

Division of Environment
Curtis State Office Building
1000 SW Jackson St., Suite 400
Topeka, KS 66612-1367



Phone: 785-296-1535
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www.kdheks.gov

Lee A. Norman, M.D., Secretary

Laura Kelly, Governor

January 29, 2021

Bonner Springs, City of
Charles Staples
PO Box 38
Bonner Springs, KS 66012

RE: Kansas Public Notice No. KS-Q-21-5
Kansas Water Pollution Control Permit
Permit No. I-KS06-PO07
Bonner Springs Water Treatment Plant

Dear Permittee:

The enclosed public notice and draft permit pertain to the referenced pending Kansas Water Pollution Control Permit and Authorization to Discharge under the National Pollutant Discharge Elimination System (NPDES).

Regulations require this department to issue a public notice to inform interested persons of the agency's intent to issue a Kansas/Federal Water Pollution Control Permit. The notice allows a 30-day period for comment by the applicant or other interested parties. If response to the notice indicates significant interest, a public hearing may be held. Please post the draft permit and the public notice in a conspicuous public place in your place of business (if a private business) or other public building (if a governmental entity) until the Comments Due Date identified in the public notice.

Also, please note that if the permit requires routine monitoring and reporting, the table under section A will contain a new term called "EDMR code". This term stands for Electronic Discharge Monitoring Report and is an addition to the permits to allow all permittees, in the future, to report the discharge monitoring report data electronically instead of on paper.

Any comments you have regarding the proposed permit should be sent to this office. If you have any questions, please contact me at (785) 296-5513.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Beezhold".

Michael Beezhold
Permits & Compliance

NE - District
SLC- Permit File

Kansas Permit No.: I-KS06-PO07

Federal Permit No.: KS0099791

KANSAS WATER POLLUTION CONTROL PERMIT AND
AUTHORIZATION TO DISCHARGE UNDER
THE NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM

Pursuant to the Provisions of Kansas Statutes Annotated 65-164 and 65-165, the Federal Water Pollution Control Act as amended, (33 U.S.C. 1251 et seq; the "Act"),

Owner: City of Bonner Springs

Owner's Address: P.O. Box 38
Bonner Springs, Kansas 66012

Facility Name: Water Treatment Plant
12401 Kaw Drive
Bonner Springs, Kansas 66012

Outfall Legal: SW $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 28, Township 11S, Range 23E
of Wyandotte County, Kansas

Feature Name	Latitude	Longitude
Facility Center	39.061797	-94.868696
Outfall 001A1	39.060901	-94.867867

Receiving Stream: Kansas River

Basin: Kansas River Basin

DRAFT

is authorized to discharge from the water treatment facility described herein, in accordance with effluent limitations and monitoring requirements as set forth herein.

This permit is effective _____, supersedes the previously issued Water Pollution Control permit I-KS06-PO07, and expires _____.

FACILITY DESCRIPTION:

This is a 1.44 MGD public water treatment plant that treats and removes iron and manganese from well water, using oxidants and high-pressure filtration. Chemicals used in the treatment process include chlorine, sodium fluoride, potassium permanganate, polymers, phosphates, ammonium sulfate and zinc orthophosphate for corrosion control. Sodium Bisulfite is added to the settling tank to reduce the chlorine residual. About 0.1 MGD of filter backwash and filter-to-waste water flows into a 115,000-gallon nominal capacity above ground settling tank. After settling, the tank contents are decanted, and the clear supernatant is discharged to the Kansas River via Outfall 001A1. The residual wastewater with the settled solids is drained into the city sanitary sewer.

Secretary, Kansas Department of Health and Environment

Date

A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in this permit. The effluent limits shall become effective on the dates specified herein. Such discharges shall be controlled, limited, and monitored by the permittee as specified. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The initial reporting period shall begin _____ and end _____. Each consecutive three-month period thereafter shall constitute a reporting period. Monitoring reports shall be submitted on or before the 28th day of January, April, July, and October. In the event no discharge occurs, written notification is still required.

Effective Date	<u>EFFLUENT LIMITS</u>	<u>MONITORING REQUIREMENTS</u>	
	Final Limits Upon Issuance	Measurement Frequency	Sample Type
<u>Outfall 001A1 (EDMR code: EFF001A1) - Wastewater from backwash settling tank;</u>			
Total Residual Chlorine* Daily Maximum - ug/l	122*	Once Weekly	Grab
Total Suspended Solids Daily Maximum - mg/l	100	Once Monthly	Grab
pH - Standard Units	6.0-9.0	Once Monthly	Grab

* Permittee shall conduct testing for total chlorine residual according to the methods prescribed in 40 CFR Part 136. The current acceptable quantification level for total residual chlorine in wastewater is 100 micrograms/L.

