GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Summary Page

Name of Facility TenCate Protective Fabrics/Southern Mills, Inc., Upson County

LAS Permit No. GAJ010578

This permit is a reissuance of a LAS permit for TenCate Protective Fabrics/Southern Mills, Inc. in Molena, Georgia. The facility land applies, via a spray irrigation system, a monthly average of 0.51 MGD of pretreated process wastewater from a textile facility to a dedicated site in the Flint River Basin.

The permit was placed on public notice from December 16, 2019 to February 14, 2020.

Please Note The Following Changes to the Proposed LAS Permit From The Existing Permit

Part I.B.1.a. Treatment Requirements, Limitations, and Monitoring

- Clarified that the effluent shall refer to the discharge from the treatment facility to the spray field(s), as sampled from a point after the final lagoon but before the gypsum injection system. This clarification was requested by the permittee per their 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree.
- Clarified that the flow should not exceed a monthly average of 0.51 MGD, as listed in the approved DDRs and the permit application, consistent with storage calculations in the approved DDRs.
- Specified that the flow monitoring sample type is calculated, rather than instantaneous, as confirmed by the permittee.
- Changed the monitoring frequency for BOD_5 from weekly to monthly, consistent with the COD monitoring frequency and with other current LAS permits.
- Added monitoring requirement for TSS, consistent with other LAS permits.
- Changed the effluent limit for total nitrogen at the North and South Zone sprayfields from 602 lb/acre/year to 150.5 lb/acre/quarter and at the West Zone sprayfields from 825 lb/acre/year to 209.75 lb/acre/quarter, consistent with other LAS permit reissuances.
- Clarified that the total nitrogen loading is a calculated value, rather than a grab sample type.
- Clarified that both the maximum and minimum effluent pH measurements should be reported.
- Specified the monitoring frequency of the COD and TSS with the footnote: "During the term of the Consent Decree entered in Case No. 5:16-cv-00435-TES, the Permittee will perform bi-monthly sampling of effluent COD and TSS. The Permittee will provide written notice to EPD when the Consent Decree has terminated, at which point the Permittee will resume monthly sampling of effluent for COD and TSS, without the need for permit modification." This increase in monitoring frequency was requested by the permittee per their 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree.

Part I.B.1.b.

- Specified the hydraulic wastewater loadings by Zone and month of the year, as is detailed in the permit application and the approved DDRs.

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Part I.B.4. Groundwater Monitoring Requirements

- Clarified that the monitoring should be performed using grab sampling, except for depth to groundwater, which is a measured value.
- Added monitoring requirement for *Escherichia coli* with units of CFU/100mL and a quarterly measurement frequency, as sanitary wastewater is comingled with the process wastewater.
- Listed the monitoring wells and their gradient designations, as was specified in the potentiometric surface map and the permit application.

Part I.B.6. Surface Water Monitoring

- Clarified that the BOD measurements should use the 5-day analysis method, consistent with other wastewater permits.
- Clarified that the monitoring should be performed using grab sampling.
- Added monitoring requirements for temperature and dissolved oxygen with a monthly measurement frequency, to provide context for the water quality monitoring data.
- Listed the surface waters identified in the permit application, approved DDR, and the Surface Water Sampling Plan, and included a reference to the Fact Sheet appendix containing location information.
- Added the Cox Branch north of Fields G/H to the list of surface waters to be monitored.

Part II.C. Special Conditions

- Updated the requirement that the permittee shall operate and maintain the system as described in the approved DDRs to include the recent addendum 2017 DDR for Tencate WWTP Upgrade and any other Design Development Reports or Addendum(s) subsequently approved during the term of this permit.
- Added a special condition: "The permittee will dispose of wastes at a Subtitle D Landfill, as referenced in the 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree". This special condition was requested by the permittee per their 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree.
- Added a special condition requiring the facility to submit an updated Surface Water Monitoring map within 30 days of the effective date of the permit.
- Removed the special condition to identify monitoring wells as upgradient, midfield, and downgradient, as these requirements and designations have been moved to the Part I.B.2.b of the permit.
- Removed the special condition 3.a, which required the permittee to install improvements at the site as identified in the April 2014 site assessment, as the installations have been completed.
- Removed the special condition 3.b, as the evaluation of improvements required in 3.a. has been submitted to EPD.
- Removed the special condition 4, which required the permittee to submit a Surface Water Sampling Plan, as the plan has been submitted.

