D O O						
	**********	TROGER	*****	*****						MATER WATER	EYYLOKE' KYRKYRKIY	0000043 D TEMP						
	**********	REPORT	*****	*****			J EEK	EVHE	DEC.	TRIB TO	CANAMED ERATURE,	1276000 Tereno	II RETER	COOPING SLEWS	INE EXE	ломоти, помоти	4. ASTUQ 0108	
	**********	REPORT	******	*****		но	DIIC	SDAN FHAT	DEG.	POND TO	ONNAMED ESATORE,	9810925 TEMP	II ABTAW	COOPING SEINLING	TDATM	иои-со Тріис	0010 DBC WC	
	**********	TROSER	*****	*****			τ	FAHR			CHICAGO		II	NOI	TARO9RO:	STER C	DORCHE	
i	**********	TROGER	*****	*****			τ	FAHR	DEG.	MYLEK CKEEK	CRABAPPLE CRABAPPLE	1601200 SENST	II	E RMSO	e sons	NCCM'E	0010 DOMMET	
	REQ MONTHS	ги мх(с)	IM AV(C)	TW WN(C)		OC IM AV (Q)	W				gatan	ARA9		NOI	DESCRIPT			
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FACILITY NAME	NPDES RECEIVIN	G WATERS				
PIPE PIPE DESCRIPTION	PARAMETER		MLOC IM AV (Q)	LM MX (Q) LM MN (C)	LM AV(C) LM MX(C)	REQ MONTES
ELEMENTIS PIGMENTS, INC. 0010 NON-CONTACT COOLING WATER	IL0038709 SCHOENBE R TEMPERATURE,	RGER CK TRIB TO WATER DEG. FAH	CAHOKIA CK HR 1		***** REPORT	YYYYYYYYY
EMERSON POWERTRANS-SEALM ASTER 0011 NON-CONTACT COOLING WATER	TIOO22174 CEIMADEE	N CDEEK				YYYYYYYYYY
ENGINEERED STORAGE PRODUCTS 0010 NCCW & STORMWATER	IL0038377 UNNAMED TEMPERATURE,	TRIB TO KISHWAUK WATER DEG. FAR	EE IR 1	*****	****** REPORT	YYYYYYYYYYYY
ENGINEERED STORAGE PRODUCTS 0010 NCCW & STORMWATER EQUISTAR CHEMICALS, LP 0070 COMBINED DISCH FROM 001	1L0002917 ILLINOIS 6 002 TEMPERATURE, 6 002 TEMPERATURE, 6 002 TEMPERATURE, 6 002 TEMPERATURE,	RIVER; AUX SABL WATER DEG. FAH WATER DEG. FAH WATER DEG. FAH WATER DEG. FAH	E CREEK iR 1 iR 1 iR 1	*****	REPORT REPORT	AAANSEGGGAA AAANSEGGGGAA NNUAAAAAAAA NNUAAAAAAAAA
EQUITABLE BUILDING 0010 NONCONTACT COOLING WATER	TEGS20024 CUTCUGO	KIVER		*****		YYYYYYYYYY
EXCEL FOUNDRY & MACHINE, INC. 0010 NON-CONTACT COOLING WATER 0020 NON-CONTACT COOLING WATER	IL0063827 OLD CHAN TEMPERATURE, TEMPERATURE,	NEL TO MACKINAW WATER DEG. FAH WATER DEG. FAH	RIVER IR 1 IR 1	*****	****** REPORT	AAAAAAAAAAAA AAAAAAAAAAA
EXELON GENERATING COMPANY-ZION 0010 HOUSE SERVICE WATER	TEMPERATURE,	WATER DEG. FAH		*****	*****	YYYYYYYYYY
EXELON GENERATION CO.,LLC 0020 COOLING POND BLOWDOWN 0020 COOLING POND BLOWDOWN 0020 COOLING POND BLOWDOWN 0040 COOLING POND DISCHARGE	IL0002224 ILLINOIS TEMPERATURE, TEMPERATURE, TEMPERATURE, TEMPERATURE,	RIVER WATER DEG. FAH WATER DEG. FAH WATER DEG. FAH WATER DEG. FAH	IR 1 IR 6 IR 6 IR 1	*****	***** 93 ***** 63 ***** REPORT	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
EXELON GENERATION CO, LLC 0010 COOLING PND BD; SOFTENER I	IL0048151 ILLINOIS REGERT TEMPERATURE,	RIVER WATER DEG. FAH	R 1 ·	*****	****** REPORT	AAAAAA
EXELON GENERATION-BRAID WOOD 0010 COOLING POND BLOWDOWN LIN	IL0048321 KANKAKEE NE TEMPERATURE,	RIVER; MAZON RI WATER DEG. FAH	VER IR 1	*****	***** REPORT	YYYYYYYYYYYYY
EXELON GENERATION-QUAD CITIES 0010 001/002 OPEN CYCLE DIFFUS	SERS TEMPERATURE, SERS TEMPERATURE, SERS TEMPERATURE, SERS TEMPERATURE, SERS TEMPERATURE,	WATER DEG. FAH	R > R 1 R 6 R 6 R 6 R 6	***** ***** ***** *****	***** REPORT ***** 48 ***** 60 ***** 71 ***** 81	AAAAAAAAAAAAA

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FACILITY NAME NPDE	S RECEIVING AAL	**								
PIPE PIPE DESCRIPTION	PARAMETER		MLO	LM AV (Q)	LM MX (Q)	LM MN(C)	IM AV(C)	IM MX(C)	REQ MONTHS	
0010 001/002 OPEN CYCLE DIFFUSERS 0010 001/002 OPEN CYCLE DIFFUSERS 0010 001/002 OPEN CYCLE DIFFUSERS 0010 001/002 OPEN CYCLE DIFFUSERS 0010 001/002 OPEN CYCLE DIFFUSERS	TEMPERATURE, WATER TEMPERATURE, WATER TEMPERATURE, WATER	155. 155. 155.	FAHR 6 FAHR 6 FAHR 6 FAHR 6 FAHR 6			*****	*****	88 89 78 68 55	имимимимими килимимимимимимимимимимимимимимимимимими	
EXELON THERMAL TECHNOLOGIES ILG25 0020 NONCONTACT-COOLI NG WATER	0151 CHICAGO RIVER TEMPERATURE, WATER	CEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYYY	
EXXON MOBIL CORPORATION IL006 0010 BOILER BLOWDOWN, STEAM COND, SW	53061 DES PLAINES RI TEMPERATURE, RATER	TER TEG.	FAHR 1			*****	******	FEPORT	YYYYYYYYYY	
EXXONMOBIL OIL-JOLIET REFINERY 1L000 0020 NONCONTACT COOLING WATER	D2861 DES PLAINES RI TEMPERATURE, RATER TEMPERATURE, RATER TEMPERATURE, RATER TEMPERATURE, RATER TEMPERATURE, RATER	TER (189. 189. 189. 189.	FAHR 1 FAHR 6 FAHR 6 FAHR 6			*****	******	REPORT 100 REPORT	**************************************	
FANSTEEL INC-NORTH CHICAGO IL000 0011 NON-CONTACT COOLING WATER	02411 PETTIBONE CREE TEMPERATURE, WATER	K TRIB DEG.	FAHR 1	CHIGAN		*****	*****		YYYYYYYYYY	
FINKL, A. AND SONS CCMPANY IL00: 0020 NON-CONTACT COOLING WATER 0030 NON-CONTACT COOLING WATER 0040 NON-CONTACT CCOLING WATER	35483 NORTH BRANCH C TEMPERATURE, RAIER TEMPERATURE, RAIER TEMPERATURE, RAIER	HICAGO PEG. PEG. PEG.	RIVER FAHR 1 FAHR 1 FAHR 1	-		*****	*****	PEPORT	**************************************	
FOULD'S INC. IL002 0010 NON-CONTACT COOLING WATER	20656 DES PLAIMES RI TEMPERATURE, MAJER	Ter Deg.	FAHR 1			*****	•••••	REPORT	YYYYYYYYYYY	
FOUR HUNDRED CONDOMINIUM ILG25 0010 NONCONTACT COCLING WATER		CEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYYY	
GAS RECOVERY SYSTEMS-HANOVER P IL00 0010 DISCHARGE FROM A010; SW	72460 MALLARD LAKE TEMPERATURE, WELL	æ.	FAHR 1			*****	•••••	REPORT	, YYYYYYYYYYY	
GE PLASTICS-OTTA WA IL000 B010 COOLING WTR&SW(FORMALLY CO1B) C010 TREATED PROCESS WASTEWATER	TEMPERATURE, RIER	DEG. DEG.	FAHR J FAHR J		•	*****	*****		YYYYYYYYYYY YYYYYYYYYYY	
GENERAL CHEMICAL LLC IL000 0010 NON-CONTACT CCOLING WATER; SW	00647 ROSE CREEK TEMPERATURE, WATER	æ.	FAHR 1			*****	*****	PEPORT	YYYYYYYYYY	
GENERAL MILLS INC-BELVIDERE IL000 0020 NON-CONTACT COOLING WATER	3450 KISHWAUFEE RIY TEMPERATURE, WRIER	ER DEG.	FAHR 1			*****	*****		YYYYYYYYYYY	

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	FACILI	TY NAM	E		N:	PDES	RECEIVIN	G WATER	.s									
	PIPE	PIPE D	ESCRIP	TION		PA	RAMETER				MLOC	LM AV(Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
	0030 0040	NON-CO	TACT TACT	COOLING W	VATER VATER	TE TE	MPERATURE, MPERATURE,	WATER WATER	DEG. DEG.	FAHR FAHR	1				*****		YYYYYYYYYY	
	GENERA 0020	L MOTO	RS-MCCO NCCW,	OOK PLANT AND SW	' II	L0001813 TE	TRIB TO	MCCOOK-: WATER	DEG.	DITCH FAHR	1			*****	*****	REPORT	YYYYYYYYYY	YY
	001A	NON-COL	TACT	COOLING W	VATER	TE	UNNAMED MPERATURE,	WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	ťΥ
	GOLDEN 0010 0020	GRAIN NON-CON NON-CON	CO-BR VTACT VTACT	IDGEVIEW COOLING W	II VTR; BLO VATER	L0073342 WDN TE	CHICAGO MPERATURE, MPERATURE,	SANITAR WATER WATER	Y AND DEG. DEG.	SHIP FAHR FAHR	CANAL 1 1			*****	*****		YYYYYYYYYY YYYYYYYYYY	
4	GOLDSC 0010	HMIDT-M	APL ET BOILER	ON BD, SW	11	L0023726 TE	ILLINOIS MPERATURE,	RIVER WATER	VIA PO	OND L	LY LA	KE		*****	*****	REPORT	YYYYYYYYYY	ΥY
							SILVER (DEG.	FAHR	1			*****	*****	REPORT	XXXXXXXXXXXXXX	ſΥ
	0010	NCCW.	COOF, TN	G TWR BLC	MDOWN	TE	ROCK RIV MPERATURE, MPERATURE, MPERATURE,	WATER	DEG.	FAHR	1			*****	*****	63	YYYYYYYYYYY YYYNNNNNNN NNNYYYYYYYY	īΥ
	HAEGER 0010	POTTEN	RIES-DU FFACT	JNDEE COOLING W	II MATER	.0033898 TEI	UNNAMED MPERATURE,	TRIB TO	FOX E	RIVER FAHR	1			*****	*****	REPORT	YYYYYYYYYY	Υ
	HANDSCI 0010	HY INK	AND C	HEMICALS BLOWDOWN	, sw	10068926 TE	LITTLE O	CALUMET WATER	RIVER DEG.	VIA S FAHR	TORM 1	SEWR		*****	*****	REPORT	YYYYYYYYY	YY
	0010	NON-CON	TACT	COOLING W	ATER	TE	BRANCH (WATER	CREEK DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	Y
	HEAD I 0010	NCORPOR NON-CON	TACT	COOLING W	II ATER	.0047228 TE	FOX RIVE	R WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	Y.
	HOFFER 0010	PLASTI NON-CON	C COR	PORATION COOLING W	II ATER	.0004979 TE	FOX RIVE	R WATER	DEG.	FAHR	1			. *****	******	REPORT	YYYYYYYYYY	Y
	0010	NON-CON	TACT	COOLING W	ATER	TEN	STORM SE	WATER	DEG.	OX RI FAHR	VER 1			*****	*****	REPORT	YYYYYYYYYY	Y
	0010	COOLING	TOWE	R BD. SUMPS	SEDRAIN	IS TEM	KASKASKI MPERATURE, MPERATURE,	WATER	DEG.	FAHR FAHR	1			*****	*****	63 93	YYYNNNNNNNN NNYYYYYYYY	IY N