B. STANDARD CONDITIONS

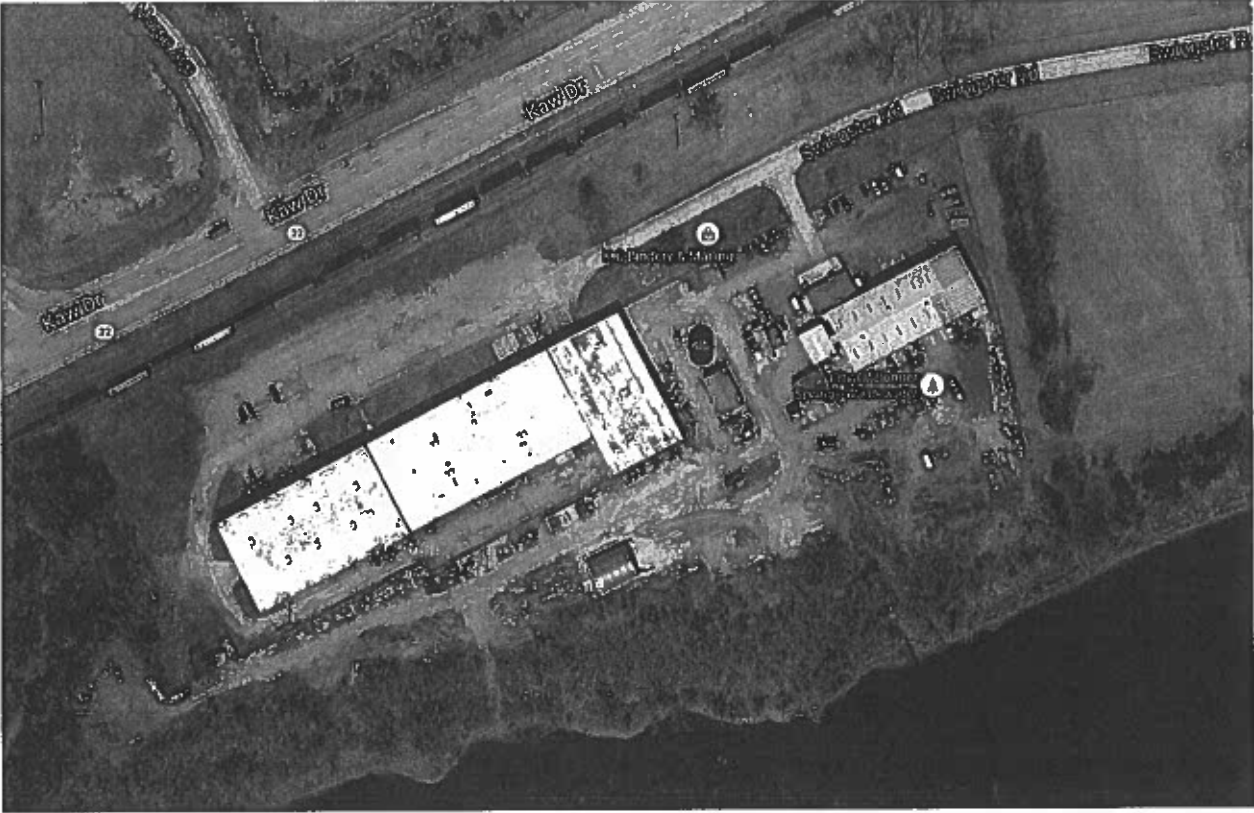
In addition to the specified conditions stated herein, the permittee shall comply with the attached Standard Conditions dated August 1, 2010.

C. SCHEDULE OF COMPLIANCE

None

D. SUPPLEMENTAL CONDITIONS

None



Bonner Springs Water Treatment Plant
Bonner Springs, Kansas
I-KS06-PO07

STANDARD CONDITIONS FOR
KANSAS WATER POLLUTION CONTROL AND
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS

1. Representative Sampling and Discharge Monitoring Report Submittals:

- A. Samples and measurements taken as required herein shall be representative of the quality and quantity of the monitored discharge. Test results shall be recorded for the day the samples were taken. If sampling for a parameter was conducted across more than one calendar day, the test results may be recorded for the day sampling was started or ended. All samples shall be taken at the locations designated in this permit, and unless specified, at the outfall/monitoring location(s) before the wastewater joins or is diluted by any other water or substance.
- B. Monitoring results shall be recorded and reported on forms acceptable to the Division and postmarked no later than the 28th day of the month following the completed reporting period. Signed and certified copies of these, prepared in accordance with KAR 28-16-59, and all other reports required herein, may be FAXed to 785.296.0086, e-mailed as scanned attachments to dmr4kdhe@kdheks.gov, or sent by U.S. mail to:

