

**SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES**

**Surface Water Discharge Permit
Authorizing Discharge
Under The South Dakota Surface Water Discharge System**

In compliance with the provisions of the South Dakota Water Pollution Control Act and the Administrative Rules of South Dakota, Article 74:52,

U.S. Geological Survey - Yankton Field Research Station

is authorized under this permit to discharge to

Lake Yankton

from its facility located in the Southwest ¼ of Section 16 and the Southeast ¼ of Section 17 all in Township 93 North, Range 56 West, in Yankton County, South Dakota (Latitude 42.870200°, Longitude -97.476900°) , in accordance with discharge points, effluent limits, monitoring requirements, and other conditions set forth herein. Authorization is limited to those outfalls specifically listed in the permit. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the South Dakota Water Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

This permit shall become effective [DATE].

This permit and the authorization to discharge shall expire at midnight, [EXPIRATION DATE].

Signed this day of

DRAFT

Authorized Permitting Official

Steven M. Pirner
Secretary
Department of Environment and Natural Resources

Contents

1.0	DEFINITIONS	4
2.0	PERMIT COVERAGE	8
2.1	PERMIT TRANSFERS	8
2.2	REOPENER PROVISIONS.....	8
2.3	DUTY TO REAPPLY.....	9
2.4	CONTINUATION OF THE EXPIRED PERMIT.....	9
2.5	PROPERTY RIGHTS	9
2.6	PERMIT ACTIONS	9
2.7	SEVERABILITY	9
3.0	EFFLUENT LIMITS.....	11
3.1	DESCRIPTION OF DISCHARGE POINTS.....	11
3.2	EMERGENCY DISCHARGES AND SANITARY SEWER OVERFLOWS	11
3.3	PROPER OPERATION AND MAINTENANCE	12
3.4	EFFLUENT LIMITS – <i>OUTFALL 001</i>	12
3.5	EFFLUENT LIMITS – <i>OUTFALL 002</i>	13
3.6	INSPECTION REQUIREMENTS	13
4.0	MONITORING, RECORD KEEPING, & REPORTING REQUIREMENTS.....	15
4.1	SELF-MONITORING REQUIREMENTS- <i>OUTFALL 001</i>	15
4.2	SELF-MONITORING REQUIREMENTS- <i>OUTFALL 002</i>	17
4.3	MONITORING PROCEDURES.....	18
4.4	ADDITIONAL MONITORING BY THE PERMITTEE	18
4.5	REPORTING OF MONITORING RESULTS- <i>OUTFALL 002</i>	18
4.6	REPORTING OF MONITORING RESULTS-EMERGENCY DISCHARGES AND SSOs	19
4.7	EMERGENCY DISCHARGE REPORTING REQUIREMENTS	19
4.8	BYPASS REPORTING.....	20
4.9	RECORDS CONTENTS	21
4.10	SIGNATORY REQUIREMENTS	21
4.11	RETENTION OF RECORDS	22
4.12	AVAILABILITY OF REPORTS	22
4.13	DUTY TO PROVIDE INFORMATION.....	22
4.14	PLANNED CHANGES	23
5.0	COMPLIANCE REQUIREMENTS.....	24
5.1	DUTY TO COMPLY.....	24
5.2	DUTY TO MITIGATE	24
5.3	NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE.....	24
5.4	UPSET CONDITIONS.....	24
5.5	PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS	25
5.6	PENALTIES FOR FALSIFICATION OF REPORTS	25
5.7	OIL AND HAZARDOUS SUBSTANCE LIABILITY	25

6.0 ADDITIONAL PERMIT CONDITIONS.....26

6.1 INSPECTION AND ENTRY 26

6.2 REMOVED SUBSTANCES..... 26

APPENDIX A - Emergency Discharge Monitoring Summary Form (Outfall 001)

APPENDIX B – Emergency Discharge/SSO Monitoring Summary Form (Outfall 002)

1.0 DEFINITIONS

“30-day (and monthly) Average” means the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.

“7-day (and weekly) Average” means the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week that begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains the Saturday.

“ARSD” means the Administrative Rules of South Dakota.

An **“Authorized Release”** is a discharge from a permitted outfall that meets all permit conditions and effluent limits.

“Biosolids” means any sewage sludge or material derived from sludge that can be beneficially used. Beneficial use includes, but is not limited to, land application to agricultural land, forest land, a reclamation site or sale or give away to the public for home lawn and garden use.

“BOD₅” means Five-Day Biochemical Oxygen Demand. BOD is a measurement of the amount of oxygen utilized by the decomposition of organic material, over a specified time period (usually 5 days) in a sample.