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FACILITY NAME	NPDES	RECEIVING	WATER	S									
PIPE PIPE DESCRIPTION	PAR	AMETER				MLOC	IM AV (Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
													-
HOLLYWOOD DINING CENTER-ROCKFD 0010 NONCONTACT-COOLI NG WATER	TEM	PERATURE,	WATER						*****	*****	REPORT	YYYYYYYYYY	Y
HOOPESTON FOODS, INC. 0010 NCCW, & BOILER BLOWDOWN 0020 NON-CONTACT COOLING WATER	IL0022250 TEM TEM	N. FORK V PERATURE, PERATURE,	VERMILI WATER WATER	DEG.	R STRM FAHR FAHR	SWR 1 1			*****	*****	IVE OUT	YYYYYYYYYY	
ILLINOIS TOOL WORKS 0010 NON-CONTACT COOLING WATER	R TEM	PERATURE,	WATER	DEG.					•••••	*****	REPORT	YYYYYYYYYY	Y
IMTT-LEMONT 0010 BOILER BD, SAFETY SYSTEMS,	SW TEM	PERATURE.	WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	Y
INDEPENDENCE TUBE CORPORATION 0310 NONCONTACT COOLING WATER	ILG250128 TEM	STORM SEW PERATURE,	VER TRI WATER	B TO I	LLINO FAHR	IS RI 1	VER		*****	*****	REPORT	YYYYYYYYY	Y
INEOS SILICAS AMERICAS LLC 0010 NC COOLING & STORM WATER	IL0002569 TEM	DES PLAIN PERATURE,	ES RIV WATER	ER DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	Y
INGERSOLL PRODUCTION SYSTEMS 0010 NON-CONTACT COOLING WATER									*****	*****	REPORT	YYYYYYYYYY	Y
INTERLAKE COMPANIES-PONTIA C 0010 STORMWATER & NCCW 0020 STORMWATER & NCCW	IL0047333 TEM TEM	VERMILION PERATURE, PERATURE,	RIVER WATER WATER	DEG. DEG.	FAHR FAHR	1			******	*****		YYYYYYYYYYY	
INTERMATIC INC. 0010 NCCW AND DISCH FROM 001A6					FAHR					*****	REPORT	YYYYYYYYYY	Y
INTERNATIONAL STEEL-RIVERDALE INTK INTAKE (SPECIAL CONDITION 0030 NCCW BASIC OXYGEN; SW	4) TEM	PERATURE,	WATER	DEG.	CENT	0			*****	*****	KEPURI	AAAAAAAAAAAAA AAAAAAAAAAAAAA	
INTERNATIONAL TRUCKSENGINE COR 0010 NCCW, CONDENSATE, BLOWDOWN,	SW TEM	PERATURE,	WATER	DEG.	FAHR					*****	REPORT	YYYYYYYYYY	Y
ISG HENNEPIN INC. A010 NON-CONTACT CW,SW,TR PROC	IL0002631 ESS TEM	ILLINOIS PERATURE,	RIVER WATER	DEG.	FAHR				*****	*****	REPORT	YYYYYYYYYY	Y
K.A. STEEL CHEMICALS, INC. 0010 MISC & NCCW 0020 NON-CONTACT COOLING WATER	IL0022934 TEMI TEMI	CHGO SAN PERATURE, PERATURE,	SHIP C WATER WATER	ANAL DEG. DEG.	FAHR FAHR	1						YYYYYYYYYYYYYYY	
KENT FEEDS, INCROCKFORD	IL0069922	UNNAMED D	отсн т	RIB TO	KISH	WAUKEE	R						

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	FACILITY NAME	NPDES	RECEIVING											
	PIPE PIPE DESCRIPTION	PARA	METER				MLOC	LM AV (Q)	LM MX(Q)	LM MN(C)	IM AV(C)	LM MX(C)	REQ MONTHS	_
	0010 BOILER BLOWDOWN AND COND	ENSATE TEM	PERATURE,	WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYY	Y
ALL	KINCAID GENERATION, L.L.C. 0010 CONDENSER COOLING & HSE	IL0002241 (SERV TEME	LAKE SANCERATURE,	GCHRIS WATER	DEG.	FAHR	1			*****	99	111	YYYYYYYYY	Y
	KOCH NITROGEN CO-CREVE COEUR 0010 NONCONTACT COOLING WATER 0030 NONCONTACT COOLING WATER	TEMP	ILLINOIS PERATURE, PERATURE,	WATER		FAHR FAHR				*****	*****		YYYYYYYYYY YYYYYYYYYY	
	ROCH NITROGEN COMPANY-E. ALTON 0010 NON-CONTACT COCILING WATER 0010 NON-CONTACT COCILING WATER 0020 NON-CONTACT NO	IL0070173 R TEMP R TEMP R TEMP	OLD WOOD ERATURE, ERATURE, ERATURE,	RIVER WATER WATER WATER WATER	CK CHA DEG. DEG. DEG. DEG.	NNEL FAHR FAHR FAHR FAHR	TO MI 1 6 6	ss		*****	*****	63 93 REPORT	ХХХИИИИИИИ ХХХХХХХХХХ ХХХИИИИИИИИ ХХХХИИИИИИИИ	Y N Y
	0020 NON-CONTACT COOLING WATER	R TEMP	ERATURE,	WATER	DEG.	FAHR	6			*****	*****		NNNYYYYYYY	
5	KRAFT FOODS-CHAMPAIGN 0011 NON-CONTACT COOLING WATER	IL0004227 (R TEMP	COPPER SI	LOUGH WATER	DEG.	FAHR	1			. *****	*****	REPORT	YYYYYYYYY	Y
	KRAFT INC-CHAMPAIGN MATTIS 0010 NON-CONTACT COOLING WATER	IL0066826 R TEMP	KASKASKIA ERATURE,	RIVER WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYY	Y
	LAFARGE CORPJOPPA PLANT 0010 NCCW, COOLING TWR BLDN, &	IL0004081 SW TEMP	OHIO RIVE	ER WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYY	¥
	LAGROU DISTRIBUTION SYSTEM 0010 NON-CONTACT COOLING WATER				DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	ľ
	LAKESHORE EAST DEVELOPMENT 0010 NON-CONTACT COOLING WATER				DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	ť
	LANDIS GARDNER 0010 NCCW, STORMWATER, GROUNDW	IL0061948 WATER TEMP			DEG.	FAHR	1			~ *****	*****	REPORT	YYYYYYYYYY	۲.
	LASALLE ROLLING MILLS, INC. 0010 NONCONTACT COCLING WATER									*****	*****	REPORT	YYYYYYYYYY	ę.
	LAUHOFF GRAIN COMPANY 0010 NONCONTACT COCLING & S. V	W. TEMP	ERATURE,	WATER						*****	*****	REPORT	ŶŶŶŶŶŶŶŶŶŶŶŶŶ	e
,	LAWRENCE HARDWARE-ROCK FALLS 0010 NCCW, PUMP OVERFLOW, SW	IL0062979 TEMP	UNION DR ERATURE,	DITCH '	TRIB T DEG.	O ROC	K RIV	ER		*****	*****	REPORT	YYYYYYYYYY	¢
	LINCOLN-CARLYLE HARTFORD, LLC	ILG250029	SOUTH BR	ANCH CH	ICAGO	RIVER								

LINCOLN-CARLYLE HARTFORD, LLC ILG250030 SOUTH BRANCH CHICAGO RIVER TEMPERATURE, WATER DEC. FARR 1 LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LAMOTE CREEK 0010 COOLING TOWER; FILTER BACKWASH TEMPERATURE, WATER DEC. FAHR 1 LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LAMOTE CREEK 0010 COOLING TOWER; FILTER BACKWASH TEMPERATURE, WATER DEC. FAHR 1 LONE STAR INDUSTRIES-OGLES BY IL0036595 VERMILION RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 O020 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 O030 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 LONG-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 LSP - KENDALL ENERGY, LLC O010 COOL TOWER BLDN, CONDENS 4 SW TEMPERATURE, WATER DEC. FAHR 1 LSP - KENDALL ENERGY, LLC O010 TOTAL PLANT DISCRARGE TEMPERATURE, WATER DEC. FAHR 1 LSP-NELSON ENERGY GENERATION IL0074209 UNNAMED TRIB TO THREE MILE BRANCH C O010 TOTAL PLANT DISCRARGE TEMPERATURE, WATER DEC. FAHR 1 LSP-NELSON ENERGY GENERATION IL0074209 UNNAMED TRIB TO THREE MILE BRANCH C O010 TOTAL PLANT DISCRARGE TEMPERATURE, WATER DEC. FAHR 1 REPORT YYYYYYYYYY LURIE COMPANY LONG-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 REPORT YYYYYYYYYY MARATHON ASHLAND PETROLEUM LLC IL0032271 E. CITY RESERVOR) O010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEC. FAHR 1 REPORT YYYYYYYYYYY MARATHON ASHLAND PETROLEUM LLC IL0032271 E. CITY RESERVOR) O010 TREASMENT PLANT DISCRARGE TEMPERATURE, WATER DEC. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	PAGE: 15	REQUIREME	ES TEMPERATURE	WITH NPD	STRIALS	ACTIVE INDU		******		04 •••••	10/14/6
PARAMETER MIGO IM MV(Q) IM MV(Q) IM MV(Q) IM MV(C) REQ MONTHS 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYY LINCOLN-CARLYLE HARTFORD,LLC ILG250030 SOUTH BRANCH CHICAGO RIVER 0010 TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYYY LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LANOTTE CREEK 0010 COOLING TOWER; FILTER BACKWASH TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY					WATERS	RECEIVING	NPDES			TY NAME	FACILI
LINCOLN-CARLYLE HARTFORD, LLC ILG250030 SOUTH BRANCH CHICAGO RIVER TEMPERATURE, WATER DEG. FAHR 1 LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LAMOTTE CREEK 0010 COOLING TOWER; FILTER BACKWASH TEMPERATURE, WATER DEG. FAHR 1 LONE STAR INDUSTRIES-OGLES BY LL0036595 VERMILION RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT SOUTH NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCH	LM MN (C	IM MX(Q)	MLOC LM AV (Q)			ARAMETER	PA	N	SCRIPTION	PIPE DES	PIPE
LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LAMOTTE CREEK 0010 COOLING TOWER; FILIER BACKMASH TEMPERATURE, WATER DEG. FAHR 1 LINCOLNIANT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0020 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0030 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0040 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISC			1	EG. FAHR	WATER I	EMPERATURE,	R TE	LING WATER	TACT COC	NON-CONTA	0010
LINCOLNIAND AGRI-ENERGY-PALE ST IL0076562 STORM DRAIN TRIB TO LAMOTTE CREEK 0010 COCLING TOWER; FILIER BACKMASH TEMPERATURE, WATER DEG. FAHR 1 LONE STAR INDUSTRIES-OGLES BY 1L0036595 VERMILION RIVER 0010 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0020 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0030 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0030 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0040 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0050 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 0010 TOTAL PLANT DISCHA	***** REPORT YYYYYYYYYY		1	AGO RIVE EG. FAHR	NCH CHIC	O SOUTH BRA EMPERATURE,	ILG25003	ORD, LLC	E HARTF	N-CARLYLE	LINCOL: 0010
LONE STAR INDUSTRIES-OGLES BY IL003695 VERMILION RIVER 0010 NON-CONTACT COCLING WATER TEMPERATURE, WATER DEC. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY			E CREEK 1	TO LAMOTT EG. FAHR	IN TRIB	2 STORM DRA EMPERATURE,	IL0076561 KWASH TE	GY-PALE ST ILTER BACK	GRI-ENER TOWER; F	NLAND AG COOLING	LINCOLN 0010
LONZA, INC. 110049697 ILLINOIS RIVER 0010 COOL TOWER BLDN, CONDENS & SW TEMPERATURE, WATER DEG. FAHR 1 LSP - KENDALL ENERGY, LLC 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 LSP-NELSON ENERGY GENERATION 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 LSP-NELSON ENERGY GENERATION 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 LSP-NELSON ENERGY GENERATION 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 LSP-NELSON ENERGY GENERATION 0010 TOTAL PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1 LURIE COMPANY 0010 NCW TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYY MAPER CORPORATION-WEST CHICAGO IL0074446 STORM SEWER TRIB TO KRESS CREEK 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 MARATHON ASHLAND PETROLEUM LLC IL0032271 (E.CITY RESERVOR) 0010 HYDROSTATIC TEST WATER; SW TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYY REPORT YYYYYYYYYY REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY					DIVED	5 VERMITTON	TT.003659	ACT DO BY	TCTDTTC_/	TAD INDIC	TOME C
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MARRITHON ASHLAND PETROLEUM,LLC IL0004073 SUGAR CREEK 0010 TREATMENT PLANT DISCHARGE TEMPERATURE, WATER DEG. FAHR 1	***** REPORT YYYYYYYYYY		1	EG. FAHR	ESERVOR WATER D	1 (E. CITY R	IL0032273	OLEUM LLC T WATER; S	AND PETR	ON ASHLAN HYDROSTAT	MARATHO 0010 I
MATHESON TRI-GAS INC IL0062618 (ABANDONED QUARRY) TO SUGAR RUN ONLO NON-CONTACT COOLING WATER TEMPERATURE WATER DEG. FAHR 1	***** REPORT YYYYYYYYY		1	EG. FAHR	EK WATER D	3 SUGAR CRE	IL0004073	OLEUM, LLC DISCHARGE	AND PETR T PLANT	ON ASHLAN TREATMENT	MARATHO 0010 1
The state of the s	***** REPORT YYYYYYYYYY		RUN 1	TO SUGAR EG. FAHR	QUARRY WATER D	B (ABANDONED MPERATURE,	IL0062618	LING WATER	SAS INC ACT COO	ON TRI-GA	ATHESO 0010 1
MATHEWS COMPANY-CRYSTAL LAKE IL0072851 FOX RIVER 0010 NON-CONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	REPORT YYYYYYYYYY		1	EG. FAHR	WATER D	1 FOX RIVER MPERATURE,	IL0072851	L LAKE LING WATER	Y-CRYSTA ACT COO	COMPANY NON-CONTA	MATHEWS
MCCLEARY INDUSTRIES IL0067903 ROCK RIVER 0010 NONCONTACT COOLING WATER TEMPERATURE, WATER DEG. FAHR 1 REPORT YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	REPORT YYYYYYYYY		1	EG. FAHR	R WATER D	ROCK RIVER MPERATURE,	IL0067903 TE	ING WATER	TRIES CT COOL	RY INDUST NONCONTAC	ACCLEAR 0010 1