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Standard Conditions & Boilerplate Modifications

The permit boilerplate includes modified language or added language consistent with other LAS permits.

Final Permit Determinations and Public Comments

☐ Final issued permit did not change from the draft permit placed on public notice.

☒ Public comments were received during public notice period.

☐ Public hearing was held on _____.

☒ Final permit includes changes from the draft permit placed on public notice. See attached permit revisions and permit fact sheet revisions.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Revisions to Draft Permit

Name of Facility TenCate Protective Fabrics/Southern Mills, Inc.

LAS Permit No. GAJ010578

Were there any revisions between the draft proposed LAS permit placed on public notice and the final proposed LAS permit? If yes, specify: ☒ Yes ☐ No

Part I.B.4 The draft proposed LAS permit that was placed on public notice listed surface water locations to be monitored. Following the public notice period, the permit was revised to include the Cox Branch north of Fields G/H in the list of surface waters to be monitored.

Part II.C.2 A special condition was added to the final proposed permit that was placed on public notice requiring the facility to submit an updated Surface Water Monitoring map within 30 days of the effective date of the permit, including the new upstream and downstream surface water monitoring locations on Cox Branch.

The permittee has been made aware of these changes.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Revisions to Draft Fact Sheet

Name of Facility TenCate Protective Fabrics/Southern Mills, Inc.

LAS Permit No. GAJ010578

Were there any revisions between the draft proposed LAS permit fact sheet placed on public notice and the final proposed LAS permit fact sheet? If yes, specify: ☒ Yes ☐ No

Section 4.2 The draft proposed LAS fact sheet that was placed on public notice listed surface water locations to be monitored. Following the public notice period, the Cox Branch north of Fields G/H was added to the list of surface waters to be monitored.

Section 4.10 A section was added to the final fact sheet describing a special condition which was added to the final proposed permit. The special condition requires the facility to submit an updated Surface Water Monitoring map within 30 days of the effective date of the permit.

Appendices The draft proposed LAS fact sheet that was placed on public notice included three appendices showing maps and diagrams pertinent to the permitted facility. The final proposed LAS permit fact sheet added to Appendix B a map showing the surface water bodies identified in the final proposed permit.

The permittee has been made aware of these changes.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1152, East Tower
Atlanta, Georgia 30334
404-463-1511

July 10, 2020

Persons who commented on
Draft LAS Permit No. GA010578

RE: EPD Response to Comments
TenCate Protective Fabrics – Southern Mills, Inc.
LAS Permit No. GAJ010578

To Whom it May Concern:

Thank you for your comments regarding the permit issuance for the TenCate Protective Fabrics – Southern Mills, Inc. LAS Permit. Attached is a summary of comments from the public and our responses to the issue raised. In addition, we have attached a summary of the revisions made to the permit and fact sheet documenting the changes made to the attached permit. We appreciate your interest in this matter.

After consideration of your comments, EPD has determined that the permit is protective of water quality standards and we have issued the permit.

If you have any questions, please contact Abigail Knapp of my staff at 404-463-0671.

Sincerely,

Audra Dickson, Manager
Wastewater Regulatory Program
Watershed Protection Branch

AHD/ask

Attachment

Public Comments and EPD Responses on Draft LAS Permit
TenCate Protective Fabrics- Southern Mills, Inc. – Permit No. GAJ010578