A **“Bypass”** is the intentional diversion of waste streams from any portion of a treatment facility. Bypasses do not include releases from the sanitary sewer collection system (see **“Sanitary Sewer Overflow”**) or emergency releases from the treatment facility (see **“Emergency Discharge”**). Bypasses may result in a discharge or unauthorized release.

“Composite Samples” shall be flow proportioned. The composite sample shall contain at least four samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:

1. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
2. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
3. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every “X” gallons of flow); and,

4. Continuous collection of sample, with sample collection rate proportional to flow rate.

“Daily Maximum (Daily Max.)” is the maximum value allowable in any single sample or instantaneous measurement.

“DMR” means Discharge Monitoring Report, EPA Form 3320-1, or a report filed electronically by an EPA-approved electronic system, which is used to report sampling data.

An **“Emergency Discharge”** is a discharge from the lower end of the treatment or containment system through a release structure or over or through retention dikes. An emergency discharge is distinguished from a sanitary sewer overflow in that a sanitary sewer overflow discharges wastewater prior to reaching the treatment or containment system.

“EPA” or **“US EPA”** means United States Environmental Protection Agency.

A **“Grab Sample,”** for monitoring requirements, is a single “dip and take” sample collected at a representative point in the discharge stream.

“Industrial Sludge” see **“Solid Waste”**

An **“Industrial User”** is a non-domestic source of pollutants discharged into a publicly owned treatment works.

An **“Instantaneous Measurement,”** for monitoring requirements, is a single reading, observation, or measurement either taken at the facility or within 15 minutes of the sample.

“MGD” is the measure of flow rate meaning million gallons per day.

“pH” is the measure of the hydrogen ion concentration of water or wastewater; expressed as the negative log of the hydrogen ion concentration. A pH of 7 is neutral. A pH less than 7 is acidic, and a pH greater than 7 is basic.

A **“Publicly-Owned Treatment Works”** or **“POTW”** is any device or system used in the treatment, including recycling and reclamation, of municipal sewage or industrial waste of a liquid nature that is owned by the state or a municipality. This term includes sewers, pipes, or other conveyances only if they convey wastewater to a publicly owned treatment works providing treatment.

A **“Sanitary Sewer Overflow”** or **“SSO”** is the intentional or unintentional discharge of untreated sewage from the sanitary sewer collection system, including sewer lines, manholes, lift stations, etc.

“SDDENR” means the South Dakota Department of Environment and Natural Resources.

“Secretary” means the Secretary of the South Dakota Department of Environment and Natural Resources, or authorized representative.

“Severe Property Damage” is substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

“Sewage Sludge” is any solid, semi-solid, or liquid residue removed during the treatment of municipal wastewater or domestic sewage. Sewage sludge includes but is not limited to solids removed during primary, secondary or advanced wastewater treatment, scum, septage, portable toilet pumpings, and sewage sludge products. Sewage sludge does not include grit, screenings, or ash generated during the incineration of sewage sludge.

A **“Significant Industrial User”** is defined as an industrial user discharging to a publicly-owned treatment works (POTW) that satisfies any of the following:

1. Is subject to Categorical Pretreatment Standards under ARSD Chapter 74:52:10 (a.b.r. 40 CFR 403.6 and 40 CFR chapter I, subchapter N);
2. Discharge an average of 25,000 gallons per day or more of process wastewater to the publicly owned treatment works (excluding sanitary, non-contact cooling water, and boiler blowdown wastewater);
3. Contributes a process wastewater that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the publicly owned treatment works; or,
4. Is designated as such by the Secretary on the basis that the Industrial User has a reasonable potential for adversely affecting the publicly owned treatment works or for violating any pretreatment standard or requirement.

“Solid Waste” is any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded materials, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, and agricultural operations, and from community activities, but does not include mining waste in connection with a mine permitted under Title 45, hazardous waste as defined under chapter 34A-11, solid or dissolved materials in domestic sewage or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, as amended to January 1, 2011, or source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended to January 1, 2011.

“TSS” means Total Suspended Solids. TSS is a measure of the filterable solids present in a sample.

An **“Unauthorized release”** is a discharge from the lower end of the treatment or containment system through a release structure or over or through retention dikes that does not meet all permit conditions or effluent limits. An unauthorized release is distinguished from a sanitary sewer overflow in that a sanitary sewer overflow discharges wastewater prior to treatment or containment.

“Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2.0 PERMIT COVERAGE

2.1 Permit Transfers

1. Coverage under this permit may be transferred to a new permittee if:
 - a. The signatory authority notifies the Secretary at least 30 days in advance of the proposed transfer date;
 - b. The notice includes a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The new permittee submits a Certification of Applicant form certifying the new permittee is qualified to perform the obligations of a permit holder in accordance with South Dakota Codified Law 1-40-27.
2. The Secretary will notify the existing and new permittee of his or her intent to transfer, modify, or revoke and reissue the permit based on the information received and other permit information.