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	FACILITY NAME	NPDES	RECEIVING	WATER	s								
	PIPE PIPE DESCRIPTION								LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS
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	MCWHORTER INCORPORATED 0010 NON-CONTACT COOLING WATE 0020 NCCW, BOILER BD	R TEME TEME	ERATURE, ERATURE,	WATER WATER						*****	*****		YYYYYYYYYYY YYYYYYYYYYYY
	MEREDOSIA TERMINAL 0020 NON-CONTACT COOLING WATE	IL0070343 R TEME	DRAINAGE ERATURE,	DITCH WATER	TRIB DEG.	TO ILL FAHR	INOIS 1	RVR		*****	*****	REPORT	YYYYYYYYYYY
	0010 COOLING WATER	TEMP	ERATURE,	WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYYY
8	MG INDUSTRIES-MA PLETON 0010 COOLING TOWN BLODWN, FILTE	IL0070122 ER BW TEME	POND LILY PERATURE,	LAKE) WATER	TRIB DEG.	TO ILL FAHR	INOIS 1	RVR		*****	*****	REPORT	YYYYYYYYYY
	MGP INGREDIENTS OF ILLINOIS 0010 CONTACT COOLING WATER 0020 NON-CONTACT COOLING WATE	IL0002909 TEMP R TEMP	ILLINOIS ERATURE, ERATURE,	RIVER WATER WATER	DEG. DEG.	FAHR FAHR	1			*****	*****		**************************************
	MIDWEST GENERATION-POWER TON 0020 COOLING POND EMERGENCY C	IL0002232 VERFLO TEME	ILLINOIS PERATURE,	RIVER WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYYY
	MIDWEST GENERATION, LLC-C OLLINS 0010 COOLING POND BLOWDOWN	IL0048143 TEMP	ILLINOIS ERATURE,	RIVER WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYYY
	MIDWEST GENERATION,LLC-C RAWFRD 0010 CONDENSER COOLING WTR&HS 0010 CONDENSER COOLING WTR&HS	E SER TEMP	ERATURE.	WATER	DEG.	FAHR	1			*****	*****	100 93	YYYYYYYYYYY
	MIDWEST GENERATION,LLC-F ISK 0010 CONDENSER COOLING WTR & 0010 CONDENSER COOLING WTR &	HOUSE TEMP	ERATURE,	WATER	DEG.	FAHR	1			*****	*****	100 93	YYYYYYYYYY YYYYYYYYYYYYYYYYYYYYYYYYYYY
	MIDWEST GENERATION,LLC-J OLIET 0010 CONDENSER COOLING WTR.,H 0010 CONDENSER COOLING WTR.,H 0010 CONDENSER COOLING WTR.,H	SE SER TEME SE SER TEME	ERATURE,	WATER	DEG.	FAHR	6			*****	REPORT		YYYYYYYYYYY YYYYYYYYYYYY YYYYYYYYYYYY
	MIDWEST GENERATION, LLC-J 0010 CONDENSER COOLING AND HS 0010 CONDENSER COOLING AND HS 0010 CONDENSER COOLING AND HS	IL0002216 E SERV TEMP E SERV TEMP	DES PLAIN ERATURE, ERATURE,	ES RIV WATER WATER	ER DEG. DEG.	FAHR FAHR	1 6			***** *****	REPORT	*****	AAAAAAAAAAA AAAAAAAAAAAA AAAAAAAAAAAAA
	MILWEST GENERATION, LLC-W AUKEGN 0010 CIRCULATING WATER	IL0002259 TEMP	LAKE MICH ERATURE,	IGAN V WATER	TA 00 DEG.	1. FAHR	1			REPORT	REPORT	REPORT	YYYYYYYYYY
	MICWEST GENERATION, LLC-W ILL CO	IL0002208	CHICAGO S	ANITAR	Y AND	SHIP	CANAL						

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	FACILITY NAME	NPDES RECEIVING	WATERS						
	PIPE PIPE DESCRIPTION	PARAMETER		MLOC LM AV (Q)	LM MX(Q) LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	
	0010 CONDENSER COOLING; HSE SEE 0010 CONDENSER COOLING; HSE SEE	RV WTR TEMPERATURE, RV WTR TEMPERATURE,	WATER DEG. FA	HR 1 HR 6	*****	*****	100 93	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	MIDWEST ZINC-HILLSBORO, INC. 0011 NCCW/ FURNACE MAINTENANCE	TEMPERATURE,	WATER DEG. FA	SHOAL CREEK HR 1	*****	*****	REPORT	YYYYYYYYY	
	MINN MINING & MFGCORDOVA 0010 COMBINED WASTEWATER FLOW	TEMPERATURE,	WATER DEG. FA		*****	*****	REPORT	YYYYYYYYY	
	MITSUBISHI MOTOR MANUFACTURING 0010 EAST RETENTION BASIN-NCCW					*****	REPORT	XXXXXXXXXXX	
9	MOBIL MININGAMINERALS CO-DEPUE 0020 GROUNDWATER/STOR MWATER	TEMPERATURE,	e) and trib to : Water deg. Fa				REPORT	YYYYYYYYYY	
	MODERN METAL PRODUCTS-ROCKFOR D 0010 NONCONTACT-COOLI NG WATER	ILG250061 ROCK RIVE TEMPERATURE,	R VIA STORM SE WATER DEG. FA	WER HR 1	****	*****	REPORT	YYYYYYYYY	
	MODINE MANUFACTURING-MC HENRY 0020 NON-CONTACT COOLING WATER	R; SW TEMPERATURE,	WATER DEG. FAI		*****	*****	REPORT	MANAGARAA.	
	MORTON INTERNATIONAL-RI NGWOOD 0010 NCCW, BW, BB, WW, GW	IL0001716 DUTCH CRE TEMPERATURE,	EK TRIB TO FOX WATER DEG. FAI	RIVER HR 1	. *****	*****	REPORT	xxxxixxxxxx	
	MORTON MANUFACTURING COMPANY 0020 NCCW 0030 NCCW	TEMPERATURE, TEMPERATURE,	WATER DEG. FAI WATER DEG. FAI		*****	*****		YYYYYYYYYY YYYYYYYYYY	
	MPG INDUSTRIES, INC. 0010 STEAM CONDENSATE 0010 STEAM CONDENSATE 0010 STEAM CONDENSATE	IL0074900 DRAINAGE TEMPERATURE, TEMPERATURE, TEMPERATURE,	DITCH WATER DEG. FAI WATER DEG. FAI WATER DEG. FAI	HR 1 HR 6 HR 6	*****	*****	REPORT 63 93	NDOSELLECTIN XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX	
	NASCOTE INDUSTRIES-NASHV ILLE 0010 CCOLING TOWER BLO DOWN; S 0020 CCOLING TOWER BLO DOWN; S	IL0068136 MIDDLE CR	EEK VIA DRAINAG WATER DEG. FAI	E DITCH	*****	*****		YYYYYYYYYY YYYYYYYYYY	
	NATIONAL MAINTENANCE&REPA IR 0010 BARGE CLEANING WASTEWATER	IL0068055 MISSISSIPP TEMPERATURE,	PI RIVER WATER DEG. FA	fR 1	*****	*****	REPORT	XXXXXXXXXX	
	NATIONAL STARCH AND CHEMICALS A010 NCCW;SW(INTERNAL) FORMER 0 001A ANNUAL SAMPLING AT 001	001A TEMPERATURE,	WATER DEG. FAI	HR J HR J	*****	*****	REPORT	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
	NESTLE FOODS-LIBBY DIV MORTON	IL0060852 BULL RUN	CREEK						