COMMENT RECEIVED	EPD RESPONSE
Commenter states that they own a 38 ft. deep water well which during dry periods produces groundwater with an odor. Commenter would like to know the characteristics of the effluent to the sprayfields.	The Georgia Environmental Protection Division (EPD) requires a characterization of the effluent to the sprayfields to be submitted as a part of Land Application System permit applications. The permit application submitted by TenCate Protective Fabrics/Southern Mills, Inc. (Permittee) may be viewed online at the GEOS Public Inquiry Portal at the following website: https://geos.epd.georgia.gov/GA/GEOS/Public/Client/GA_GEOS/Public/Pages/PublicApplicationList.aspx
Commenter expressed concerns about the sprayfield operation: "Was told that they were not supposed to spray when it rains but they do."	Part I.C.1.d. of the Permit includes the following condition: "Unless otherwise approved, no wastewater shall be applied when conditions are such that the applied wastewater will not be absorbed into the soil. In addition, no wastewater shall be applied via spray or drip irrigation when it's raining". The facility is expected to comply with the Permit.
Commenter expressed concerns about a strong odor which comes from the Permittee property: "I understand your permit does not address odor, however the permit should require the wastewater to be treated to a high enough level so it would not produce an objectionable odor."	EPD does not regulate odors that may come from the processing plant or the land treatment system. EPD is responsible for issuing protective, legal and enforceable permits in accordance with the Chapter 391-3-6 of the Georgia Rules and Regulations for Water Quality Control (Rules). Permits are based on the pollutant data submitted in the application and along with other supporting documents and the approved DDR. If a continuous odor is present from the wastewater treatment ponds it could be an indicator of septic wastewater being land applied as a result of several factors, such as a build-up of excessive sludge in the ponds that should be removed as part of an ongoing operational and maintenance plan. The presence of excessive odors from the wastewater treatment process can be an operational indicator for the wastewater treatment system operator.

Public Comments and EPD Responses on Draft LAS Permit
TenCate Protective Fabrics- Southern Mills, Inc. – Permit No. GAJ010578

COMMENT RECEIVED	EPD RESPONSE
"Surface water monitoring should include all streams that traverse or border the property, not just the ones that drain to Spring Creek. Cox Branch, north of fields G/H, are accessible by TenCate and should be monitored up and downstream of the sprayfields."	EPD has reviewed the surface water sampling maps and agree that Cox Branch is traversing/adjacent to the land treatment system and the surface water should be sampled, monitored, and reported. EPD has updated Part I.B.4. of the Permit to include the additional location.
"The referenced Consent Decree includes a COD and TSS limit to be met within the time limit covered by this permit…. All of these requirements should be incorporated in the renewal permit."	Comment noted. EPD is not a party to the 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree (Consent Decree); however, Part I.B.1.a. of the Permit includes effluent limits with an associated footnote. Please see the Permit for more information.
"On numerous trips past this LAS I have witnessed spray nozzles leaking effluent into puddles that run off. This occurs after the spray as stopped and appears to drain the residual effluent from the pipes but not under enough pressure to spray. This type of release should not be allowed."	EPD has included the following conditions in Part I.C.1.d. and f. of the Permit: "Unless otherwise approved, no wastewater shall be applied when conditions are such that the applied wastewater will not be absorbed into the soil. In addition, no wastewater shall be applied via spray or drip irrigation when it's raining;" The Permit requires the facility to be designed, operated, and maintained to ensure that there are no point source discharges to surface waters. The facility is expected to comply with the Permit.
"There is much confusion concerning the Public Notice. It first appeared on the EPD website as open for comment on Dec.11. Then it was posted on a bulletin board in the Upson county courthouse on Dec.14. Then in the Upson Beacon Dec.26 and again on Jan.2. Not as a "news release" as instructed, but as a legal ad. All of these postings gave a time for response as within 30 days from posting. This created a very uncertain cut off date for public response. This procedure needs to be corrected! A public hearing would give the public a better chance to express	As required in the Georgia Water Quality Control Act and the Rules, EPD's public notice process currently includes an EPD public notice posted on the EPD website, a posting at the County courthouse, and a posting in the County legal organ. The comment period ends 30 days after the latest of any of the public notice postings for the permit reissuance. The EPD public notice was posted on the EPD website in notice # 2019-22ML on December 16, 2019. The Permittee posted a public notice at the courthouse on December 17, 2019 and published the notice in the Upson Beacon