Kansas Department of Health & Environment
Bureau of Water-Technical Services Section
1000 SW Jackson Street, Suite 420
Topeka, KS 66612-1367

2. Definitions:

- A. Unless otherwise specifically defined in this permit, the following definitions apply:
1. The "Daily Maximum" is the total discharge by weight or average concentration, measurement taken, or value calculated during a 24-hour period. The parameter, pH, is limited as a range between and including the values shown.
 2. The "Weekly Average" is the arithmetic mean of the value of test results from samples collected, measurements taken or values calculated during four monitoring periods in each month consisting of calendar days 1-7, 8-14, 15-21 and 22 through the end of the month.
 3. The "Monthly Average", other than for E. coli bacteria, is the arithmetic mean of the value of test results from samples collected, measurements taken or values calculated during a calendar month. The monthly average is determined by the summation of all calculated values or measured test results divided by the number of calculated values or test results reported for that parameter during the calendar month. The monthly average for E. coli bacteria is the geometric average of the value of the test results from samples collected in a calendar month. The geometric average can be calculated by using a scientific calculator to multiply all the E. coli test results together and then taking the nth root of the product where n is the number of test results. Non-detect values shall be reported using the less than symbol (<) and the minimum detection or reportable value. To calculate average values, non-detects shall be defaulted to zero (or one for geometric averages). Greater than values shall be reported using the greater than symbol (>) and the reported value. To calculate average values, the greater than reported value shall be used in the averaging calculation.
- B. A "grab sample" is an individual sample collected in less than 15 minutes. A "composite sample" is a combination of individual samples in which the volume of each individual sample is proportional to the flow, or the sample frequency is proportioned to the flow rate over the sample period, or the sample frequency is proportional to time.
- C. The terms "Director", "Division", and "Department" refer to the Director, Division of Environment, Kansas Department of Health and Environment, respectively.
- D. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of an in-plant diversion. Severe property damage does not mean economic loss caused by delays in production.
- E. "Bypass" means the intentional diversion of waste streams from any portion of the treatment facility.

3. **Schedule of Compliance:** No later than 14 calendar days following each date identified in the "Schedule of Compliance," the permittee shall submit via mail, e-mail or fax per paragraph 1.B above, either a report of progress or, in the case of specific action being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements, or, if there are no more scheduled requirements, when such noncompliance will be corrected.
4. **Test Procedures:** All analyses required by this permit shall conform to the requirements of 40 CFR Part 136, unless otherwise specified, and shall be conducted in a laboratory accredited by the Department. For each measurement or sample, the permittee shall record the exact place, date, and time of measuring/sampling; the date and time of the analyses, the analytical techniques or methods used, minimum detection or reportable level, and the individual(s) who performed the measuring/sampling and analysis and, the results. If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved procedures, the results shall be included in the Discharge Monitoring Report form required in 1.B. above. Such increased frequencies shall also be indicated.
5. **Change in Discharge:** All discharges authorized herein shall be consistent with the permit requirements. The discharge of any pollutant not authorized by this permit or of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of this permit. Any anticipated facility expansions, production or flow increases, or production or wastewater treatment system modifications which result in a new, different, or increased discharge of pollutants shall be reported to the Division at least one hundred eighty (180) days before such change.
6. **Facilities Operation:** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the requirements of this permit and Kansas and Federal law. Proper operation and maintenance also include adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the requirements of this permit. The permittee shall take all necessary steps to minimize or prevent any adverse impact to human health or the environment resulting from noncompliance with any effluent limits specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. When necessary to maintain compliance with the permit requirements, the permittee shall halt or reduce those activities under its control which generate wastewater routed to this facility.
7. **Incidents:**

"Collection System Diversion" means the diversion of wastewater from any portion of the collection system.

"In-Plant Diversion" means routing the wastewater around any treatment unit in the treatment facility through which it would normally flow.

"In-Plant Flow Through" means an incident in which the wastewater continues to be routed through the equipment even though full treatment is not being accomplished because of equipment failure for any reason.