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	XXXXXXXXXX	REPORT	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *		DES PIAINES RIVER; LK MICHIGAN(002) ERATURE, WATER DEG. FAHR &	ER; LK DEG, H	NES RIVI WATER	IL0067725 DES PLAI TEMPERATURE,	ONYX ZION LANDFILL INC ILO	
	XXXXXXXXXXX	REPORT	* * * * *	* * * * * * * * * * * * * * * * * * * *		TRIB OF SANGAMON RIVER WATER DEG. FAHR 1	SANGAM DEG. E	TRIB OF WATER	IL0075435 UNNAMED	CNYX VALLEY LANDFILL-DECATUR ILO	
	XXXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX	REPORT REPORT	* * * *	: : :		FAHR 1 FAHR 1 FAHR 1		WATER WATER WATER	TEMPERATURE, TEMPERATURE,	0060 ZONE 6 FORCE MAIN (EMERGENCY) 0130 WEST SLOUGH FORCE MAIN 0150 ZONE 6 WWTF FORCE MAIN	
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	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	REPORT REPORT REPORT	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *		FAHR 1 FAHR 1 FAHR 1	DEG. I	EK WATER WATER WATER	IL0068331 SALT CREEK MWAIR TEMPERATURE, W IND SW TEMPERATURE, W IND SW TEMPERATURE, W	OFFICE PARK OF HINSDALE ILOOGS OOLD NO COOLING WATER AND STORMATER OOLO NON-CONTACT COOLING WER AND SW 0030 NON-CONTACT COOLING WER AND SW	
	XXXXXXXXXXX	REPORT	* * * * * * * * * * * * * * * * * * * *	* * * * * *		SOLDIERS CREEK DEG. FAHR 1		TRIB TO	IL0035297 UNNAMED	NUCOR STEEL INC-BOURBONNALS ILO 0020 PROCESS COOLING WATER: SW	
	አአአአአአአአአአ	REPORT	* * * * * *	* * * * * * * * * * * * * * * * * * * *		FAHR 1	DEG. E	RIVER	IL0001352 ILLINOIS 001A TEMPERATURE,	NOVEON INC-HENRY ILO 0010 PROCESS WWGALTERN ROUTE 001A	
	XXXXXXXXXXX	REPORT	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *		FAHR 1	DEG. 1	HIGAN WATER	IL0066541 LAKE MICHIGAN	NORTHWESTERN UNIVERSITY ILO	
	****	REPORT	***	:		KRESS CREEK FAHR 1	- 75	WER TRI	IL0046540 STORM SEWER TRIB TO	NORTHWESTERN FLAVORS, LLC ILO 0010 NON-CONTACT COOLING WATER	
	XXXXXXXXXXX	REPORT	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *		CREEK) FAHR 1	•	ER (SINKI WATER	IL0061239 ROCK RIVER(SINKIAWIC	NORTHERN STAR PLATINGLEINISHING ILO 0010 NON-CONTACT COOLING WATER	
	XXXXXXXXXXX	REPORT	* * * * *	* * * * * * * * * * * * * * * * * * * *		CREEK FAHR 1	SUGAR DEG.	TRIB TO	IL0001952 UNNAMED	NESTLE USA-BLOCMINGTON ILO	
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	REQ MONTHS	TW WX (C)	LM AV (C)	IM MN(C)	IM MX (Q)	MLOC LM AV (Q)			PARAMETER	PIPE PIPE DESCRIPTION	
							u,	G WATERS	ES RECEIVING	FACILITY NAME NPDES	
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					DIC	SYVEY	IS OL	SEMER	MROTZ	165 MUNDELEIN	DE IFC520	I NUM:	CESS, INC	AMCE PRO	PERFORM
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	FACILITY NAME	NPDES RECEIVIN	G WATERS								
	PIPE PIPE DESCRIPTION	PARAMETER		MELOC	TM AV(Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	_
	PETERS JW INC-ROCHELLE 0010 SW RUNOFF, MIXER WASHECW	IL0067261 STORM S N TEMPERATURE,	EWER TO KYTE WATER DEG.	CREEK FAHR I			*****	*****	REPORT	YYYYYYYYYY	¥ .
	PHILLIPS PIPELINE COMPANY 0010 TR EFFL, BLOWDWN, HYDROSTA	IL0002585 TRIB TO FIC,SW TEMPERATURE,	WILEY CREEK WATER DEG.	TO KANKAREE FAHR 1	FTR		*****	*****	REPORT	YYYYYYYYYY	ſ
	PIERCE & STEVENS CORPORATION 0010 NCCW AND STORMWATER	IL0063975 DUPAGE TEMPERATURE,	RIVER WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYY	ľ
	PIERCE CHEMICAL COMPANY 0010 NON-CONTACT COCLING WATE	IL0003191 UNNAMED R TEMPERATURE,	TRIB TO NORTH WATER DEG.	H FORK KENT FAHR 1	=3		*****	*****	REPORT	YYYYYYYYYY	Ĺ
	PLOCHMAN, INCMANTENC 0010 NON-CONTACT COCLING WATER 0010 NON-CONTACT COCLING WATER 0010 NON-CONTACT COCLING WATER	IL0074144 SOUTH B	R ROCK CREEK WATER DEG.	TO KANKAKEE FAHR 1	FIR		*****	*****	REPORT	YYYYYYYYYY	
							*****	*****	REPORT	YYYYYYYYYYY	
	PMP FERMENTATION PRODUCTS, INC 0010 NON-CONTACT COCLING MATER 0020 CONTACT COCLING MATER 0060 NON-CONTACT COCLING MATER 0070 NON-CONTACT COCLING MATER	IL0025615 ILLINOIS	RIVER VIA S	TORM SEWER			*****		•		
	0020 CONTACT COOLING WATER	TEMPERATURE,	WATER DEG.	FAHR 1 FAHR 1			*****	*****		YYYYYYYYYYYY	
	0060 NON-CONTACT COCLING WATER	R: SW TEMPERATURE,	WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYY	ť
	0070 NON-CONTACT COCLING WATER	R; SW TEMPERATURE,	WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYY	
	POWER PACKAGING, INCMANTENO 0010 NONCONTACT COOLING WAFER	TEMPERATURE,	WATER DEG.	CREEK FAHR 1			*****	*****	REPORT	YYYYYYYYYY	:
A 1) PPG INDUSTRIES	IL0001791 (LAKE DEC	ATUR)								
	A020 NCCW, SW, GW (FORMER 002A) A020 NCCW, SW, GW (FORMER 002A) A020 NCCW, SW, GW (FORMER 002A)	TEMPERATURE,	WATER DEG.	FAHR 1			*****	*****		YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	
	A020 NCCW, SW, GW (FORMER 002A)	TEMPERATURE,	WATER DEG.	FAHR 6			*****	*****		NNNYYYYYYYN	
	0010 NCCW, BBD, SW, GW, WIR S	OFTNER TEMPERATURE,	WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYYY	
	0010 NCCW, BBD, SW, GW, WTR SO 0010 NCCW, BBD, SW, GW, WTR SO	OFTNER TEMPERATURE,	WATER DEG.	FAHR 5			*****	*****		YYYNNNNNNNYYY	
									23	MMMITITIE	
	PRINCE MFG CO-QUINCY 0010 NON-CONTACT COCLING WATER	IL0038270 S QUINCY TEMPERATURE,	DR DITCH TR WATER DEG.	IB TO MISS . FAHR 1	RÍTR		*****	*****	REPORT	YYYYYYYYYYY	
	PROGRESSIVE STEEL TREATING 0010 NONCONTACT-COOLI NG WATER	ILG250067 ROCK RIV TEMPERATURE,	ER WATER DEG.	FAHR 1			*****	*****	REPORT	YYYYYYYYYY	
	PROGRESSIVE STEEL-LOVES PARK A010 NONCONTACT COCLING WATER B010 NONCONTACT COCLING WATER	IL0046566 ROCK RIV TEMPERATURE, TEMPERATURE,	ER WATER DEG. WATER DEG.	FAHR J FAHR J			*****	*****		YYYYYYYYYYY YYYYYYYYYYY	
_	PROJECT RESOURCES INC-GENEVA	IL0074420 FOX RIVE	R								
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FACILITY NAME NP	DES RECEIVING WAT	ERS							
PIPE PIPE DESCRIPTION	PARAMETER		MLOC LM AV (Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	-
0010 COOLING TOWER BLOWDOWN			1		*****	*****	REPORT	YYYYYYYYYY	Y
PVS CHEMICALS, INC. IL. 0010 NON-CONTACT COOLING WATER 0020 NON-CONTACT COOLING WATER	TEMPERATURE, WATE	R DEG. FAHR	1 1		*****	*****		**************************************	
QUAKER OATS COMPANY ILO 0010 NON-CONTACT COOLING WATER	0001473 FLINT CREEK T TEMPERATURE, WATE	RIB TO FOX F R DEG. FAHR	RIVER 1		*****	*****	REPORT	YYYYYYYYYY	Y
QUALITY METAL FINISHING-BYRON IL 0020 NON-CONTACT COOLING&TR PROCE	0003581 ROCK RIVER ESS TEMPERATURE, WATE	R DEG. FAHR	. 1 ,		*****	****	REPORT	YYYYYYYYYY	Y
QUEBECOR WORLD-MT. MORRIS IL:	0003972 UNNAMED TRIB ATR TEMPERATURE, WATE				*****	*****	REPORT	YYYYYYYYYY	Y
RADCO INDUSTRIES INC-LAFOX ILC 0010 NON-CONTACT COOLING WATER	0068292 TRIB OF MILL TEMPERATURE, WATER	CREEK R DEG. FAHR	. 1		*****	*****	REPORT	YYYYYYYYYY	ř
RESOLUTION PERFORMANCE PRODUCT ILI A050 STEAM CONDENSATE AND SW 0040 STEAM CONDENSATE AND SW 0050 STEAM CONDENSATE AND SW	0075205 TRIB TO CHICAG TEMPERATURE, WATE TEMPERATURE, WATE TEMPERATURE, WATE	O SANITARY R DEG. FAHR R DEG. FAHR R DEG. FAHR	CANAL 1 1 1		*****	*****	REPORT	**************************************	Y
RHODIA, INCCHICAGO HEIGHTS ILL 0010 NCCW & STORMWATER	0035220 STATE STREET TEMPERATURE, WATE	DITCH TRIB T R DEG. FAHR	O THORN CK		*****	*****	REPORT	YYYYYYYYYY	ď.
RHODIA, INCCHICAGO HEIGHTS ILI 0010 NCCW & STORNWATER RICHARDSON ELECTRONICS-LAFO X IL 0020 NON-CONTACT COOLING WATER; 0030 NON-CONTACT COOLING WATER;	0024333 TRIB TO MILL SW TEMPERATURE, WATE SW TEMPERATURE, WATE	CREEK R DEG. FAHR R DEG. FAHR	1		*****	*****		YYYYYYYYYYY	
RIVER CITY APARTMENT&COMMER CIA ILC 0010 NON-CONTACT COOLING WATER	G250047 SOUTH BRANCH TEMPERATURE, WATE	CHICAGO RIVE R DEG. FAHR	R 1		*****	*****	REPORT	YYYYYYYYYY	ć
ROCHELLE FOODS, INC. ILC 0010 HEAT EXHANGER, NCCW, FI LTER B	0003638 KYTE RIVER VI W TEMPERATURE, WATE		R 1		*****	*****	REPORT	, , , , , , , , , , , , , , , , , , ,	Ċ
ROCK PLASTIC PRODUCTS ILC 0010 NON-CONTACT COOLING WATER	0061816 KENT CREEK TEMPERATURE, WATE	R DEG. FAHR	1		*****	*****	REPORT	YYYYYYYYYY	e
ROCKFORD BOLT&STEEL-ROCKF ORD ILC 0010 NONCONTACT-COOLI NG WATER .	G250073 ROCK RIVER TEMPERATURE, WATER	R DEG. FAHR	1		*****	*****			e
ROCKFORD MEMORIAL HOSPITAL ILC 0010 NONCONTACT COOLING WATER	0073580 ROCK RIVER VI TEMPERATURE, WATE	A STORM SEWE R DEG. FAHR	R 1		*****	*****	REPORT	YYYYYYYYYYY	ſ
ROCKFORD POWERTRAIN, INC ILC	0066265 DRAINAGE DITCH	TRIB TO ROO	CK RIVER						

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	OT ******** ******	*******	******	******	*****		******	***********	******	********	**** ****	**********	QL
	FACILITY NAME	NPDES	RECEIVING	WATERS									
	PIPE PIPE DESCRIPTION							IM MX (Q)	LM MN(C)	LM AV(C)	LM MX(C)	REQ MONTHS	~
	0040 STORMWATER AND NC COOLING	WTR TEM	PERATURE,	WATER I	DEG. FAH	R 1			*****	*****	REPORT	AAAAAÄAAAAA	Y
	ROCKFORD PRODUCTS CORPORATION 0010 NON-CONTACT COOLING WATER				DEG. FAH	R 1			*****	*****	REPORT	YYYYYYYYYY	Y .
	ROCKFORD PRODUCTS-PLANT #2 0010 NON-CONTACT COOLING WATER								*****	*****	REPORT	YYYYYYYYYY	Y
	ROWELL CHEMICAL CORPORATION 0010 WATER SOFTENER, PROCESS , NO								*****	*****	REPORT	YYYYYYYYYY	Y
	ROYSTER CLARK NITROGEN COMPANY 0010 COMBINED DISCHARGE	TEM	PERATURE,	WATER I					*****	*****	REPORT	YYYYYYYYYY	Y
	ROYSTER CLARK-MEREDOSIA HTW 0020 NON-CONTACT COOLING WATER	IL0071889 TEM	GROUND SU PERATURE,	JRFACE, TR WATER I	IB TO IL	LIXOIS	RVR		*****	*****	REPORT	YYYYYYYYYY	Ý
	ROYSTER-CLARK NITROGEN 0010 BOILER, COOLING TOWER, STORE					1			*****	*****	REPORT	YYYYYYYYYYY	ľ
	SANGAMON VALLEY LANDFILL INC 001Q QUARTERLY STORMWATER 002Q QUARTERLY STORMWATER	TEM	PERATURE,	WATER I	DEG. FAHR	1	VER		*****	*****		YYYYYYYYYYY YYYYYYYYYYYY	
	SENECA FOODS CORP-PRINCEVILLE 0020 NONCONTACT COOLING WATER				DEG. FAHR	. 1			*****	*****	REPORT	YYYYYYYYYY	ı
	SLATER LEMONT CORP-LEMONT A030 OVERFLOW FR ROLLING MILL 0010 NCCW-MELT-SHOE & REHEAT F 0030 ROLLING MILL PROCESS WAST	TEME URNCE TEM	PERATURE,	WATER D	DEG. FAHR	1			*****	*****	REPORT	YYYYYYYYYY YYYYYYYYYYYY YYYYYYYYYYY	Ĺ
3 ACL	SOUTHERN ILL POWER-MARION 0030 CONDENSER COOLING WATER	IL0004316 TEME	LITTLE SA	ALINE CRE WATER D	EEKELAKE DEG. FARR	OF EGY	PT)		*****	*****	REPORT	YYYYYYYYYYY	<i>r</i> .
	SOYLAND POWER COOP INC-PEARL 0010 CONDENSER COOLING WATER	IL0036765 TEME	ILLINOIS PERATURE,	RIVER WATER D	DEG. FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	ć
	0010 LAKESIDE CONDENSER COOLING 0020 DALLMAN 1 & 2 CONDENSER CO 0090 DALLMAN 3 CONDENSER 0090 DALLMAN 3 CONDENSER	G WIR TEME W TEME TEME TEME	PERATURE, PERATURE, PERATURE,	WATER D WATER D WATER D	DEG. FAHR	. 1			*****	*****	109	**************************************	((
	STATE STREET MANAGEMENT-ROCKF	ILG250051	ROCK RIVE	R									