COMMENT RECEIVED	EPD RESPONSE
their concerns."	newspaper on December 26, 2019. Additionally, EPD extended the public notice period to February 14, 2020. The public notice period was 60 days. EPD reviewed the *Upson Beacon's* Thursday, January 2, 2020 issue (Volume 13, No. 1, 12 pages) and did not find any posting by the facility.
Commenter expressed concerns about carcinogens in drinking water, specifically PFAS and asked for additional information regarding the effluent.	EPD is currently focused on PFAS in drinking water systems and will conduct source tracking if needed. Additional information regarding the effluent may be viewed online at the GEOS Public Inquiry Portal at the following website: https://geos.epd.georgia.gov/GA/GEOS/Public/Client/GA_GEOS/Public/Pages/PublicApplicationList.aspx
1. Comment received on January 24, 2020: The Consent Decree requires the submittal and association of a DDR Addendum. We cannot support the permit reissuance until the DDR Addendum is received. 2. Comment received on February 14, 2020: We see that EPD has received the DDR Addendum. Accordingly, we support the permit reissuance.	Comments noted. EPD is not a party to the Consent Decree.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

EPD Director's Office
2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-656-4713

July 10, 2020

Mr. Bruce Bagwell
Plant Manager
Southern Mills, Inc.
1683 Lawrence Road
Molena, Georgia, 30258

RE: Permit Issuance
TenCate Protective Fabrics/Southern Mills, Inc.
LAS Permit No. GAJ010578
Upson County, Flint River Basin

Dear Mr. Bagwell:

Pursuant to the Georgia Water Quality Control Act, as amended, and the Rules and Regulations promulgated thereunder, we have issued the attached permit for the above-referenced facility.

Your facility has been assigned to the following EPD office for reporting and compliance. Signed copies of all required reports shall be submitted to the following address:

Environmental Protection Division
Wastewater Regulatory Program
2 Martin Luther King Jr. Drive
Suite 1152 East
Atlanta, Georgia 30334

Please be advised that on and after the effective date indicated in the permit, the permittee must comply with all terms, conditions, and limitations of the permit. If you have questions concerning this correspondence, please contact Abigail Knapp at (404) 463-0671 or abigail.knapp@dnr.ga.gov.

Sincerely,

Richard E. Dunn
Director

RED/ask

Enclosure(s)
cc: Mr. John Pippin, Environmental Manager (via email: J.Pippin@tencatefabrics.com)
EPD – Ms. Sarita Banjade (via email)

Permit No. GAJ010578
Issuance Date: July 10, 2020

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Land Treatment System Permit

In accordance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), and the Rules and Regulations promulgated pursuant thereto, this permit is issued to the following:

TenCate Protective Fabrics/Southern Mills, Inc.
1683 Lawrence Road
Molena, Georgia, 30258

to operate the land treatment system located at

TenCate Protective Fabrics/Southern Mills, Inc.
1683 Lawrence Road
Molena, Georgia, 30258
Upson County
In the Flint River Basin

in accordance with effluent limitations, monitoring requirements and other conditions set forth in the permit.

This permit is issued in reliance upon the permit application signed on May 3, 2019, any other applications upon which this permit is based, supporting data entered therein or attached thereto, and any subsequent submittal of supporting data.

This permit shall become effective on August 1, 2020.

This permit and the authorization to discharge shall expire at midnight on July 31, 2025.

STATE OF GEORGIA CONSTITUTION WISDOM JUSTICE MODERATION 1776

Richard E. Dunn, Director
Environmental Protection Division

Table of Contents

PART I.