"Spill" means any discharge of wastewater, sludge or other materials from the treatment facility other than effluent or as more specifically described by other "Incidents" terms.

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance or anticipated noncompliance with permit effluent limits because of factors beyond the reasonable control of the permittee, as described by 40 C.F.R. 122.41(n).
8. **Diversions not Exceeding Limits:** The permittee may allow any diversion to occur which does not cause effluent limits to be exceeded, but only if it also is for essential maintenance to assure efficient operation. Such diversions are not subject to the Incident Reporting requirements shown below.
9. **Prohibition of an In-Plant Diversion:** Any in-plant diversion from facilities necessary to maintain compliance with this permit is prohibited, except: (a) where the in-plant diversion was unavoidable to prevent loss of life, personal injury, or severe property damage; (b) where there were no feasible alternatives to the in-plant diversion, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime and (c) the permittee submitted a notice as required in the Incident Reporting paragraph below. The Director may approve an anticipated in-plant diversion, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above.

10. **Incident Reporting:** The permittee shall report any unanticipated collection system diversion, in-plant diversion, in-plant flow through occurrences, spill, upset or any violation of a permitted daily maximum limit within 24 hours from the time the permittee became aware of the incident. A written submission shall be provided within 5 days of the time the permittee became aware of the incident. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. An Incident Report form is available at www.kdheks.gov/water/tech.html.

For an anticipated incident or any planned changes or activities in the permitted facility that may result in noncompliance with the permit requirements, the permittee shall submit written notice, if possible, at least ten days before the date of the event.

For other noncompliance, the above information shall be provided with the next Discharge Monitoring Report.

11. **Removed Substances:** Solids, sludges, filter backwash, or other pollutants removed in the course of treatment of water shall be utilized or disposed of in a manner acceptable to the Division.
12. **Power Failures:** The permittee shall provide an alternative power source sufficient to operate the wastewater control facilities or otherwise control pollution and all discharges upon the loss of the primary source of power to the wastewater control facilities.
13. **Right of Entry:** The permittee shall allow authorized representatives of the Division of Environment or the Environmental Protection Agency upon the presentation of credentials, to enter upon the permittee's premises where an effluent source is located, or in which are located any records required by this permit, and at reasonable times, to have access to and copy any records required by this permit, to inspect any facilities, monitoring equipment or monitoring method required in this permit, and to sample any influents to, discharges from or materials in the wastewater facilities.
14. **Transfer of Ownership:** The permittee shall notify the succeeding owner or controlling person of the existence of this permit by certified letter, a copy of which shall be forwarded to the Division. The succeeding owner shall secure a new permit. This permit is not transferable to any person except after notice and approval by the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.
15. **Records Retention:** Unless otherwise specified, all records and information resulting from the monitoring activities required by this permit, including all records of analyses and calibration and maintenance of instruments and recordings from continuous monitoring instruments, shall be retained for a minimum of 3 years, or longer if requested by the Division. Biosolids/sludge records and information are required to be kept for a minimum of 5 years, or longer if requested by the Division. Groundwater monitoring data, including background samples results, shall be kept for the life of the facility regardless of ownership.
16. **Availability of Records:** Except for data determined to be confidential under 33 USC Section 1318, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential. Knowingly making any false statement on any such report or tampering with equipment to falsify data may result in the imposition of criminal penalties as provided for in 33 USC Section 1319 and KSA 65-170c.
17. **Permit Modifications and Terminations:** As provided by KAR 28-16-62, after notice and opportunity for a hearing, this permit may be modified, suspended or revoked or terminated in whole or in part during its term for cause as provided, but not limited to those set forth in KAR 28-16-62 and KAR 28-16-28b through g. The permittee shall furnish to the Director, within a reasonable amount of time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish upon request, copies of all records required to be kept by this permit. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
18. **Toxic Pollutants:** Notwithstanding paragraph 17 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified at such effluent standards) is established under 33 USC Section 1317(a) for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition. Nothing in this permit relieves the permittee from complying with federal toxic effluent standards as promulgated pursuant to 33 USC Section 1317.

