

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT

ANAMOSA STATE PENITENTIARY

Public Water Supply ID: 5300947

ANAMOSA STATE PENITENTIARY
ATTN STEVE LECLERE
406 N HIGH ST
ANAMOSA IA 52205

Effective Date: February 13, 2018

Expiration Date: May 31, 2021

The permittee is authorized to operate the public water system identified as ANAMOSA STATE PENITENTIARY, subject to the applicable sections of Iowa Code including Chapter 455B and part 567 of the Iowa Administrative Code (IAC). This system is further subject to the monitoring requirements and general conditions of this permit and appendices when attached.

Appeal: Conditions of this permit may be appealed as provided in 561 IAC chapter 7, adopted by reference by 567 IAC chapter 7. The notice of appeal is required to be in writing and must be postmarked within 30 days of receipt of this permit. The written notice of appeal is required to be mailed to the Director with a copy to the Bureau Chief, Legal Services Bureau, Department of Natural Resources, 502 East 9th Street, Des Moines, Iowa 50319-0034.

Renewal: The permittee must file for renewal of this permit by April 01, 2021. The Iowa Department of Natural Resources (IDNR) will issue an application for renewal prior to this date. It is the permittee's responsibility to ensure that the application is completed and returned to the IDNR. Failure to make proper application or maintain compliance with the requirements of this operation permit may result in legal action pursuant to Iowa Code sections 455B.175 and 455B.191, and 567 IAC Chapter 10 (455B), including the possible assessment of monetary penalties.

FOR THE DIRECTOR,

By: _____ Date: February 13, 2018

cc: Field Office 1
File: PWSID:5300947, ANAMOSA STATE PENITENTIARY
ANAMOSA STATE PENITENTIARY
ATTN STEVE LECLERE
406 N HIGH ST
ANAMOSA IA 52205

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT**ANAMOSA STATE PENITENTIARY**

Date: February 13, 2018

Public Water Supply ID: 5300947

Anamosa State Penitentiary is classified as a community public water supply with a groundwater source. The supply must have a certified operator in direct responsible charge of its treatment and distribution systems holding the appropriate classification(s). This supply is classified as a Grade 2 water treatment system and Grade 2 water distribution system. The current operating period is defined as January 1 to December 31. In case your operating period is different than these dates, you must notify the IDNR immediately.

The water supply must sample at the locations and frequencies specified in this permit during periods of normal operation and representative of all water sources and treatment.

Distribution System Monitoring Requirements

The following samples must be taken throughout the distribution system, according to written sampling plans, and analyzed by a laboratory certified by the IDNR.

Facility ID: **950**Distribution System Name : **DISTRIBUTION SYSTEM**

ANALYTE	MONITORING FREQUENCY	SAMPLE PERIOD
Coliform Bacteria	2 samples every month	
Lead and Copper	10 samples every 3 years	June 1 to September 30, 2018

Source Entry Point Monitoring Requirements

The following samples must be taken at the source entry point and analyzed by a laboratory certified by the IDNR.

Facility ID: **04**Source Entry Point Name: **SS FOR WELL #3**

ANALYTE	MONITORING FREQUENCY	SAMPLE PERIOD
Combined Radium	1 sample every quarter	
Gross Alpha	1 sample every 6 years	October 1 to December 31, 2023
Inorganic (IOC) Chemicals	1 sample every 9 years	October 1 to December 31, 2026
Nitrate	1 sample every year	October 1 to December 31
Synthetic (SOC) Chemicals	1 sample every 6 years	January 1 to March 31, 2023
Volatile (VOC) Chemicals	1 sample every 6 years	January 1 to March 31, 2023
Sodium	1 sample every 3 years	October 1 to December 31, 2020

Note: Samples may be collected before the sample period specified, unless denoted with an asterisk (*) above, for monitoring frequencies of a year or greater. However, the interval between samples must not exceed the frequency. If a yearly 3rd quarter sample is collected early, for example in the 2nd quarter, the next yearly sample must be collected before the end of the 2nd quarter of the next year.

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT

ANAMOSA STATE PENITENTIARY

Date: February 13, 2018

Public Water Supply ID: 5300947

Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR)

Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR) monitoring requirements are based on your source water type and system population. Compliance with this rule is based on each individual distribution system sampling location. If an individual location is sampled quarterly, then compliance is based on the average of the analytical results for the previous four calendar quarters.

A total of 1 sample(s) must be collected per monitoring period, according to the approved sampling plan. Each sample from each location must be analyzed for both Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). Samples must be collected at the following points and frequencies:

Sample location	Facility ID	Sample Point ID	Monitoring Frequency
WATER CLOSET IN BASEMENT LUD (HTL)	950	DB01	every year in August

Monthly Operation Report (MOR) Self-Monitoring Requirements

Monthly records of operation must be signed by the certified operator in direct responsible charge or their designee, maintained at the system for a period of five years, and available for IDNR review. Analysis of analytical parameters by a laboratory certified by IDNR is not required; however, a reliable field test kit or laboratory method must be used. Monthly Operation Report Forms may be obtained by contacting Field Office 1 at 563-927-2640. When IDNR notification is required, use this same field office number. During evenings, weekends, and holidays, notify the IDNR through the 24-Hr Emergency Response Unit at 515-725-8694.