A. CONDITIONS

1. DEFINITIONS

a. **"Composite Sample"** means a combination of at least 8 discrete sample aliquots of at least 100 milliliters, collected over periodic intervals from the same location, during the operating hours of a facility over a 24 hour period. The composite must be flow proportional.

b. **"Daily Discharge"** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day.

c. For the purposes of this permit **"Discharge of a Pollutant"** means any addition of any "pollutant" or combination of pollutants to "waters of the State" from any "point source." This definition includes additions of pollutants into waters of the State from: surface runoff which is collected or channeled by man; discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to a treatment works; and discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any "indirect discharger."

d. **"DMR"** means Discharge Monitoring Report.

e. **"EPD"** means the Environmental Protection Division of the Department of Natural Resources.

f. **"Effluent"** means wastewater that is discharged (treated or partially treated).

g. **"Grab Sample"** means an individual sample collected over a period of time not exceeding 15 minutes.

h. **"Drip Irrigation Field"** means the wetted application area or irrigation of the land treatment system or land disposal system where treated wastes, treated effluent from industrial processes, agricultural or domestic wastewater, domestic sewage sludge, industrial sludge or other sources is applied to the land using drip emitters, excluding the buffer zone.

i. **"Geometric Mean"** means the nth root of the product of n numbers.

j. **"Hydraulic Loading Rate"** means the rate at which wastes or wastewaters are discharged to a land disposal or land treatment system, expressed in volume per unit area per unit time or depth of water per unit area per unit.

k. **"Indirect Discharger"** means a nondomestic discharger introducing "pollutants" to a "publicly owned treatment works."

l. **"Industrial Wastes"** means any liquid, solid, or gaseous substance, or combination thereof, resulting from a process of industry, manufacture, or business or from the development of any natural resources.

m. **"Influent"** means wastewater, treated or untreated, that flows into a treatment plant.

n. **"Instantaneous"** means a single reading, observation, or measurement.

o. **"Land Disposal System"** means any method of disposing of pollutants in which the pollutants are applied to the surface or beneath the surface of a parcel of land and which results in the pollutants percolating, infiltrating, or being absorbed into the soil and then into the waters of the State. Land disposal systems exclude landfills and sanitary landfills but include ponds, basins, or lagoons used for disposal of wastes or wastewaters, where evaporation and/or percolation of the wastes or wastewaters are used or intended to be used to prevent point discharge of pollutants into waters of the State. Septic tanks or sewage treatment systems, as defined in Chapter 511-3-1-.02 (formally in Chapter 270-5-25-.01) and as approved by appropriate County Boards of Public Health, are not considered land disposal systems for purposes of Chapter 391-3-6-.11.

p. **"Land Treatment System"** means any land disposal system in which vegetation on the site is used for additional treatment of wastewater to remove some of the pollutants applied.

q. **"MGD"** means million gallons per day.

r. **"Monthly Average Limit"** means the highest allowable average of daily discharges over a calendar month, unless otherwise stated, calculated as an arithmetic mean of the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during the same calendar month.

s. **"OMR"** means Operating Monitoring Report.

t. **"Point Source"** means any discernible, confined, or discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

u. **"Pollutant"** means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, industrial wastes, municipal waste, and agricultural waste discharged into the waters of the state.

v. **"Quarter"** means the first three calendar months beginning with January and each group of three calendar months thereafter (also known as calendar quarters).

w. **"Quarterly Average"** means the arithmetic mean of values obtained for samples collected during a calendar quarter.

x. **"Rule(s)"** means the Georgia Rules and Regulations for Water Quality Control.

y. **"Spray Field"** means the wetted area of the land treatment system or land disposal system where treated wastes, treated effluent from industrial processes, agricultural or domestic wastewater, domestic sewage sludge, industrial sludge or other sources is applied to the land via spray, excluding the buffer zone.

z. **"Sewage"** means the water carried waste products or discharges from human beings or from the rendering of animal products, or chemicals or other wastes from residences, public or private buildings, or industrial establishments, together with such ground, surface, or storm water as may be present.

aa. **"Sewage Sludge"** means solid, semi-solid, or liquid residue generated during the treatment of domestic sewage or a combination of domestic sewage and industrial wastewater in a treatment works. Sewage sludge includes, but is not limited to scum or solids removed in primary, secondary, or advanced wastewater treatment processes. Sewage sludge does not include ash generated during the firing of sewage sludge incinerator, grit and screenings generated during preliminary treatment of domestic sewage in a treatment works, treated effluent, or materials excluded from definition of "sewage sludge" by O.C.G.A. § 12-5-30-.3(a)(1).