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	FACILI'	TY NAME		NPDES	RECEIVING	WATER.	s 									
	PIPE	PIPE DES	CRIPTION	PAI	RAMETER				MLOC	LM AV (Q)	LM MX(Q)	LM MN(C)	LM AV(C)	LM MX (C)	REQ MONTHS	_
			CT-COOLI NG WATER												YYYYYYYYYY	
	0020 0040	NG STEEI TREATED WEST PLA	. CO LLC-STERLING SCRUBBER WATER E INT RECIRCULATION	IL0003794 D TE BLODN TE	l ROCK RIVE MPERATURE, MPERATURE,	R WATER WATER	DEG. DEG.	FAHR FAHR	1			*****	*****	REPORT REPORT	YYYYYYYYYYY YYYYYYYYYYY	ľ Ľ
	0010	TREATED	R CORPORATION PROC, SAN, BBDM	& NCCW TEX	MPERATURE,	WATER	DEG.					*****	. *****	100	YYYYYYYYYYY	ć
	0010	NONCONTA	IES, INC. CT COOLING WATER	; SW TEM	IPERATURE,	WATER	DEG.	FAHR	1	_		*****	*****	REPORT	YYYYYYYYYY	c
11	SURGIPA 0010	ATH MEDI CONTACT	CAL INDUSTRIES COOLING WATER	IL0070645 TEM	WETLANDS APERATURE,	AROUND WATER	N BR DEG.	NIPPE FAHR	RSINK	CK)		*****	*****	REPORT	YYYYYYYYYY	ſ
			TION-ROCK FORD BOILER BLOWDOWN									*****	*****	REPORT	YYYYYYYYYY	ť
			TION-ROCK FORD CT COOLING WATER									*****	*****	REPORT	YYYYYYYYYYY	r
	TEXTROI 0010	N INC-CA NON-CONT	MCAR TAPTITE DIV ACT COOLING WATER	IL0074021 R TEM	STORM SEV	ER TRI	DEG.	ISHWAU FAHR	JKEE 1	RVR		*****	*****	REPORT	YYYYYYYYYYY	:
	TOTE C	ART COMP	ANY CT COOLING WATER	IL0067911 TEM	KENT CRÉE IPERATURE,	K SOUTI WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	•
	0010	NON-CONT	DIST ENERGY CO ACT COOLING WATER	R TFD∿	PERATURE.	WATER	DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYYY	:
	TURN-KE 0010 I	EY FORGI NON-CONTI	NG&DESIGN-E LK GR ACT COOLING WATER	IL0076741 TEM	WILLOW CF	EEK TR WATER	IB TO DEG.	DES P FAHR	LAINES 1			*****	*****	REPORT	YYYYYYYYYY	:
	U.S. E	COLOGY, SEEPAGE	INCSHEFFIELD COLLECTION SYSTEM	IL0066176 1 TEM	UNNAMED TIPERATURE,	RIB TO WATER	LAWSO	N CRE CENT	EK 1			*****	*****	REPORT	, , , , , , ,	••
	0010	NON CONT.	ABS-NORTHBROOK ACT COOLING WATER	R. TEM	PERATURE,	WATER	DEG.	FAHR				*****	*****		YYYYYYYYYYY	
	UNION S	SPECIAL NON-CONTA	CORPORATION CT COOLING WATER	IL0003662 TEM	KISHWAUKE PERATURE,	RIVER WATER	VIA DEG.	STORM FAHR	SEWEF	l		*****	*****		YYYYYYYYYYY	
	UOP LLO	C-MCCOOK NONCONTAC	T COOLING WATER	ILG250139 TEM	MCCOOK-SUN	MIT D WATER	TCH DEG.	FAHR	1			*****	*****	REPORT	YYYYYYYYYY	
	US CHRO	ME CORP	OF ILLINOIS	IT0003808	MOSQUITO	CREEK V	/IA TI	LE DR	AIN S	STM						

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FACILITY NAME	NPDES RECEIV	ING WATERS						
PIPE PIPE DESCRIPTION	PARAMETER		MLOC LM AV 1	LM MK(Q) LM MN(C)	LM AV(C) L	4 MX (C)	REQ MONTHS	
A010 FORMERLY OUTFALL 01A0				•			AAAAAAAAAAA	
VANEE FOODS COMPANY-BERKLEY 0010 NON-CONTACT COOLING WATER			SON CREEK FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	
VANEE FOODS COMPANY-BROADVIE W 0010 NON-CONTACT COOLING WATER			FAHR 1	*****	*****	REPORT	YYYYYYYYY	
VERTEX CHEMICAL COMPANY-DUPO 0010 NON-CONTACT COOLING WATER			ER CREEK FAHR 1	*****	*****	REPORT	YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	
VIO BIN U.S.A. 0010 NON-CONTACT COOLING WATER 0030 NON-CONTACT COOLING WATER	R TEMPERATURE	, WATER DEG.	AMON RIVER FAHR 1 FAHR 1	******	*****	REPORT REPORT	YYYYYYYYYYYYYYYYYY	
WINNETKA WATER & ELECTRIC 0010 CONDENSER AND EQUIPMENT 0020 HEATED DISCH FR 20 INCH 0030 HEATED DISCH FR 60 INCH	CW; SW TEMPERATURE INTAKE TEMPERATURE	E, WATER DEG. E, WATER DEG.	FAHR 1 FAHR 1 FAHR 1	*****	REPORT REPORT REPORT	REPORC	MAKAKANIN KAKAKANAKA KAKAKAKAKAKA	
WOODWARD GOVERNOR COMPANY 0010 NCCW, FOUNDATION DRAINAGE			ED TRIB FAHR 1	*****	*****	REPORT	YYYYYYYYYY	
WOODWARD GOVERNOR COMPANY 0010 NON-CONTACT COOLING WATER	IL0066508 STORM R TEMPERATURE	SEWER TRIB TO F E, WATER DEG.	ROCK RIVER FAHR 1	*****	*****	REPORT	AXAXAXAXAXXX	
WRIGLEY BUILDING-SCRIBCO R INC. 0010 NONCONTACT COOLING WATER			FAHR 1	*****	*****	REPORT	YYYYYYYYYY	
ZENITH CUTTER COMPANY-ROCKFORD 0010 NONCONTACT CW AND STORMWA	IL0068161 WILLOW ATER TEMPERATURE	CREEK TRIB TO E, WATER DEG.	ROCK RIVER FAHR 1	*****	*****	REPORT	YYYYYYYYYYY	
222 SOUTH RIVERSIDE, LLC 0010 NON-CONTACT COOLING WATER	IL0005169 SOUTH R TEMPERATURE	BRANCH CHICAGO E, WATER DEG.	RIVER FAHR 1	****	*****	REPORT	YYYYYYYYYYY	
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ATTACHMENT A

6.0 FIELD MEASUREMENTS AND CALIBRATION PROCEDURES

Water quality parameters routinely assessed in the field as indicators of lake quality for the IEPA Ambient Lake Monitoring program include:

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Secchi

Conductivity

Water Temperature

Dissolved Oxygen

Alkalinity

With the exception of Secchi transparency, all of the above parameters are collected at each lake site and at the same depth where water samples are collected.

6.1 Field Calibration Procedures

Four water quality parameters including ph, water temperature, specific conductance, and dissolved oxygen, are measured with a Hydrolab Corporation multi-parameter instrument (4000 series, Surveyor II, Surveyor III, or Scout). Calibration procedures for the Hydrolab 4000 series are described in detail in Section B of the DWPC QA and Field Methods Manual.

Individual pH, specific conductance, or dissolved oxygen meters may also be used for measurement of in situ lake parameters when a Hydrolab is not available. Calibration of each instrument is accomplished in accordance with the instructions provided by the manufacturer. In the event a Hydrolab or other instrument is not available, pH and specific conductance of surface and bottom samples may be requested from the Laboratory.

6.2 Dissolved Oxygen/Temperature Profile

In addition to the Hydrolab measurements made at the same depth where water samples are collected, a dissolved oxygen/temperature profile is made as described below:

- 1. Measure D.O. and water temperature at the surface.
- 2. Measure D.O. and water temperature at 1 foot below water surface In addition, also record pH and specific conductance at this depth.
- 3. Proceed at 2 foot intervals, using the marked Hydrolab cable to measure depth, until the bottom is reached.

4. In addition at Site 1, a measurement at 2 feet above the bottom must be made, as well as pH and specific conductance to coincide with depth of the bottom sample.

ATTACHMENT B





Techniques of Water-Resources Investigations of the United States Geological Survey

CHAPTER D1

WATER TEMPERATURE—INFLUENTIAL FACTORS, FIELD MEASUREMENT, AND DATA PRESENTATION

By Herbert H. Stevens, Jr., John F. Ficke, and George F. Smoot

BOOK 1

COLLECTION OF WATER DATA BY DIRECT MEASUREMENT

Field applications and procedures

Accurate temperature data are essential in order to document thermal alterations to the environment caused by the activities of man and by natural phenomena. This section on field applications and procedures presents guidelines for selection of suitable instrumentation and recommended procedures for the collection of temperature data in streams, lakes, estuaries, and ground water.

Streams

Objectives and accuracy requirements

A water-temperature station on a stream may be part of a network of continuously reporting stations or a temporary station (continuous or intermittent) for special localized studies, such as one for defining the effects of a heated discharge or a reservoir release. The water temperature reported for a station should represent the stream's mean cross-sectional temperature except at sites where complex temperature gradients exist. Generally, the accuracy should be within 0.5°C; however, special studies may dictate greater or lesser accuracy.

Selection of temperature measuring system

The type of temperature system to be used on a stream will depend upon the kind and frequency of data being sought. Measurements of surface temperature or temperature with depth at irregular intervals may be sufficient at some locations; however, at most locations it is desirable to put in a permanent installation at which the temperature is monitored continuously.

Hand thermometers used to obtain surface observations of water temperature and to check the setting of thermographs should be mercury filled and accurate within 0.5°C. It is essential that all hand thermometers be calibrated before use and checked periodically during use with an ASTM standard or goodgrade laboratory thermometer. The recom-

mended procedures to calibrate a hand thermometer are given in the section on operation, maintenance, and calibration of instruments (p. 28-30).

The maximum-minimum thermometer (p. 24) is an inexpensive device for obtaining temperature extremes but not their time of occurrence. James Mundorff (written commun., 1973) has used the maximum-minimum thermometer to obtain maximum and minimum temperatures between observations at a regular gaging station. A maximumminimum thermometer is placed in a 1-foot (25-cm) length of $2\frac{1}{2}$ or 3-inch (64- or 76-mm)diameter galvanized pipe, such as that used for gage-well intakes. This pipe can either be threaded and capped, or, if 21/3-inch (64-mm) pipe is used, be bored for cross-bolts at both ends of the pipe. If the pipe is capped, it should be perforated with holes to allow free circulation of water. The encased thermometer is placed in the stream near the edge of water in the vicinity of the gage house and is fastened to the gage house with a short length of cable. The best location for placement is where the water is flowing but where the device is somewhat protected.

Portable water-temperature-measuring systems used for obtaining temperature profiles should be compact, rugged, and accurate within 0.5°C. Most portable systems utilize a thermistor as the temperature-sensing element and use dry-cell batteries to supply power needs. Both recording and nonrecording types are available. The temperature in nonrecording systems usually is obtained directly from an electrical meter or from a null-balancing system. Multiparameter systems incorporating measurements of temperature, salinity, and conductivity also are available. (See section on portable recording thermometers starting on page 26.)

The fixed water-temperature-measuring system (thermograph) used at continuous-recording stations should be stable and capable of sensing temperatures within 0.5°C for extended periods of time. The thermograph attachment on the Stevens A-35 water-stage recorder has been widely used at gaging sta-

tions (Moore, 1963). This instrument is accurate only within about 1°C, however. Temperature measuring systems incorporating a metallic resistance bulb are considered to be the best because they have a long-term accuracy of about 0.3°C. Thermistor and thermocouple sensors have an accuracy within the required limits, but they tend to shift in calibration with time. The temperature-measuring system can also be part of a multiparameter water-quality data-collection system (Cory, 1965; Anderson and others, 1970). Analog-recording systems provide a pen trace on a strip or circular chart, and digital recording systems produce a punched-paper or magnetic tape. (See p. 28.)

Site selection

When a water-temperature station is established, whether it is to be a recording or nonrecording station, care must be exercised to see that the site is suitable for observing water temperatures. Water-temperature records collected at gaging stations and at damsites provide for convenient access and operation but usually are not located on the basis of their suitability as temperature-measurement sites. The greatest problem at gaging stations is that temperature measurements are influenced by inflow from nearby upstream tributaries or reservoir releases. Water temperatures of outflow at dams are usually measured within the scroll case of one or more turbines, or at a gaging station a short distance downstream from the dam. Temperature data collected in the scroll case can be significantly higher than the average of the total outflow because of temperature stratification in the forebay, heat generated by turbulance, and heat conducted through the turbine shaft and dam.

Water-temperature stations should be located far enough downstream from tributaries or reservoirs to ensure that the waters at the station are completely mixed. Temperature profiles throughout the cross section at the proposed site should be made to test for horizontal and vertical homogeneity. (See page 33.) Checking the cross sectional distribution at just one season of the year

may not be sufficient. The greatest likelihood of heterogenity in a cross section occurs in the summer when flows are extremely low. At that time, depths are shallow, turbulent mixing is of minimum intensity, and localized heating of the water may occur. In the spring, cool tributary water derived from snowmelt may not become completely mixed with mainstem waters generally for long distances below the tributary confluence.

Large streams may flow through zones of different temperature regimes. In addition, water flowing through secondary passages where velocities are low, such as sloughs, may gain or lose more heat than the mainstem water thereby, creating temperature gradients at the points of reentry with the main stream. Because of such situations on large streams, it may be necessary to locate a water-temperature station at a site where temperature gradients exist. A special localized study may also dictate a site where gradients exist; however, these sites should be avoided whenever possible.