When indicated in the section(s) below, the permittee must report the signed results of the self-monitoring in an approved format to Field Office 1 in Manchester within 10 days after the end of each month.

Routine Monitoring

Any parameter with an "X" in the report column below, must be submitted to the IDNR field office monthly as prescribed above. All parameters, whether reported to the field office or not, must be maintained at the system.

PARAMETER	FREQUENCY	LOCATION	REPORT	COMMENTS/RANGES
Disinfectant Residual	1/Day	Distribution System	X	Rotate residual locations among bacteria sample sites.
Disinfectant Residual	1/Day	Source Entry Point	X	Daily at power plant.
Disinfectant, Quantity Used	1/Day	Day Tank / Scale	X	maintain at 1.5 mg/L Total chlorine minimum
Phosphate, Quantity Used	1/Week	Day Tank / Scale	X	
Phosphate, as PO ₄	2/Week	Source Entry Point	X	
Pumpage or Flow	1/Day	Raw Water	X	
Static Water and Pumping Levels	1/Month	Each Active Well	X	

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT

ANAMOSA STATE PENITENTIARY

Date: February 13, 2018

Public Water Supply ID: 5300947

Mandatory Treatment Objectives and Operational Restrictions

You are required to adhere to the following treatment or restriction provisions. All parameters listed below must be monitored and reported to the IDNR Field Office. The permittee must report the signed results of the self-monitoring in an approved format to Field Office 1 in Manchester within 10 days after the end of each month. You are required to achieve operational ranges when specified. You must notify the IDNR field office before any planned deviations and within 24 hours of any emergency deviations. Such circumstances are also to be reflected in the monthly operational reports.

Restricted Use Well (GW)**Well #4**

You may use this water source only in emergencies. You must notify the IDNR field office before any planned use, within 24 hours of any emergency use, or when use of the source exceeds 30 days per year. Upon notification by the PWS, the field office will assign appropriate monitoring and other requirements. When the source is placed into service, if the water quality is unknown, or there is a known risk from nitrate or nitrite, the public must be advised of the potential risk and bottled water use implemented. If there is a known risk from coliform bacteria alone, the public must be advised of the potential risk and a boil water order issued.

PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Pumpage or Flow, each Source	1/Day	Raw Water	

Restricted Use Source (Consecutive Connection)**from Anamosa**

You must notify the IDNR field office before any planned use, within 24 hours of any emergency use, and where use of the source exceeds 30 days per year. Upon notification by the PWS, the IDNR will assign appropriate monitoring and other requirements.

PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Pumpage or Flow, each Connection	1/Day	Connection Point	

Disinfection By-Product Requirements (DBPR)

Community and nontransient noncommunity public water supplies that add a chemical disinfectant or which provide water that contains a chemical disinfectant must monitor for the following to determine compliance with disinfection byproducts requirements. Total chlorine residuals must be used in the Maximum Residual Disinfectant Level (MRDL) calculations.

PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Calculated MRDL (Monthly Average)	1/Month	Distribution System	Calculated each calendar month from the total chlorine residuals measured with the routine and repeat coliform bacteria samples.
Calculated MRDL (Running Annual Average)	1/Quarter	Distribution System	Calculated each calendar quarter from the previous 12 monthly MRDL total chlorine residual averages.
Disinfectant Residual	At Sampling	Distribution System	The system must measure and record chlorine residuals on the sample data sheet when sampling in the distribution system for routine and repeat coliform bacteria samples.

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT

ANAMOSA STATE PENITENTIARY

Issue Date: February 13, 2018

Public Water Supply ID: 5300947

GENERAL PERMIT CONDITIONS

1. ADMINISTRATIVE RULES

Rules of the IDNR which govern your facility operation, in connection with this permit, are published in 567 Iowa Administrative Code (IAC) Chapters 40, 41, 42, 43, and 81.

2. NOTICE OF CHANGED CONDITIONS

You are required to report any changes in existing conditions or information on which this permit is based. If any modification of, addition to, or construction of this water system is made, you must first obtain a written construction permit from the IDNR, in accordance with 567 Chapters 40, 41, and 43.

3. PERMIT MODIFICATION, SUSPENSION, OR REVOCATION

- a. This permit may be modified at any time as a result of changes to the Iowa Administrative Code.
- b. This permit may be modified due to changes in the conditions or information on which this permit is issued.
- c. This permit may be modified to include a compliance schedule.
- d. This permit may be modified, suspended, or revoked for causes specified in 567 IAC 43.2(8).