bb. **"Sewage system"** means sewage treatment works, pipelines or conduits, pumping stations, and force mains, and all other constructions, devices, and appliances appurtenant thereto, used for conducting sewage or industrial wastes or other wastes to the point of ultimate disposal.

cc. **"Sludge"** means any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility exclusive of the effluent from a wastewater treatment plant.

dd. **"State Act"** means the Georgia Water Quality Control Act, as amended (Official Code of Georgia Annotated; Title 12, Chapter 5, Article 2).

ee. **"Treatment System"** means the wastewater treatment facility which reduces high strength organic waste to low levels prior to the application to the spray field.

ff. **"Treatment Requirement"** means any restriction or prohibition established under the (State) Act on quantities, rates, or concentrations, or a combination thereof, of chemical, physical, biological, or other constituents which are discharged into a land disposal or land treatment system and then into the waters of the State, including but not limited to schedules of compliance.

gg. **"Water"** or **"Waters of the State"** means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and all other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

hh. **"Weekly Average Limit"** means the highest allowable average of daily discharges over a consecutive calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. The calendar week begins on Sunday at 12:00 a.m. and ends on Saturday at 11:59 p.m. A week that starts in a month and ends in another month shall be considered part of the second month.

2. MONITORING

a. REPRESENTATIVE SAMPLING

Samples and measurements taken for the purpose of monitoring shall be representative of the volume and nature of the monitored waste stream. The permittee shall maintain an updated written sampling plan and monitoring schedule.

b. SAMPLING PERIOD

1. Unless otherwise specified in this permit, quarterly samples shall be taken during the periods January-March, April-June, July-September, and October-December.

2. Unless otherwise specified in this permit, semiannual samples shall be taken during the periods January-June and July-December.

3. Unless otherwise specified in this permit, annual samples shall be taken during the period of January-December.

c. MONITORING AND ANALYZING PROCEDURES

1. All analytical methods, sample containers, sample preservation techniques, and sample holding times must be consistent with the techniques and methods listed in 40 CFR Part 136, as amended. The analytical method used shall be sufficiently sensitive. Parameters must be analyzed to the detection limits. The parameters will be reported as "not detected" or "ND" when they are below the detection limit and will then be considered in compliance with the effluent limit. The detection limit will also be reported on the DMR or OMR in accordance with Part I.A.3 of this permit.

2. In accordance with 40 CFR Part 136, as amended and as applicable, all analyses shall be made in accordance with the latest edition of Standard Methods for the Examination of Water and Wastewater, Methods for Chemical Analysis of Water and Wastes, or other approved methods.

d. ADDITIONAL MONITORING BY PERMITTEE

If the permittee monitors required parameters at the locations designated in Part I.B of this permit more frequently than required, the permittee shall analyze all samples using approved analytical methods. The results of this additional monitoring shall be included in calculating and reporting the values on the DMR and OMR. The permittee shall indicate the monitoring frequency on the report. EPD may require in writing more frequent monitoring, or monitoring of other pollutants not specified in this permit.

e. FLOW MONITORING

1. Measurements shall be conducted using the flow measuring device(s) in accordance with the approved design of the facility. If secondary flow measurement device(s) are installed, calibration shall be maintained to ± 10% of the actual flow. Flow shall be measured manually to check the flow meter calibration at a frequency of once a month. If secondary flow instruments are in use and malfunction or fail to maintain calibration as required, the flow shall be computed from manual measurements or by other method(s) approved by EPD until such time as the secondary flow instrument is repaired.

2. For facilities which utilize approved alternate technologies for measuring flow, the flow measurement device must be calibrated semi-annually by qualified personnel.