Some locations may require more than one temperature station to adequately define the mean cross-sectional temperature. It is recommended that two stations be installed in the cross section whenever the horizontal or vertical variation in the water temperature exceeds 2°C more than 5 percent of the time. Some locations may require a period of time to determine if two temperature stations are necessary; hence, it may be desirable to install two stations immediately to insure proper data collection. The second station can be removed if it is later determined that it is not required.

Sensor location

Sensors for water-temperature or two-parameter (water temperature and specific conductance) measuring systems are usually housed in a perforated pipe mounted directly in the streamflow. The conductor wire from the sensor to the recorder is shielded in a metal conduit or plastic pipe.

The sensor must be properly located in the stream channel if the temperature sensed is to be representative of the mean water temperature in the cross section. The sensor must be

located in flowing water, but it also must be adequately protected to minimize physical damage, it should not rest on the streambed, and it should not be in direct sunlight. Erroneous temperature registration may result if the sensor is exposed to air or becomes covered with silt or debris. Absorption of direct sunlight can cause the streambed of a shallow stream to be warmer than the water above it: hence, a sensor at the bed might register high. At a gaging station where both water temperature and stage records are collected, the sensor should not be located close to the stilling-well intake. Water in the gage well can be several degrees warmer or cooler than in the stream. Water leaving the gage well during a rapid drop in stage could cause a temporary error in the temperature record.

Sensors for multiparameter water-quality data-collection systems (including the temperature sensor) are housed in a flow-through chamber that receives a continuous flow from a submersible pump. The pumped flow rate must be sufficient to prevent water-temperature change. The pump may be mounted in the stream below the water surface by attaching it to a float arrangement, which rises and falls with the stage (Cory, 1965), or it may be mounted on a platform anchored to the streambed, as shown in figure 13 (Anderson and others, 1970). The float-type mounting is subject to damage by debris and ice. Divers equipped with scuba gear can place pumps on the bed; however, because this is expensive for installation and maintenance, the streambed-platform mounting is limited to wadable streams. Both types of mountings can be washed away.

Anderson, Murphy and Faust (1970) have used a stilling-well type of pump facility. (See fig. 14.) Pump servicing can be done on dry land except during extremely high water. The advantages of easy eccess and servicing with this type of pump facility are obvious; however, frequent cleaning of the stilling well and piping are necessary to remove sediment. High construction costs are an additional disadvantage. Existing structures, such as bridge piers or concrete bulkheads, also can be used to support a pumping facility. An installation of this type is shown in figure 15.

Special procedures

Assuming that the objective in measuring stream temperature is to collect data representing the stream's cross section, particular care has to be devoted to defining the mean and to verification that the data collected indeed represent the mean. At this time the reader should review the material on stream temperatures presented in the subsection on operation, maintenance, and calibration of instruments (p. 28-30), noting definitions of the terms "true stream temperature" (TST), "temperature near sensor" (TNS), and recorder temperature (TRC). The following paragraphs discuss in more detail the measurement and computation of mean temperature (TST).

The temperature distribution should be measured periodically throughout a section that is as close as possible to the temperature sensor in order to define any horizontal or vertical gradients. The required frequency for the cross-section measurements, usually is low at most stations where TST can be represented by a single water-temperature measurement, is dictated by such factors as tributary inflow, reservoir releases, climatic elements, and channel geometry. At stations where temperature gradients exist all or most of the time, data will be needed as often as practicable to accurately compute the discharge-weighted mean temperature in the cross section (TST) and relate it to TNS; however, time, money, and measurement procedures limit the surveillance activity.

Two methods can be used to obtain temperature distribution data at a cross section. The most common method consists of obtaining vertical profiles by lowering the temperature sensor to predetermined depths at each of several verticals across the section. At most locations, 15 to 30 temperature observations (5 depths at 3 to 6 verticals) will be adquate; however, more observations may be required in large streams where tributary and secondary-channel flow is not well mixed with main-stem flow. In the other method, the sensor is towed successively across the channel at several different predetermined depths. This method is the most satisfactory

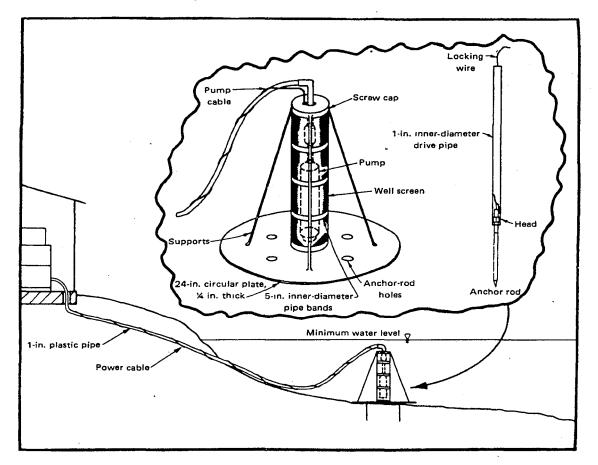


Figure 13.—Platform type of pump support. Platform is anchored by driven rods. (From Anderson and others, 1970, p. 267.)

for large channels. Once the temperature pattern is established at complex locations, the number of observations may be reduced by measuring at the most representative verticals in the cross section.

A stream cross section in which the observed temperature distribution varies over a 2.5°C range is shown in figure 16. The subsection lateral limits are positioned half way between each vertical. Normally, a location with a temperature range of this magnitude would not be selected for a temperature-measuring station, but the temperature-observation data from this cross section are ideal for demonstrating the cross-sectional computation of the average temperature, from the observations, the area-weighted mean temperature, and the discharge-weighted mean temperature.

The average temperature in the stream cross section (T_a) is the summation of the temperature observations (t_o) divided by the number of observations (n). The formula is

$$T_{\rm a} = \frac{\sum t_{\rm o}}{n}$$
 (8)

The area-weighted mean temperature in the stream cross section $(T_{\rm am})$ is the summation of the products of the individual subsection areas (a) and average temperatures $(t_{\rm a})$ divided by the total cross-sectional area (A). The formula is

$$T_{\rm am} = \frac{\sum (a t_{\rm a})}{A} \cdot \tag{9}$$

The discharge-weighted mean tempera-

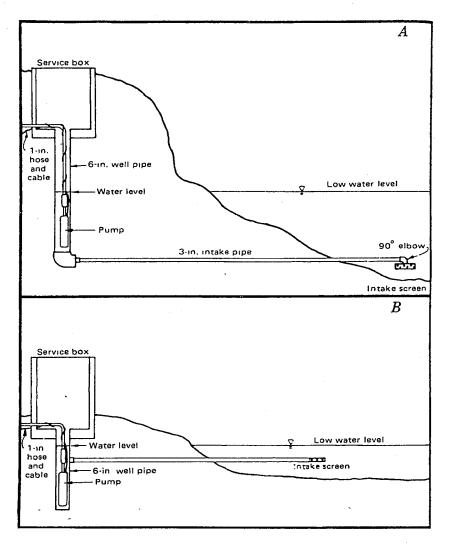


Figure 14 —Two examples of pumps supported within stilling wells. (From Anderson and others, 1970, p. 268.)

ture in the stream cross section $(T_{\rm qm})$ is the summation of the products of the individual subsection discharges (q) and average temperatures (t_a) divided by the total stream discharge (Q). The formula is

$$T_{\rm qm} = \frac{\sum (q \ t_{\rm a})}{Q} \ \cdot \tag{10}$$

An example of the computation of the crosssectional mean temperature of a stream by the three methods is shown in table 5. The computed means, based on the data from figure 16, are 11.10°C by the observation-averaging method, 10.82°C by the area-weighting method, and 10.76°C by the discharge-weighting method. Since the differences between the means computed by the three methods are less than the 0.5°C-instrument-accuracy requirement at most locations, as in the above example, the preferred method of computation may vary among data users; however, the discharge-weighted mean is considered to be the best method to use when discharge data is available. Discharge data is readily available at

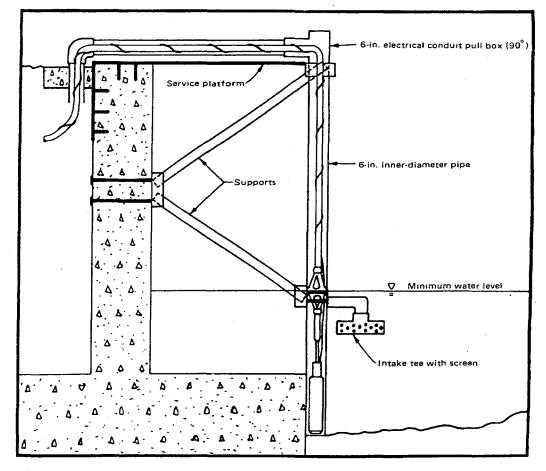


Figure 15.—Facility using bulkhead for pump support (From Anderson and others, 1970, p 269.)

temperature stations located at gaging sites, but at other locations discharge data must be obtained by measurements or indirect means. When the observation-averaging method is to be used, data should be collected at equal depth intervals rather than by equal numbers of samples. The equal-number sampling program, as shown in figure 16, biases the warmer, shallower areas.

Lakes and reservoirs

Objectives and accuracy requirements

Several applications are made of laketemperature data; consequently, several different accuracy standards must be met. In order to determine if a lake water is suitable for swimming, water skiing, or fish-propagation, temperature-data requirements to within 1°C accuracy certainly are adequate. Unless there are reasons to consider a particularly cold or warm inflow, these requirements also can be met by a measurement at a single place on the lake surface, often near a shore point.

However, for some kinds of computations, such as evaporation measurement, much more accurate measurements of lake-surface temperature are necessary. In order to accurately compute the vapor pressure and back-radiation terms of evaporation computation it is necessary to know mean lake-surface temperature within 0.5°C or better, and it also is necessary to consider areal variations over the surface. Energy-budget computations of heat storage in a lake usually require measuring temperature at points in a vertical to an accuracy of 0.1°C.

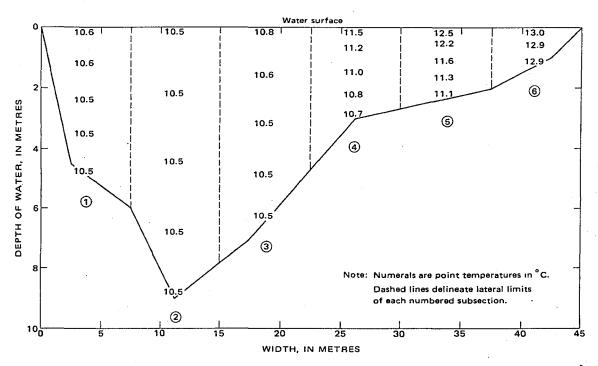


Figure 16.—Stream-temperature distribution in which the temperature varies 2.5° C throughout the cross section.

Table 5.—Computation of the cross-sectional mean temperature of a stream by three methods

Subsection No.	Mean depth (m)	Width (m)	Area (m²)	Discharge (m ⁴ /s)	Average temperature (°C)	Area times temperature	Discharge times temperature
1	4.3	7.5	32.2	13.5	10.54	339.39	142.29
2	7.8	7.5	58.5	34.7	10.50	614.25	364.35
3	6.4	7.5	48.0	26.4	10.58	507.84	279.31
4	3.4	7.5	25.5	12.3	11.04	281.52	141.31
5	2.4	7.5	18.0	7.7	11.74	211.32	90.40
6	1.2	7.5	9.0	2.7	12.93	116.37	34.91
Total Mean tempera-	••••	****	191.2	97.3	••••	2,070.69	1,052.57
ture in °C		••••	••••	. ••••	111.10	² 10.82	310.76

¹Average of temperature observations. ²Area-weighted mean ³Discharge-weighted mean.

Definition of mean lake temperature for evaporation computations or temperature modeling also requires a considerable degree of accuracy. Thermal stratification patterns must be measured to an accuracy of 0.1°C if such things as heat transfer through the thermocline are to be computed. On the other hand, if the only purpose of defining temperature at depth is to approximate a model or to

estimate reservoir discharge temperature, measurements to within 0.5°C may be suitable.

In some lakes it is possible to ignore areal variations, particularly those lakes which are roughly circular in shape and which do not have large littoral areas. However, in a long narrow reservoir or a very large lake, or in a lake with large shallow areas near the shore, considerable variations in water temperature from place to place may be found at the surface and at depth, and these factors must be considered. If temperature modeling is to be the objective, it is necessary to define the extent of areal variations. However, for evaporation computations by the energy-budget method, it is necessary only to measure temperatures at enough different places to determine mean temperatures to an accuracy of 0.1°C.

Selection of temperature measuring system

It is obvious that the type of measuring system to be used on a lake will depend upon the kind of data being sought, the purpose for which the data are to be applied, and the accuracy requirements of the data user. The following paragraphs rather briefly describe some of the systems that can be used for measurements at a lake surface and measurements at depth, both single observation and recording.

Measurements at the surface.—Simple observations at the lake surface by an observer can be done with a hand-held thermometer. A liquid-in-glass, bimetallic, or resistance-type thermometer will fill this need. The instrument should be immersed to a depth of from 1 to 5 centimetres, allowed to equilibrate, and read with the bulb or sensing unit in place.