4. INSPECTION OF PREMISES, RECORDS, EQUIPMENT, AND METHODS

You are required to permit authorized IDNR personnel to survey and inspect any construction, operation, and records of your water supply system in accordance with Iowa Code, section 455B. 174, and 567 IAC 42.4(3)"a" and 42.5(1)"g" and 567 Chapter 44.

5. OPERATION AND MAINTENANCE

All facilities and control systems must be operated as efficiently as possible and maintained in good working order in accordance with 567 IAC Chapter 43. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility, must be retained to achieve compliance with the terms of this permit.

6. REPORTING, PUBLIC NOTIFICATION, AND RECORDKEEPING REQUIREMENTS

- a. You are required to report all test, measurement, or analytical results to the IDNR in accordance with 567 IAC 42.4(1)"a". This must include the reporting of all positive detects within the same analytical series.
- b. You are required to report to the IDNR within 48 hours any violation of the drinking water regulations or monitoring requirements in accordance with 567 IAC 42.4(1)"b".
- c. You are required to notify the public of any violation of the drinking water regulations or monitoring requirements in accordance with 567 IAC 42.1(455B).
- d. Within 10 days of notifying the public, you are required to provide proof of such action to the IDNR in accordance with 567 IAC 42.4(1)"c".
- e. You are required to maintain records of analyses, of actions to correct violations of any of the drinking water regulations, of correspondence, and of permits for periods of 5 to 12 years depending on the nature of the records, in accordance with 567 IAC 42.5(1).

7. TRANSFER OF TITLE, CHANGE IN OPERATION

If title to your facility or any part of it is transferred, the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing within 30 days to such transfer of title. The Director of the IDNR must be notified in writing within 30 days of such transfer or of any other change in conditions identified in the permit application (567 IAC 43.2(455B)).

8. SEVERABILITY

If any provision or application of any provision to any circumstances is found to be invalid by the IDNR or by a court of law, all other provisions and conditions shall remain effective.

9. APPLICATION OF OTHER AUTHORITY

This permit does not relieve you of the responsibilities to comply with all local, state, and federal laws, ordinances, regulations, or other legal requirements applying to the operation of your facility.

FACILITY ID SUMMARY

ANAMOSA STATE PENITENTIARY

PWSID 5300947

Facility ID	Facility Name	Status									
Facility Type : Distribution System		Type Code : DS									
950	DISTRIBUTION SYSTEM	Active									
<table> <tr> <th>Stage 2 DBPR Sample ID</th><th>Description</th><th>Status</th></tr> <tr> <td>DB01</td><td>WATER CLOSET IN BASEMENT LUD (HTL)</td><td>Active</td></tr> <tr> <td>DB02</td><td>CUSTOM WOOD SHOP MIDDLE TAP (HHL)</td><td>Inactive</td></tr> </table>		Stage 2 DBPR Sample ID	Description	Status	DB01	WATER CLOSET IN BASEMENT LUD (HTL)	Active	DB02	CUSTOM WOOD SHOP MIDDLE TAP (HHL)	Inactive	
Stage 2 DBPR Sample ID	Description	Status									
DB01	WATER CLOSET IN BASEMENT LUD (HTL)	Active									
DB02	CUSTOM WOOD SHOP MIDDLE TAP (HHL)	Inactive									
Facility Type : Source/Entry Point		Type Code : SS									
01	TAP IN PUMP HOUSE, #1(1932)	Inactive									
02	TAP IN PUMP HOUSE, #2(1966)	Inactive									
03	SS FROM ANAMOSA WS, IA5307048	Inactive									
04	SS FOR WELL #3	Active									
05	SS FOR WELL #4	Inactive									
Facility Type : Well		Type Code : WL									
WL01	PLUG # 1 (1930) Well Tag ID: 1010029	Inactive									
WL02	PLUG # 2 (1966) Well Tag ID: 1010030	Inactive									
WL03	WELL #3 (2008) Well Tag ID:	Active									
WL04	WELL #4 (2008) Well Tag ID:	Inactive									
Facility Type : Consecutive Connection		Type Code : CC									
CC01	CC FROM ANAMOSA WS, IA5307048	Inactive									
Facility Type : Treatment Plant		Type Code : TP									
TP01	TREATMENT PLANT FOR WELL #1 & #2	Inactive									
TP02	PLANT #2	Inactive									
TP03	TREATMENT PLANT WELLS 3 OR 4	Active									
Facility Type : Storage		Type Code : ST									
ST01	TOTAL ELEVATED STORAGE	Inactive									
ST02	RESERVOIR	Active									
Facility Type : Other		Type Code : OT									
CC02	CC TO ANAMOSA WS, IA5307048	Inactive									