3. Records of the calibration checks shall be maintained on site in accordance with the requirements of Part. I.A.2.f. of the permit.

f. RECORDING OF RESULTS

For each measurement of sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

1. The exact place, date, and time of sampling, and the person(s) collecting the samples;
2. The dates and times the analyses were performed;
3. The person(s) who performed the analyses;
4. The analytical procedures or methods used; and
5. The results of all required analyses.

g. RECORDS RETENTION

1. The permittee shall retain records of:

   a. All laboratory analyses performed including sample data, quality control data, and standard curves;
   b. Calibration and maintenance records of laboratory instruments;
   c. Calibration and maintenance records and recordings from continuous recording instruments;
   d. Process control monitoring records;
   e. Facility operation and maintenance records;
   f. Copies of all reports required by this permit;
   g. All data and information used to complete the permit application; and
   h. All monitoring data related to sludge use and disposal.

2. All records and information resulting from the monitoring activities and record keeping requirements required by this permit and the Rules shall be retained by the permittee for a minimum of three (3) years, whereas records pertaining to sludge shall be retained for five (5) years, or longer if requested by EPD.

3. REPORTING

a. Monitoring results obtained during the calendar month shall be summarized for each month and reported on the DMR. The results of each sampling event shall be reported on an OMR and submitted as an attachment to the DMR.

1. The permittee shall submit the DMR, OMR and additional monitoring data to EPD. The required submittals shall be postmarked no later than the 15th day of the month following the reporting period.

2. All other reports required herein, unless otherwise stated, shall be submitted to the EPD Office listed on the permit issuance letter signed by the Director of EPD.

b. However, upon final approval from EPD to use the online web based NetDMR application for the submittals of DMRs and OMRs required by this permit, the permittee shall submit the DMRs and OMRs to EPD utilizing the online NetDMR submittal process. The permittee shall submit the required reports no later than 11:59 p.m. on the 15th day of the month following the reporting period.

c. All other reports required in this permit not listed above in Part I.A.3 or unless otherwise stated, shall be submitted to the EPD Office listed on the permit issuance letter signed by the Director of EPD.

4. SIGNATORY REQUIREMENTS

All reports, certifications, data or information submitted in compliance with this permit or requested by EPD must be signed and certified as follows:

a. Any State or NPDES Permit Application form submitted to the EPD shall be signed as follows in accordance with the Federal Regulations, 40 C.F.R. 122.22:

1. For a corporation, by a responsible corporate officer. A responsible corporate officer means:

   i. a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision making functions for the corporation, or

   ii. the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

3. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

b. All other reports or requests for information required by the permit issuing authority shall be signed by a person designated in (a) above or a duly authorized representative of such person, if:

1. The representative so authorized is responsible for the overall operation of the facility from which the discharge originates, e.g., a plant manager, superintendent or person of equivalent responsibility;

2. The authorization is made in writing by the person designated under (a) above; and

3. The written authorization is submitted to the Director.

c. Any changes in written authorization submitted to the permitting authority under (b) above which occur after the issuance of a permit shall be reported to the permitting authority by submitting a copy of a new written authorization which meets the requirements of (b) and (b.1) and (b.2) above.

d. Any person signing any document under (a) or (b) above 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."

5. SEWAGE SLUDGE AND SLUDGE DISPOSAL AND MONITORING

a. Sewage sludge, sludge and industrial wastes (herein referred to as "sludge" in Part I.A.4 of this permit) shall be disposed of according to the regulations and guidelines established by the EPD and the Federal Clean Water Act section 405(d) and (e), and the Resource Conservation and Recovery Act (RCRA). In land applying nonhazardous sludge, the permittee shall comply with the general criteria outlined in the most current version of EPD's "Guidelines for Land Application of Sewage Sludge (Biosolids) At Agronomic Rates" and with the State Rules, Chapter 391-3-6-.17.

Before disposing of sludge by land application or any method other than co-disposal in a permitted landfill, the permittee shall submit a Sludge Management Plan (SMP) to EPD for written approval. This plan will become a part of the Land Treatment System Permit upon issuance and/ or modification of the permit. The permittee shall notify EPD, and if applicable obtain written approval, of any changes to an approved Sludge Management Plan.