19. **Administrative, Civil and Criminal Liability:** The permittee shall comply with all requirements of this permit. Except as authorized in paragraph 9 above, nothing in this permit shall be construed to relieve the permittee from administrative, civil or criminal penalties for noncompliance as provided for in KSA 65-161 et seq., and 33 USC Section 1319.
20. **Oil and Hazardous Substance Liability:** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under 33 USC Section 1321 or KSA 65-164 et seq. A municipal permittee shall promptly notify the Division by telephone upon discovering crude oil or any petroleum derivative in its sewer system or wastewater treatment facilities.
21. **Industrial Users:** A municipal permittee shall require any industrial user of the treatment works to comply with 33 USC Section 1317, 1318 and any industrial user of storm sewers to comply with 33 USC Section 1308.
22. **Property Rights:** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights nor any infringements of or violation of federal, state or local laws or regulations.
23. **Operator Certification:** The permittee shall, if required, ensure the wastewater facilities are under the supervision of an operator certified by the Department. If the permittee does not have a certified operator or loses its certified operator, appropriate steps shall be taken to obtain a certified operator as required by KAR 28-16-30 et seq.
24. **Severability:** The provisions of this permit are severable. If any provision of this permit or any circumstance is held invalid, the application of such provision to other circumstances and the remainder of the permit shall not be affected thereby.
25. **Removal from Service:** The permittee shall inform the Division at least three months before a pumping station, treatment unit, or any other part of the treatment facility permitted by this permit is to be removed from service and shall make arrangements acceptable to the Division to decommission the facility or part of the facility being removed from service such that the public health and waters of the state are protected.
26. **Duty to Reapply:** A permit holder wishing to continue any activity regulated by this permit after the expiration date, must apply for a new permit at least 180 days prior to expiration of the permit.

**KDHE
NPDES PERMIT
STATEMENT OF BASIS**

Prepared by:	Steve Caspers	Kansas Permit No.:	I-KS06-PO07
Date:	January 7, 2021	Federal Permit No.:	KS0099791
Facility Name:	Bonner Springs Water Treatment Plant	City:	Bonner Springs
Legal Description:	SW 1/4 of Sec 28, T11S, R23E	State:	Kansas
County:	Wyandotte	Zip Code:	66012

Proposed

The proposed action consists of re-issuing the above referenced NPDES permit. The primary change was replacing the TRC limit.

Certification Statement

The requirements of this permit are pursuant to the Surface Water Quality Standards K.A.R. 28-16-28 and appropriate Federal regulations.

Facility Description

This is a 1.44 MGD public water treatment plant that treats and removes iron and manganese from well water, using oxidants and high-pressure filtration. Chemicals used in the treatment process include chlorine, sodium fluoride, potassium permanganate, polymers, phosphates, ammonium sulfate and zinc orthophosphate for corrosion control. Sodium thiosulfate is added to the settling tank to reduce the chlorine residual. About 0.1 MGD of filter backwash and filter-to-waste water flows into a 115,000-gallon nominal capacity above ground settling tank. After settling, the tank contents are decanted, and the clear supernatant is discharged to the Kansas River via Outfall 001A1. The residual wastewater with the settled solids is drained into the city sanitary sewer.

Receiving Stream

Outfall 001A1 discharges to the Kansas River. The Kansas River is a classified water body, pursuant to K.A.R. 28-16-28 and is designated for special aquatic life support, public water supply, irrigation, livestock watering, domestic and Industrial supply, food procurement, groundwater recharge and primary contact recreation, by default. The Kansas River is listed on the 303(d) list of impaired waters for total suspended solids. Therefore, the permittee will be required to meet a TSS limit. In addition, a TMDL has been written for this stream segment (HUC:10270104) for total phosphorus, e-coli bacteria and impairment of stream quality, based on macrobiotic indices, due to sediment impacts. Since there is no reasonable potential for this facility to discharge e-coli or biologicals, no additional monitoring will be required for these impairments. In addition, since historical data for phosphorus showed low levels of phosphorus, the permittee will not be required to monitor for this pollutant as well.

Proposed Effluent Limitations - Outfall 001A1:

Total Residual Chlorine: A daily maximum limit of 122 ug/l was determined based on updated water quality calculations. TRC will need to be *monitored* on a *weekly* basis.

Total Suspended Solids (TSS): The permittee will be required continue to *monitor* TSS on a *monthly* basis and meet a technology/Best Professional Judgment based permit limit of 100 mg/l, as before.

pH: Limits of 6.0 – 9.0 was continued in the permit and will need to be *monitored* on a *monthly* basis, as before.

Proposed Effluent Limitations - Outfall 001A1 - Continued:

Flow: The permittee will continue to be required to monitor for this parameter on a *monthly* basis, based on Best Professional Judgment (BPJ).

Phosphorus: Since historical monitoring data has shown this facility has discharged low levels of this pollutant, it was removed from the permit, during the previous permit cycle.