2.2 Reopener Provisions

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limits (and compliance schedules, if necessary), or other appropriate requirements if one or more of the following events occurs:

1. **Water Quality Standards:** The water quality standards of the receiving waters applicable to this permit are modified in such a manner as to require different effluent limits than contained in this permit;
2. **Water Quality Management Plan:** A revision to the current water quality management plan is approved and adopted that calls for different effluent limits than contained in this permit;
3. **Effluent Guidelines:** Effluent limit guidelines are promulgated or revised for point sources covered by this permit;
4. **Total Maximum Daily Load:** Additional controls in the permit are necessary to implement a total maximum daily load approved by the Secretary and/or EPA;
5. **Noncompliance:** The discharger is a significant contributor of pollution to waters of the state, presents a health hazard, or is in noncompliance with the conditions of the permit;
6. **Whole Effluent Toxicity:** Whole effluent toxicity is detected in the discharge; or
7. **Other Changes:** Other conditions or standards change so that the discharge no longer qualifies for this permit, such as the permittee being designated as a major discharger, changes in necessary influent or effluent pollutant monitoring,

additional industrial pretreatment requirements become applicable to the permittee, or other items.

2.3 Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain coverage under a new permit. The permit application must be submitted at least 180 days before the expiration date of this permit. Periodically during the term of this permit and at the time of reissuance, the permittee may be requested to reaffirm its eligibility to discharge under this permit.

2.4 Continuation of the Expired Permit

An expired permit continues in full force and effect until a new permit is issued. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must submit an application at least 180 days before the expiration date of the permit.

2.5 Property Rights

1. The Secretary's issuance of this permit, adoption of design criteria, and approval of plans and specifications, does not convey any property rights of any sort, any exclusive privileges, any authorization to damage, injure or use any private property, any authority to invade personal rights, any authority to violate federal, state or local laws or regulations, or any taking, condemnation or use of eminent domain against any property owned by third parties.
2. The State does not warrant that the permittee's compliance with this permit, design criteria, approved plans and specifications, and operation under this permit, will not cause damage, injury or use of private property, an invasion of personal rights, or violation of federal, state or local laws or regulations. The permittee is solely and severably liable for all damage, injury or use of private property, invasion of personal rights, infringement of federal, state or local laws and regulations, or taking or condemnation of property owned by third parties, that may result from actions taken under the permit.

2.6 Permit Actions

The Secretary may modify, revoke and reissue, or terminate coverage under this permit for cause, including failure to comply with any provision of this permit or any condition imposed by the Secretary upon granting coverage under 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.

2.7 Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the

application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

3.0 EFFLUENT LIMITS

3.1 Description of Discharge Points

The authorization to discharge provided under this permit is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under this permit is a violation of the South Dakota Water Pollution Control Act and could subject the person(s) responsible for such discharge to penalties under Section 34A-2-75 of the Act. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge within a reasonable time from the permittee first learning of an unauthorized discharge could subject the permittee to penalties as provided under the South Dakota Water Pollution Control Act.

Outfall

Number

Description of Discharge Points

001	Any discharge from the two-cell stabilization pond system at the USGS Yankton Field Research Station (Latitude 42.869483°, Longitude -97.476133°)
002	Any discharge from the fish culture tanks, reverse osmosis membrane reject water, and water softener regeneration water at the USGS Yankton Field Research Station to Lake Yankton (Latitude 42.869016°, Longitude -97.478600°)

3.2 Emergency Discharges and Sanitary Sewer Overflows

1. Discharges of wastewater are prohibited from locations other than Outfall 002 as described in **Section 3.1 – Description of Discharge Points** and the Secretary may take enforcement action against a permittee for discharges at any other location, unless the discharge or sanitary sewer overflow is an emergency and meets each of the following conditions:
 - a. The emergency discharge or sanitary sewer overflow was unavoidable to prevent loss of life, threat to public health, personal injury, or severe property damage;
 - b. There were no feasible alternatives to the emergency discharge or sanitary sewer overflow, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment or proper operation and maintenance to prevent an emergency release that occurred during normal periods of equipment downtime or preventive maintenance; and,
 - c. The permittee submitted notices as required under **Section 4.6 – Emergency Discharge Reporting Requirements**.

2. If an emergency discharge, sanitary sewer overflow, or other discharge occurs or is expected to occur, the permittee shall take the appropriate measures to minimize the discharge of pollutants. Such measures may include the closing of facilities that contribute wastewater to the sewer system until the discharge is terminated.
3. Any emergency discharge or sanitary sewer overflow that meets the conditions of paragraph 1 above shall be reported as soon as possible (but in no case more than 24 hours after becoming aware of the circumstances) in accordance with the provisions in **Section 4.7 – Emergency Discharge Reporting Requirements**. The report shall be made to the Secretary at (605) 773-3351 during regular business hours (8:00 a.m. – 5:00 p.m. Central Time) or to the South Dakota Emergency Management at (605) 773-3231 any other time.