When it is necessary to record temperature at the surface continuously, liquid-filled, thermocouple-, or thermistor-type thermometers can be used. If the instrument is installed on a raft that is anchored on a lake, the liquid-filled system is particularly well suited because its rather short probe lead will easily reach from the raft to the surface of the water. When surface temperature is measured at the face of the dam or on a pier at a reservoir that has a considerable stage fluctuation, either the resistance-type or thermocouple-electric thermometer systems will work better because long leads can be better accomodated.

Recording at depth.—When the temperature at various depths is to be recorded, such as to define thermal stratification, either

thermocouple-type therresistanceormometers need to be employed. Several types of switching arrangements can be provided to switch from sensors at one depth to another. Below the surface, diurnal or even day-to-day changes are relatively small. Therefore, if an instrument is being used that makes only single depth measurements at intervals, it can be programed to measure below the surface at 6-hour or greater intervals. Investigators should remember that a.c. electrical power usually cannot be supplied to a raft station and that battery power must be used. Solar panels can be fitted to the raft to extend battery life between recharging.

Single observations at depth.—With proper equipment, it is relatively easy to measure the temperature at different depths of a lake for one-time or survey-type observations. These are the types of measurements commonly used in reconnaissance studies or by hydrologists making thermal surveys for evaporation measurements. The resistance-type thermometer, either recording or nonrecording, can be lowered from the side of a boat and read rather quickly at different points in the vertical. These types of instruments either can be equipped with recorders or the dial readings can be written down.

The bathythermograph (B-T) can also accomplish the job of obtaining a temperature profile from top to bottom. The B-T simultaneously measures depth and temperature by pressure transducer and by metal or liquid-filled systems. Readings are scribed on a glass plate within the instrument and must be placed in a special viewer in order to be read. Accuracy generally is within 0.5°C or better.

Oceanographic techniques can be employed to make rather precise measurements of temperatures at depth in a lake. Reversing thermometers, which are mercury thermometers equipped with a special type of curved tube, will provide readings within 0.01°C. Although these instruments are extremely precise, they must be lowered into place and brought back to the surface for each depth at which a reading is made, or several reversing thermometers may be rigged to the same sampling line. For most uses, the addi-

tional cost and inconvenience of the reversing thermometer over the resistancetype or thermocouple thermometer is not necessary to obtain desired accuracy and is not warranted.

Temperature-stratification patterns in lakes during summer seasons will almost always have warm water overlying cold water. For this reason, the maximum-minimum thermometers can be used for single observations of temperature and depth. For example, if the temperature of a lake is 25°C at the surface and its temperature at a depth of 20 metres (66 ft) is desired, the maximumminimum thermometer can be zeroed and lowered to 20 metres (66 ft). After allowing time for the instrument to equilibrate, it can be brought to the surface, and the minimum temperature shown on the instrument can be assumed to be the temperature at depth of 20 metres (66 ft).

Site selection

No inflexible rule exists for deciding where to measure temperature on a lake surface. It is necessary to consider the shape of the lake surface, shape of the bottom, inflow and outflow patterns, accuracy requirements for the data, and prevailing wind patterns.

For most needs, surface temperature can be monitored at a single point. Generally, it is preferable to locate the monitoring instrument on a raft near the center of the lake; however, in a small lake with variable wind direction, the instrument could be mounted on a dam or at a shore installation. In a large lake, a multibasin lake, or one having a noticeable prevailing wind direction, it may be necessary to monitor temperature at more than one surface location.

When studying temperature distributions throughout a lake or reservoir, or sampling a lake for mean temperature for evaporation computations, it is generally recommended that at least 20 stations on the lake be considered. A common way of locating the stations is to divide the lake surface area into about 20 segments of about equal size and to locate one sampling station in approximately the center of each station. This will

provide 20 measurements at the surface and at shallow depths but will only provide a very few measurements at or near the maximum depth of the reservoir. This technique is in keeping with accuracy requirements because there is considerably greater areal variation in temperature at or near the surface than there is at great depth.

Although a minimum of 20 stations is recommended for most studies of variations in lake temperature, in some lakes considerably fewer will suffice. Crow and Hottman (1973) analyzed data from Lake Hefner (Oklahoma) and determined that the optimum number of stations is 5, and that increasing the number from 5 to 19 resulted in an increase of accuracy of evaporation measurement of only 1 percent.

Sensor location

The sketch in figure 17 shows a raft assembly equipped with instruments for measurement at the surface and at depth, and for measurement of temperature of bottom sediment. Surface temperature is measured by a liquid-filled system having a probe only about 2 metres long. The probe is fastened beneath the raft with a device to hold it within the top 10 centimetres of the water. This instrument, located as shown, will give measurements of surface temperature with 0.5°C and will record variations continuously.

Temperatures at 6 points below the surface in the vertical are best measured by a resistance-type recording thermometer. Lead length for this type of intrument is not a critical factor, and measurements at intervals of several hours are considered to be accurate enough.

Thermocouples are suited for use in the probe set in the bottom sediments of the reservoir. A switching arrangement must be provided to measure the different thermocouple voltages at different intervals. On the instrument shown, no thermocouple reference is necessary because the deepest probe in the sediment can be considered as the reference junction. The raft, as shown in figure 17, is anchored by two different

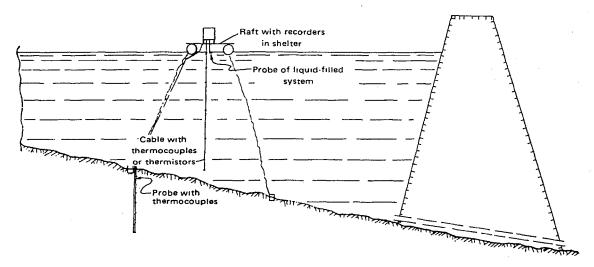


Figure 17.—Raft assembly for measuring temperature at the surface and at depth, and for measurement of temperature of bottom sediment in a lake.

anchors and anchor cables. This is necessary to avoid twisting and tangling of the wires for the depth- and sediment-temperature instruments. However, if only the surface-temperature measuring equipment is used on the raft, it may be possible to use only one anchor and anchor cable. It is desirable to include a piece of chain and swivel at the top end of the anchor cable, or a piece of chain between the anchor and anchor cable.

Equipment for measuring temperature can be mounted on the face of a dam in a manner somewhat similar to the way it is mounted on a raft. The sketch in figure 18 shows an arrangement by which a floating apparatus can be used to support a liquid-filled thermometer used to measure surface temperature only. Such an arrangement will satisfactorily provide a measure of temperature within the top few centimetres. A thermocouple or thermistor thermometer also can be mounted on the dam to measure temperature at several water depths. If there is considerable fluctuation in reservoir elevation, one or more of the sensors may be out of the water part of the time and be measuring air temperature. At a dam installation, prevailing winds may affect the data, and the temperature at the dam may not represent the mean at the surface or at different depths throughout the reservoir.

As mentioned previously, surface temperatures at a shore installation can be measured or some indication of temperature at depth can be gotten by setting instruments on a pier. Pier and shoreline installations should generally be avoided but under some circumstances may be used as the only resort. The largest potential problem of such an installation is caused by effects of shoreline currents and warming of water in littoral areas. In other words, data from a shoreline installation or from a shallow-water pier installation probably do not represent the conditions in the deeper parts of the lake.

Special procedures

Instrument calibration.—Calibration requirements for the purpose of measuring lake temperatures are very similar to calibration requirements for other uses. (See p. 28-30.) Resistance-type recording and non-recording instruments and liquid-filled systems should be compared with a high-grade mercury-in-glass thermometer. Resistance-type instruments used for temperature surveys should be calibrated at two points each time they are used and should have a complete range calibration at least twice a season. Liquid-filled recording systems should be checked against a mercury-in-glass

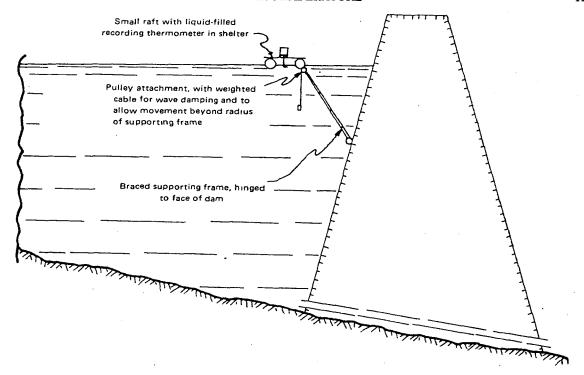


Figure 18 - Device to attach instrument raft at face of dam.

thermometer each time the chart is changed. Resistance or thermocouple units used to measure and record temperature at several depths should be compared with a profile measured with a nonrecording resistance-type thermometer.

Recording instruments located on a raft or on the face of a dam should be "calibrated" to check for comparison with the mean temperature in the lake. This can be done by a 20-point survey of surface temperatures or of temperatures at surface and at depth. If data from the survey indicate that the temperature at the recording station is consistently higher or lower than the mean over the lake surface, it may be necessary to consider other points of measurement. The problem caused by a nonrepresentative station location can be corrected either by moving the station, by adding additional stations, or by establishing (if possible) a calibration relationship between the measured values and true mean temperature.

Computing mean temperature.—Many

types of lake studies require that mean temperature of the water body be computed. These computations usually are made from the results of multiple-point surveys, as described earlier in this manual. Figure 19 shows part of a set of field notes from a survey of Gross Reservoir, Colo. Intervals of the depths of observations varied from 2.5 feet (0.76 m) near the surface to 20 feet (6.1 m) at greater depths. The far-right column of the note sheet has been used to show the mean temperature at each of the depths of observation.

Data from a thermal survey can be used to compute total heat storage by the relationship

$$\Theta = \int_0^H c T_z A_z dz, \qquad (11)$$

 Θ = heat storage in the lake above a uniform base temperature of 0° C,

H = total depth,

c = heat capacity of the water, usually

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Figure 19.—Part of a set of field notes from a temperature survey of Gross Reservoir, Colo.

assumed to be 1.0 calorie per °C per cm³,

 T_z = mean temperature over the horizontal cross-sectional area of the lake at a given level z, and

 A_z = area of the horizontal cross-section at a given level z.

Solution of the above equation usually is performed by dividing the lake into horizontal layers and totaling the products of mean temperature and water volume for each layer.

Figure 20 shows a printout of the computer computation of heat storage and mean temperature in Gross Reservoir for the thermal survey recorded in the notes in figure 19.

The example shown in figure 20 uses rather unorthodox units for convenience. For example, heat storage in each computation layer is in acre-feet times °C, and total heat in the reservoir is shown as 415,715 A-F × °C.

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Figure 20 —Printout of computation of heat storage and mean temperature in Gross Reservoir, Colo.

converted to 0.51278×10¹⁵ calories, or a mean the total heat (415,715 A-F × °C) by the storage of 30,775 cal/cm². Average volume of the reservoir (41,568 A-F).

The value of total heat in storage is shown | temperature of 10.00°C was found by dividing

Estuaries

Objectives and accuracy requirements

Water temperature in an estuary fluctuates annually, seasonally, diurnally, and spatially. Circulation and thermal patterns vary from estuary to estuary. (See p. 12.) Because of the complexities of the temperature gradients, a water-temperaturereporting station on an estuary is usually useful only for providing data for special localized studies, such as defining the effects of a heated discharge at a point within the estuary. Generally, the accuracy of each temperature reported should be within 0.5°C. The collection of synoptic data over tidal cycles is required to define thermal patterns near a reporting station or to define longitudinal temperature patterns within the estuary.

Selection of temperature measuring system

Any portable water-temperature-measuring system used in an estuary must be accurate to within 0.5°C and, because of the complex temperature gradients, be capable of responding to temperature changes rapidly enough to permit the measurement of complete vertical temperature profiles in a short time. Most systems that meet these requirements utilize a thermistor as the temperature-sensing element and use dry-cell batteries to supply power needs. Both recording and nonrecording types are available.

In estuarine studies, multiparameter systems incorporating measurements of temperature and conductivity are often used. Salinity data, determined from the temperature and conductivity data, facilitate the analysis of estuary circulation patterns. In the Columbia River estuary, a temperatureconductivity-measuring system and velocity system for measuring velocity from a moving boat (Prych and others, 1967) was used to rapidly define velocity, temperature, and salinity profiles throughout the total depth. Outputs from the sensors were recorded on magnetic tape with a system that consisted of a scanning voltmeter coupled to a tape unit. This magnetic-tape data-acquisition system permitted automatic data

handling but is bulky and requires a 110-volt electricity supply.

The fixed water-temperature-measuring system (thermograph) used at continuous recording stations should be stable and capable of sensing temperatures within 0.5°C for extended periods of time. Temperature-measuring systems incorporating a metallic resistance-bulb sensor are considered to be the best, and such systems can also be part of a multiparameter water-quality data-collection system. (See p. 32, under "Streams.")