3.3 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and treatment and control systems that are installed or used by the permittee to achieve compliance with the conditions of this permit or other conditions required by the Secretary upon issuance.

1. This may include the maintenance of freeboard levels of lagoons or holding ponds.
2. Proper operation and maintenance may also include adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

3.4 Effluent Limits – *Outfall 001*

Effective immediately and lasting through the life of this permit, there shall be **no discharge** from Outfall 001 except in accordance with the emergency release, bypass, or sanitary sewer overflow provisions of this permit. If an emergency release, bypass, sanitary sewer overflow, or other discharge occurs or is expected to occur, the permittee shall report the occurrence in accordance with **Section 4.7 – Emergency Discharge Reporting Requirements** and take the appropriate measures to minimize the discharge of pollutants. Such measures may include the closing of facilities that contribute wastewater to the sewer system until the discharge is terminated.

3.5 Effluent Limits – *Outfall 002*

Effective immediately and lasting through the life of this permit, the quality of effluent discharged at this outfall shall, as a minimum, meet the limits as set forth below:

Effluent Characteristic	Effluent Limit	
	30-Day Average ¹	Daily Maximum ¹
Total Dissolved Solids (TDS), mg/L	2,500	4,375
Conductivity, μ mhos/cm	4,000	7,000
Total Alkalinity (as CaCO ₃), mg/L	750	1,313
The pH of the discharge shall not be less than 6.5 standard units or greater than 9.0 standard units in any sample.		
There shall be no discharge of floating solids or visible foam from the laboratory or toxicity studies.		

¹ See Definitions.

3.6 Inspection Requirements

The permittee shall inspect its facility, outfall structures, and lift station (sump pump) regularly as outlined below. The inspection shall be conducted to determine if a discharge is occurring, has occurred since the previous inspection, and/or if a discharge is likely to occur before the next inspection. In addition, the inspection shall be performed to determine if proper operation and maintenance procedures are being undertaken at the wastewater treatment facility and lift stations. The permittee shall maintain a notebook recording information obtained during the inspection.

1. **Facility Inspections.** The permittee shall inspect the facility, Outfall 001, and stabilization ponds on at least a **weekly** basis. Outfall 002 shall be inspected on a **monthly** basis. At a minimum, the notebook shall include the following:
 - a. Date and time of the inspection;
 - b. Name of the inspector(s);
 - c. The facility's discharge status;
 - d. The measured amount of freeboard or water depth in each pond;
 - e. Identification of operational problems and/or maintenance problems;
 - f. Recommendations, as appropriate, to remedy identified problems;
 - g. A brief description of any actions taken with regard to problems identified; and,
 - h. Other information, as appropriate.

2. **Lift Station Inspections.** The permittee shall inspect the lift station on at least a **weekly** basis. The inspections shall be performed to determine if proper operation and maintenance procedures are being undertaken and verify no discharges from the lift station are occurring or have occurred. During any discharge from the lift station, the lift station shall be inspected on a **daily** basis. At a minimum, the notebook shall include the following for each lift station:
 - a. Date and time of the inspection;
 - b. Name of the inspector(s);
 - c. Whether a discharge is occurring or has occurred;
 - d. Identification of operational problems and/or maintenance problems;
 - e. Cleaning of screenings, if applicable;
 - f. Testing of alarms, if applicable;
 - g. Hour meter readings;
 - h. Recommendations, as appropriate, to remedy identified problems;
 - i. A brief description of any actions taken with regard to problems identified; and,
 - j. Other information, as appropriate.
3. The permittee shall maintain the notebook(s) for the facility and the lift station in accordance with proper record-keeping procedures and shall make the notebook(s) available for inspection, upon request, by the Secretary or the US EPA.

4.0 MONITORING, RECORD KEEPING, & REPORTING REQUIREMENTS

4.1 Self-Monitoring Requirements-*Outfall 001*

No discharge is allowed to occur from Outfall 001 except in the event of an emergency discharge. Promptly upon discovery of an emergency bypass or other unauthorized discharge, the discharge shall be monitored as shown below. Knowingly discharging or failing to report a discharge within a reasonable time from the permittee first learning of a discharge could subject the permittee to penalties as provided under the South Dakota Water Pollution Control Act. The permittee shall report the monitoring results in accordance with **Section 4.7 – Emergency Discharge Reporting Requirements**.

Effluent Characteristic	Frequency	Reporting Values ¹	Sample Type ¹
Duration of Discharge, days	Each Discharge ²	Monthly Total	Calculated
Total Flow, gallons	Each Discharge ²	Monthly Total	Calculated
Flow Rate, gallons per day	Daily ³	Actual Value	Instantaneous
pH, standard units	Daily ³	Actual Value	Instantaneous ^{4,5}
Water Temperature, °C	Daily ³	Actual Value	Instantaneous ^{5,6}
Chemical Oxygen Demand (COD), mg/L	Daily ³	Actual Value	Grab
Total Suspended Solids (TSS), mg/L	Daily ³	Actual Value	Grab
Ammonia-Nitrogen (as N), mg/L	Daily ³	Actual Value	Grab ⁵
Weak Acid Dissociable (WAD) Cyanide, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Arsenic, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Cadmium, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Chromium, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Copper, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Lead, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Mercury (as Hg), mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Nickel, mg/L ⁷	At least one per discharge	Actual Value	Grab

Effluent Characteristic	Frequency	Reporting Values ¹	Sample Type ¹
Total Recoverable Selenium, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Silver, mg/L ⁷	At least one per discharge	Actual Value	Grab
Total Recoverable Zinc, mg/L ⁷	At least one per discharge	Actual Value	Grab
Toxicity Study Chemicals ⁷	At least one per discharge	Report Submittal	Grab

¹ See Definitions.

² The permittee shall report the date and time of the start and termination of each discharge, along with the total number of gallons discharged during the entire discharge event.

³ The permittee shall take a minimum of one sample per day during any emergency release, bypass, sanitary sewer overflow, or other discharge unless SDDENR authorizes an alternative sampling schedule.

⁴ pH shall be taken within 15 minutes of sample collection with a pH meter. The pH meter must be capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units and be equipped with temperature compensation adjustment. Readings shall be reported to the nearest 0.1 standard units.

⁵ The pH and temperature of the effluent shall be determined when ammonia samples are collected.

⁶ The water temperature of the effluent shall be taken as a field measurement. Measurement shall be made with a mercury-filled, or dial type thermometer, or a thermistor. Readings shall be reported to the nearest whole degree Celsius.

⁷ The facility shall maintain records of all chemicals used in the toxicity studies and a sample of the discharge must be taken for any chemical that has been used within the previous 6 months.

4.2 Self-Monitoring Requirements-*Outfall 002*

All authorized discharges shall be monitored for the following parameters at the frequency and with the type of measurement indicated. Promptly upon discovery of an emergency bypass, sanitary sewer overflow, or other discharge, the discharge shall be monitored as shown below except on a **daily** basis (unless the department states otherwise) and reported as stated in **Section 4.7 –Emergency Discharge Reporting Requirement**. Knowingly discharging or failing to report a discharge within a reasonable time from the permittee first learning of a discharge could subject the permittee to penalties as provided under the South Dakota Water Pollution Control Act. The permittee shall report the monitoring results in accordance with **Section 4.5 – Reporting of Monitoring Results**.

Effluent Characteristic	Frequency	Reporting Values ¹	Sample Type ¹
Total Flow, gallons	Monthly ²	Monthly Total	Calculated
Flow Rate, gallons per day	Monthly ²	Daily Maximum; 30-Day Average	Instantaneous
pH, standard units	Monthly ²	Daily Minimum; Daily Maximum	Instantaneous ^{3, 4}
Water Temperature, °C	Monthly ²	Daily Maximum; 30-Day Average	Instantaneous ^{4, 5}
Total Dissolved Solids (TDS), mg/L	Monthly ²	Daily Maximum; 30-Day Average	Grab
Total Alkalinity (as CaCO ₃), mg/L	Monthly ²	Daily Maximum; 30-Day Average	Grab
Conductivity, µmhos/cm	Monthly ²	Daily Maximum; 30-Day Average	Grab
Five-Day Biochemical Oxygen Demand (BOD ₅), mg/L	Quarterly ²	Daily Maximum	Grab
Total Suspended Solids (TSS), mg/L	Quarterly ²	Daily Maximum	Grab
Ammonia-Nitrogen (as N), mg/L	Quarterly ²	Daily Maximum	Grab ⁴
Floating Solids or Visible Foam	Weekly	Presence or absence ⁶	Visual

¹ See Definitions.

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- ² The permittee always has the option of collecting additional samples if appropriate. All of the samples collected during the calendar month are to be used in determining the averages. The facility is required to sample the effluent when all waste streams are being discharged.
- ³ pH shall be taken within 15 minutes of sample collection with a pH meter. The pH meter must be capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units and be equipped with temperature compensation adjustment. Readings shall be reported to the nearest 0.1 standard units.
- ⁴ The pH and temperature of the effluent shall be determined when ammonia samples are collected.
- ⁵ The water temperature of the effluent shall be taken as a field measurement. Measurement shall be made with a mercury-filled, or dial type thermometer, or a thermistor. Readings shall be reported to the nearest whole degree Celsius.
- ⁶ The permittee shall certify presence or absence by recording “0” for no discharge of floating solids or visible foam (indicating a discharge of sanitary or chemical wastes) or recording “1” if a discharge of floating solids or visible foam occurred. If a discharge of floating solids or visible waste occurs, the permittee shall notify SDDENR within 24 hours. The permittee shall sample for the parameters listed in **Section 4.6 –Emergency Discharge Reporting Requirements**.