Site selection

Most estuary water-temperature stations are located at special study sites, and the instruments are mounted on existing structures. For water temperatures at a station to most represent the thermal patterns in an estuary, the station should be located in a central location where the flow is relatively deep and fast. Tidal flats and other areas where velocities and depths are low exhibit the greatest diurnal and wind-induced temperature fluctuations (p. 13).

Sensor location

Sensors for water-temperature or two-parameter (water temperature and specific conductance) measuring systems are usually housed in a perforated pipe mounted directly in the water, whereas sensors for multiparameter water-quality data-collection systems (including the temperature sensor) are most often housed in a flow-through chamber which receives a continuous supply of water from a submersible pump. The proper placement of the sensor and (or) pumping systems are described in the section on streams. (See p. 32-33.)

Vertical temperature gradients can be defined with multisensor or multipump-intake systems at several points in the vertical. Anderson, Murphy, and Faust (1970) used motor-operated ball valves to direct the inflowing sample from different points in the depth to the sensor unit. Cory and Nauman (1968) used a multiparameter system that had a floating pump with an intake 1 foot below

the water surface and a temperature sensor fixed 1 foot above the bed. When multisensor or multipump-intake systems are used, digital recorders coupled to programable servo-drive mechanisms are used for recording each sensor output. (See p. 28.)

Special procedures

Temperature sensors are nearly trouble free; however, in the saltwater environment of an estuary, continuous maintenance is required to insure proper operation of recorders and other types of sensors (Nauman and Cory, 1970). Condensation of water vapor in the marine environment causes a salt film to deposit on all equipment. The salt accelerates corrosion of mechanical parts and electrical contacts, thereby creating mechanical binding and increased electrical resistance (Bromberg and Carames, 1970).

Observers should follow the same maintenance and calibration procedures as given in the section on streams (p. 33). An estuary station will require more frequent servicing, including the washing of sensors with freshwater to prevent the buildup of salt deposits, to assure the collection of continuous and accurate temperature data. The complex temperature gradients prohibit the determination of the mean cross-sectional water temperature in most estuaries; however, the thermal patterns near the reporting station may be defined by the collection of synoptic profile data over tidal cycles.

Ground water

Objectives and accuracy requirements

As with streams, lakes, and estuaries, the accuracy required for ground-water-temperature measurements depends upon the intended use of the data. If the measurements are made to determine suitability of the water for domestic, municipal, or industrial use, an accuracy of 1°C is adequate. A standard laboratory mercury thermometer that is accurate to 0.5°C can be used for this purpose. Other more sophisticated instru-

mentation generally used in ground-water studies is usually accurate to less than 0.1°C (Sass and others, 1971).

In many studies that involve determining rate and direction of ground-water movement from temperature data, the accuracy of the absolute temperature is not of great importance, but a high level of precision is needed to accurately measure temperature gradients. It is possible under ideal conditions to measure water temperature with a precision of 0.0005°C. However, a practical limit for the precision of water temperatures measured in boreholes has been found to be about 0.01°C (Sorey, 1971). This appears to be adequate for most purposes. If higher precision is required, it may be attainable by using extreme care both in calibration of the temperature detector and in application to field use.

Selection of temperature measuring system

The kind of measuring system to use will depend upon the problem at hand, the accuracy requirements, the frequency of sampling, and the location of the data points. In some instances, it may be desirable to install a temperature recorder. In other instances, a single measurement at a given location is adequate.

There are several different ground-water temperature detectors, including, for example, mercury thermometers, thermocouples, and resistance thermometers. The thermistor, and type of resistance thermometer, is frequently used in borehole thermometry. Perhaps the simplest and least expensive equipment for measuring groundwater temperature with accuracy sufficient for many purposes is the mercury thermometer. A standard laboratory partial-immersion mercury thermometer can be used to measure the temperature of water discharging from wells or springs.

A good device for temperature measurements just below the water table in boreholes or wells is the maximum-minimum thermometer (p. 24), which costs only a few dollars, is readily available, and is easy to use. It is especially useful for reconnaissance

work, in which an accuracy of about 0.5°C is adequate and only one or two readings in a well are needed. One disadvantage is that continual raising and lowering of the thermometer to get readings at different depths becomes tedious and tends to disrupt the thermal stratification of water in the well. The possibility of thermometer breakage presents a pollution hazard. In addition, thermometers of this type are pressure sensitive, so measurements taken at depth may be significantly in error. To avoid this effect, the thermometers can be placed in a pressure tube, sealed to prevent entrance of water (Birch, 1947.)

A commonly used system for boreholetemperature measurements consists of a multiconductor cable and hoist, a probe that contains a temperature transducer, and a resistance-measuring system. The multiconductor cable and hoist can be hand or power driven, depending upon the depth to which temperature measurements are to be made. The location of the probe below land surface is obtained from a depth indicator located on the reel. Temperature transducers usually consist of a number of thermistor beads encased in a probe some 6 inches (15 cm) in length and 1 inch (2.54 cm) in diameter. The thermistors are arranged to give maximum sensitivity and preferably, but not necessarily, a linear output. The linear output allows one to read the temperature directly in degrees Celsius. The thermistors are semiconductors which have a large temperature coefficient of resistance (about percent/°C). It is this fact which is the principle behind their use as temperature detectors; hence, some variation of the Wheatstone bridge is often used to measure the resistance across the thermistors. Details of a typical arrangement for temperature measurement in wells are given by Sass and others (1971). Units adequate for most purposes are available commercially at a cost of about \$200 (Olmsted, oral commun., 1973).

The logging unit just described has advantages over the maximum-minimum thermometer in that many more measurements can be taken in a shorter period of time with a much higher degree of precision. Thermal stratification of water within the

well is less likely to be upset as the probe is lowered slowly and is not pulled back to the surface to get a reading.

The amount of time needed to attain a stable reading at any given point depends upon the distance from the surface, where the temperature gradient is steepest, and upon the heat capacity and initial temperature of the probe. Usually, 1 to 3 minutes is adequate.

A thermistor probe device that may be used to provide a continuous log of temperature with depth is also available (Keys and Brown, 1975). The device detects temperature-related resistance changes in the thermistor through a voltage-controlled oscillator. The pulses may be integrated by a rate meter to provide an analog record of pulse counter. The probe used by Keys and Brown is electrically and thermally stable, and they were able to repeat temperature measurements in a borehole with 0.02°C.

Site selection

Ground-water temperatures may be measured in unused wells, pumping wells, discharging springs, mines, or any other accessible location, depending on the purpose of the measurements. Usually, for reasons of cost, the hydrologist is restricted to collecting data at existing sites or installations.

If a temperature profile in a well is to be measured to study slowly moving ground water, considerable care must be taken in selecting the observation well. It is preferable that the well be idle for a number of vears and that it not be disturbed in any way. There should not be any circulation within the well bore, such as from one screened interval to another, or along the outside of the casing. Wells that have been backfilled with cement should be avoided because cement, upon curing, generates heat for years after installation. This generated heat may be of sufficient magnitude to upset the local thermal gradient. A metal well casing may distort the local temperature profile because of its high thermal conductivity. Another important consideration is the well diameter, because thermal gradients will induce vertical convection in the fluid within the well bore of large-diameter wells (Sammel, 1968).

Preferably, the wells should be 2 inches (50.08 cm) or less in diameter for a temperature profile.

Despite the apparent violation of many of these considerations, Sorey (1971) obtained satisfactory results from many wells. Just the same, it is wise to keep these points in mind when planning a ground-water-temperature study.

More reliable results probably can be obtained by using wells especially designed for temperature measurements. Again the design will depend somewhat upon the purpose for which the data are to be used. For most studies, wells should be drilled below the depth of seasonal-temperature variation as well as below it. (Such data may provide useful information, such as thermal diffusivity of the near-surface materials and whether local ground-water recharge is taking place.) A plastic pipe with no perforations, either sealed at the bottom or fitted with a well point and a screen, may be used. Plastic has the advantage that its thermal conductivity more closely represents that of the natural porous medium than does steel. A well point and screen are used if it is desired to measure water levels.

The annulus between the well and casing should be backfilled with a material other than cement that prevents the circulation of water. A soil that contains clay may bridge and cause gaps in the annulus.

If the casing is sealed at the bottom, it is filled with water to the desired level. This may be above the water table if measurements of temperature in the unsaturated zones are desired.

A newly drilled hole usually upsets the thermal regime in the vicinity of the well because of the drilling process. This may result in the generation of heat by friction or, in a thermal area, may cool rather than heat the materials near the hole by rapid circulation of the drilling fluid. It is best to monitor the temperature profile after completion of the drilling to determine when it has come into thermal equilibrium with its surroundings. This may take from days to months, depending upon the thermal properties of the materials and the degree by which the thermal regime is upset.

Sensor location

When measuring the temperature of discharging wells or springs, placement of the sensor generally presents little problem. Care must be taken to avoid extraneous effects, such as heat exchange between water and the pump or the atmosphere (Schneider, 1962).

When taking a temperature profile in a well, the sampling interval must be decided upon. This depends primarily upon the thermal gradient in the well. Steeper gradients require a shorter distance between measuring points. A 10-foot (3-m) interval will provide sufficient data to accurately represent the thermal profile in most instances, but, if it is desired to relate the thermal profile with lithology, a 2-foot (0.6-m) interval may be necessary.

The depth to which temperature measurements should be made depends upon requirements of the problem. To be in the range of the geothermal gradient undisturbed by seasonal-temperature fluctuations, measurements should be made below about 20 m (66 ft). Above about 10 m (33 ft), the influence of surface temperature produces high thermal gradients that cause instability in all but very small diameter wells.

Special procedures

Mercury thermometers require little maintenance, but thermistor temperature-measuring systems require considerably more. Batteries, electronic equipment, and electrical connections in these systems invariably require checking to insure that they are in good working order. The thermistor probes should be checked to see if their response has changed because of thermal shock, aging, or other factors. The probes should be checked frequently for leaks, as water will make a thermistor inoperative. See additional material in the subsection on operation, maintenance, and calibration of instruments (p. 28–30).

Commercially available temperaturedetecting units are calibrated at the factory. However, precision required in ground-watertemperature measurements is often such that recalibration is necessary. The systems used by Sorey (1971) were calibrated with platinum resistance and mercury thermometers to a precision of 0.005°C. Thermistor probes tend to be very stable with passage of time if properly cared for. They have drift rates of about 0.01°C/yr or less and, hence, need recalibration only occasionally.

Part 3. Data Presentation

Observation and monitoring schemes described in earlier parts of this report provide new data in a relatively crude form. Single observations by an observer or a field-man may be penciled notes in a fieldbook or on observer forms. Charts from analog-type recorders are simply an inked or scribed line on a piece of paper. Digital recorders will produce either a magnetic or a punched tape, which is difficult to read or totally unintelligible and unusable without special processing.

On the other hand, the user of temperature data requires information in a more usable and more interpretable form. Publication of raw data is common and must be in a form that is suitable to a rather wide variety of users. Research data often have special format needs, but, again, the purpose is to provide the information in a form that it can be put to the best use.

This section presents information on the reduction of raw field data, application of corrections, and forms of publication.

Reduction and correction

An ideal temperature-measuring system would produce data ready to publish without exerting additional effort. However, considering the state of the art of instrumentation today, this dream is probably not to be realized for some time.

The job of reducing temperature data breaks down into two basic operations—removal of error caused by imperfect equipment and conversion of the recorded instrument output to numeric values. The procedures differ with types of equipment, but the following discussion is designed to provide some general guidelines.

Correcting instrument error

Perfectly operating instruments that are serviced by a careful operator generally require very little correction in their record. Realistically, however, there are errors that creep into all the records, owing to drift of the instrument or to failure of different parts of the mechanism, such as the timing devices. The most common error probably is drift between servicing. An instrument may be left operating in good calibration but will drift out of calibration over several days of operation. This is the reason that it is important to make a calibration check of an instrument before it is readjusted.

Figure 21 shows two examples of the type of error that may be found when an instrument is calibrated. Constant error through the calibration range is most common, with a displacement of the same number of degrees at all temperatures. Nonuniform error is not so common but is found frequently enough that the two-point calibration is justified. (See p. 28.) Not shown, but also possible, is a curvilinear calibration whereby an instrument is nearly in calibration over part of its range, but deviates significantly in another part. This type of error is rather infrequent and, therefore, generally does not justify calibrating at more than two points in the instrument range.

Corrections can be applied to the records of analog recorders at the same time the records are reduced. If a constant error of 2°C is found at the end of a 2-week period, and if the instrument was in adjustment at the beginning of the period, the 2°C error should be prorated over time, in increments of 0.5°C. Nonuniform error over the calibration range is a little more difficult to correct, and the correction usually is best applied by assuming a constant rate of drift at each end of the calibration curve. For example, if the nonuniform error shown in figure 21 developed over a period of 2 weeks, the 2°C error at 15°C could be assumed to have been 1°C at the end of the first week.