4.3 Monitoring Procedures

1. Effluent samples taken in compliance with the monitoring requirements established under this permit shall be collected prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge.
2. Monitoring shall be conducted according to test procedures approved under ARSD Section 74:52:03:06 (a.b.r. 40 CFR, Part 136), unless other test procedures have been specified in this permit or approved by the Secretary.

4.4 Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit at the designated points, using test procedures approved under ARSD Section 74:52:03:06 (a.b.r. 40 CFR 136) or as specified in this permit, the results of this monitoring shall be used in determining compliance with this permit and reported to SDDENR.

4.5 Reporting of Monitoring Results

1. Effluent monitoring results obtained during the previous three months shall be summarized for each month, reported on separate Discharge Monitoring Report Forms (EPA No. 3320-1), and submitted to SDDENR on a **quarterly** basis. These must be postmarked no later than the 28th day of the month following the completed reporting period. If no discharge occurs during the reporting period, “no discharge” shall be reported. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with **Section 4.10 – Signatory Requirements** and submitted to the Secretary at the following address:

South Dakota Department of Environment and Natural Resources
Surface Water Quality Program
PMB 2020
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

2. In accordance with SDCL 1-40-39, the Secretary is authorized to accept a document with an electronic signature. SDDENR shall provide for the authenticity of each electronic signature by adhering to any standards established by the South Dakota Bureau of Information and Telecommunications pursuant to SDCL 53-12-47 and 53-12-50 or any other standards established by rules promulgated pursuant to SDCL Chapter 1-26.

4.6 Reporting of Monitoring Results-Emergency Discharges and SSOs

1. Monitoring results for discharges from Outfall 001 shall be reported on a photocopy of the Emergency Discharge Monitoring Summary Form (Outfall 001) found in **Appendix A**. Sanitary Sewer Overflows and Emergency Discharges from Outfall 002 shall be reported on a photocopy of the Sanitary Sewer Overflow Monitoring Summary Form found in **Appendix B**. The form(s) shall be submitted to SDDENR on a **monthly** basis while a discharge and/or SSO is occurring and postmarked no later than the 28th day following the reporting period. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with **Section 4.10 – Signatory Requirements** and submitted to the Secretary at the address in paragraph 1 of **Section 4.5-Reporting of Monitoring Results-Outfall 002**. The Secretary may require a written report to be submitted sooner or may require additional information if the discharge has the potential to impact human health or the environment.
2. In accordance with SDCL 1-40-39, the Secretary is authorized to accept a document with an electronic signature. SDDENR shall provide for the authenticity of each electronic signature by adhering to any standards established by the South Dakota Bureau of Information and Telecommunications pursuant to SDCL 53-12-47 and 53-12-50 or any other standards established by rules promulgated pursuant to SDCL Chapter 1-26.

4.7 Emergency Discharge Reporting Requirements

1. The permittee shall report any emergency related to this permit or permitted facility that may endanger health or the environment as soon as possible, but no later than 24 hours after becoming aware of the circumstances as follows:
 - a. During regular business hours (8:00 a.m. - 5:00 p.m. Central Time), the report shall be made at (605) 773-3351.
 - b. Outside of normal business hours, the permittee shall leave a message at 1-800-GET-DENR (1-800-438-3367).

2. Effluent discharges, sanitary sewer overflows, emergency discharges, upsets, and other unauthorized releases that do not meet the conditions of Paragraph 1 above shall be reported to the Secretary within 24 hours from the time the permittee becomes aware of the circumstances as follows:
 - a. During regular business hours (8:00 a.m. - 5:00 p.m. Central Time), the report shall be made at (605) 773-3351.
 - b. Outside of normal business hours, the permittee shall leave a message at 1-800-GET-DENR (1-800-438-3367).
3. Anticipated overflows shall be reported to the Secretary in advance, if possible.
4. The Secretary may require the permittee to notify the general public or downstream users that could be or will be impacted by the emergency discharge.
 - a. In making the decision to require public notification, the Secretary will consider the potential impacts as a result of the discharge, the downstream beneficial uses (such as drinking water or recreation), and the potential for public contact.
 - b. If required by the Secretary, the permittee shall notify the public and/or downstream users as soon as possible, but in no case more than 24 hours after the discharge begins.
5. In addition to verbal notification, the permittee shall submit to the Secretary a written report of the circumstances above using the Emergency Discharge Reporting Summary Forms in **Appendix A** (for Outfall 001) or **Appendix B** (for Outfall 002).
 - a. Reports shall be submitted in accordance with **Section 4.6 – Reporting of Monitoring Results-Emergency Discharges and SSOs**.
 - b. The written submission shall contain:
 - i. A description of the event and its cause;
 - ii. The period of the event, including exact dates and times;
 - iii. Where the wastewater was discharged;
 - iv. The estimated time the event is expected to continue if it has not been corrected;
 - v. Any adverse effects, such as fish kills;
 - vi. If public notification was required, describe how the public was notified of the discharge; and
 - vii. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the event.

4.8 Bypass Reporting

1. The permittee may allow anticipated bypasses to occur that do not result in a discharge and will not result in a violation of the effluent limits, but only if for essential maintenance to ensure efficient operation.
2. The permittee shall submit notice of bypass as follows:

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, the permittee shall submit prior notice to the Secretary at least 10 days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass to the secretary at (605) 773-3351 by the first workday (8:00 a.m. – 5:00 p.m. Central Time) following the day the permittee became aware of the circumstances.

4.9 Records Contents

Records of monitoring information shall include:

1. The date, time, and exact place of sampling or measurements;
2. The initials or names of the individuals who performed the sampling or measurements;
3. The dates analyses were performed;
4. The time analyses were initiated;
5. The initials or names of individuals who performed the analyses;
6. References and written procedures, when available, for the analytical techniques or methods used; and,
7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

4.10 Signatory Requirements

1. All permit applications, reports or information submitted to the Secretary shall be signed and certified by either a principal executive officer or ranking elected official.
2. All reports required by the permit and other information requested by the Secretary shall be signed by a person described in paragraph 1 of this section or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Secretary; and,
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of superintendent or equivalent responsibility, or an individual or position having overall responsibility for environmental matters. A duly authorized representative may be either a named individual or any individual occupying a named position.

3. If an authorization under paragraph 1 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Secretary.
4. Any person signing a document under this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

4.11 Retention of Records

1. The permittee shall retain records of all monitoring information and other data required by this permit. This includes:
 - a. Data collected on site;
 - b. Copies of all Discharge Monitoring Report Forms;
 - c. A copy of the permit;
 - d. All calibration and maintenance records;
 - e. All original strip chart recordings for continuous monitoring instrumentation;
 - f. Copies of all other reports required by this permit; and
 - g. Records of all data used to complete the application for this permit.
2. This information must be retained for a period of at least **three years** from the date of the sample, measurement, report, or application. This period may be extended by request of the Secretary at any time. Data collected on site, copies of Discharge Monitoring Reports, and a copy of this permit must be maintained on site during the duration of the permitted activity.

4.12 Availability of Reports

Except for data determined to be confidential under ARSD Section 74:52:02:17, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of SDDENR. The name and address of the permittee, permit applications, notices of intent, permits, and effluent data shall not be considered confidential.

4.13 Duty to Provide Information

1. The permittee shall furnish to the Secretary, within a reasonable time, any information the Secretary 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 to the Secretary, upon request, copies of records required to be kept by this permit.
2. If the permittee becomes aware that it failed to submit any relevant facts in a permit application form, or submitted incorrect information in a permit application form or any report to the Secretary, it shall promptly submit such facts or information.

4.14 Planned Changes

The permittee shall give notice to the Secretary as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutant discharged, or could result in noncompliance with permit conditions. This notification also applies to pollutants that are not subject to effluent limits or other notification requirements in this permit.

5.0 COMPLIANCE REQUIREMENTS

5.1 Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the South Dakota Water Pollution Control Act and the federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application (a violation of a condition of this permit is subject to SDCL 34A-2-75).

5.2 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any wastewater discharge and/or sludge disposal or reuse in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

5.3 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5.4 Upset Conditions

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limits if the requirements of Paragraph 2 of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review (i.e., permittees will have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with technology-based permit effluent limits).
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under **Section 4.7–Emergency Discharge Reporting Requirements**; and,
 - d. The permittee complied with mitigation measures required under **Section 5.2 – Duty to Mitigate**.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

5.5 Penalties for Violations of Permit Conditions

Any person who violates a permit condition is in violation of the provisions of SDCL 34A-2-36, and is subject to penalties under SDCL 34A-2-75. In addition to a jail sentence authorized by SDCL 22-6-2, such violators are subject to a criminal fine not to exceed ten thousand dollars per day of violation. The violator is also subject to a civil penalty not to exceed ten thousand dollars per day of violation, or for damages to the environment of this state. Except as provided in **Section 5.4 – Upset Conditions**, nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

5.6 Penalties for Falsification of Reports

1. Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, is in violation of the provisions of SDCL 34A-2-77, and is subject to penalties under SDCL 34A-2-75.
2. Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit is in violation of the provisions of SDCL 34A-2-77, and is subject to penalties under SDCL 34A-2-75.
3. In addition to a jail sentence authorized by SDCL 22-6-2, such violators are subject to a criminal fine not to exceed ten thousand dollars per day of violation. The violator is also subject to a civil penalty not to exceed ten thousand dollars per day of violation, or for damages to the environment of this state.

5.7 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude SDDENR from taking any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to that the permittee is or may be subject under section 311 of the Federal Clean Water Act.

6.0 ADDITIONAL PERMIT CONDITIONS

6.1 Inspection and Entry

The permittee shall allow the Secretary or EPA, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the South Dakota Water Pollution Control Act, any substances or parameters at any location.

6.2 Removed Substances

1. Collected screenings, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard in accordance with applicable requirements of SDCL 34A-2, -6, and -11.
2. If sludge disposal is necessary, the permittee shall submit to the Secretary a sludge disposal plan for review and approval prior to the removal and disposal of sludge. The permittee shall not dispose of sludge without the Secretary's approval.

APPENDIX A

Emergency Discharge Monitoring Summary Form (Outfall 001)

EMERGENCY DISCHARGE MONITORING SUMMARY FORM

This form is to be used to summarize effluent monitoring information for emergency discharges from the facility.

Address:		
Facility Contact:		Phone:
Description of Event <i>(Attach additional sheets if necessary)</i>		
Date and Time the discharge began or was discovered:		
Date and Time the discharge was stopped:		
Describe the events resulting in the discharge and its cause(s):		
Where was the wastewater discharged:		
Describe the steps taken or planned to reduce, eliminate, and prevent reoccurrence:		
Time and Date 24-Hour Notice of Noncompliance given to SDDENR:		
Describe any adverse effects, such as fish kills, etc.:		
Duration of discharge (include dates and times):		
Total flow, million gallons:		

ANALYTICAL RESULTS

Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7
Date and time of sample							
Flow Rate, gallons per day							
pH, standard units							
Water Temperature, °C							
Chemical Oxygen Demand (COD), mg/L							
Total Suspended Solids (TSS), mg/L							
Ammonia-Nitrogen (as N), mg/L							
Weak Acid Dissociable (WAD) Cyanide, mg/L							
Total Recoverable Arsenic, mg/L							
Total Recoverable Cadmium, mg/L							
Total Recoverable Chromium, mg/L							
Total Recoverable Copper, mg/L							
Total Recoverable Lead, mg/L							
Total Mercury (as Hg), mg/L							
Total Recoverable Nickel, mg/L ⁷							

**USGS Yankton Field
Research Station**

Outfall 001N

SD0026310

Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7
Total Recoverable Selenium, mg/L							
Total Recoverable Silver, mg/L							
Total Recoverable Zinc, mg/L							
Toxicity Study Chemicals	Submit lab results of any chemicals used in the last six (6) months						

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations

Name (print): _____

Title: _____

Signature: _____

Date: _____

APPENDIX B

**Emergency Discharge/SSO Monitoring Summary Form
(Outfall 002)**

EMERGENCY DISCHARGE/SSO MONITORING SUMMARY FORM

This form is to be used to summarize effluent monitoring information for emergency discharges from the facility.

Address:		
Facility Contact:		Phone:
Description of Event <i>(Attach additional sheets if necessary)</i>		
Check One: <input type="checkbox"/> Emergency Discharge <input type="checkbox"/> Unauthorized Discharge <input type="checkbox"/> SSO		
Date and Time the discharge began or was discovered:		
Date and Time the discharge was stopped:		
Describe the events resulting in the discharge and its cause(s):		
Where was the wastewater discharged:		
Describe the steps taken or planned to reduce, eliminate, and prevent reoccurrence:		
Time and Date 24-Hour Notice of Noncompliance given to SDDENR:		
Describe any adverse effects, such as fish kills, etc.:		
Duration of discharge (include dates and times):		
Total flow, million gallons:		

ANALYTICAL RESULTS

Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7
Date and time of sample							
Flow Rate, gallons per day							
pH, standard units							
Water Temperature, °C							
Five-Day Biochemical Oxygen Demand (BOD ₅), mg/L							
Total Suspended Solids (TSS), mg/L							
Total Dissolved Solids (TDS), mg/L							
Ammonia-Nitrogen (as N), mg/L							
Total Alkalinity (as CaCO ₃), mg/L							
Conductivity, μmhos/cm							
Total Coliform, no./100 mL							
<i>E. coli</i> , no./100 mL							

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (print): _____

Title: _____

Signature: _____

Date: _____