If an applicable management practice or numerical limitation for pollutants in sludge is promulgated under Section 405(d) of the Clean Water Act after approval of the SMP, then the SMP shall be modified to conform with the new regulations.

b. The permittee shall develop and implement procedures to ensure adequate year-round sludge disposal. The permittee shall monitor and maintain records documenting the quantity of sludge generated and removed from the facility.

c. The total quantity of sludge removed from the facility shall be reported on the DMR in accordance with Part I.A.3 of this permit. The total quantity shall be reported on a dry weight basis as total pounds per month.

B.1. TREATMENT REQUIREMENTS, LIMITATIONS AND MONITORING

a. The effluent shall refer to the discharge from the treatment facility to the spray field(s), as sampled from a point after the final lagoon but before the gypsum injection system, and shall be limited and monitored as follows:

Parameter (units)	Discharge Limitation Monthly Average (unless otherwise stated)	Monitoring Requirements		
		Measurement Frequency	Sample Type	Sample Location [1]
Flow (MGD)	0.51	Daily	Calculated	Effluent
Biochemical Oxygen Demand- 5-day (mg/L)	Report	Monthly	Grab	Effluent
Chemical Oxygen Demand (mg/L) *	Report	Monthly *	Grab	Effluent
Total Suspended Solids (mg/L) *	Report	Monthly *	Grab	Effluent
Total Nitrogen [2] (lbs/acre/quarter)	150.5	Monthly	Calculated	Effluent
Total Nitrogen [3] (lbs/acre/quarter)	209.75	Monthly	Calculated	Effluent
Nitrate Nitrogen (mg/L)	Report	Monthly	Grab	Effluent
Ammonia Nitrogen (mg/L)	Report	Monthly	Grab	Effluent
Total Kjeldahl Nitrogen (mg/L)	Report	Monthly	Grab	Effluent
Total Phosphorus (mg/L)	Report	Monthly	Grab	Effluent
pH (standard units)	Report minimum and maximum	Monthly	Grab	Effluent
Sodium (mg/L)	Report	Monthly	Grab	Effluent
Chlorides (mg/L)	Report	Monthly	Grab	Effluent
Specific Conductivity (µmhos/cm)	Report	Monthly	Grab	Effluent
Calcium (mg/L)	Report	Monthly	Grab	Effluent
Magnesium (mg/L)	Report	Monthly	Grab	Effluent
Potassium (mg/L)	Report	Monthly	Grab	Effluent

[1] For effluent sampling location see Fact Sheet Appendix C.
[2] North and South Zone sprayfields. See Fact Sheet Appendix A for sprayfield locations.
[3] West Zone sprayfield. See Fact Sheet Appendix A for sprayfield locations.
* During the term of the Consent Decree entered in Case No. 5:16-cv-00435-TES, the Permittee will perform bi-monthly sampling of effluent COD and TSS. The Permittee will provide written

notice to EPD when the Consent Decree has terminated, at which point the Permittee will resume monthly sampling of effluent for COD and TSS, without the need for permit modification.

b. The spray field of the land treatment system shall consist of 116 acres. The hydraulic wastewater loading to the spray field must not exceed the rates listed below:

North and South Zones

Month	*Loading, Inches/Week*
January – December	1.00

West Zone

Month	*Loading, Inches/Week*
January	1.85
February	1.67
March	1.66
April	2.37
May – October	2.50
November	2.06
December	1.97

The instantaneous application rate for the site is 0.25 inches/hour at the North and South Zone sprayfields and 0.24 inches/hour at the West Zone sprayfields. The hydraulic loading rates for each spray field shall be monitored daily and submitted to EPD in accordance with Part I.A.3 of this permit.

c. A daily log will be kept by the land treatment system operator of the gallons of wastewater sprayed on each spray field for each day and shall be submitted to EPD in accordance with Part I.A.3 of this permit.

d. A daily log will be kept by the land treatment system operator of the amount of rainfall received each day within 0.5 miles of the permitted land treatment system and shall be submitted to EPD in accordance with Part I.A.3 of this permit.

e. A written summary of pertinent maintenance for the land treatment system such as planting, cutting vegetation, harvesting, resurfacing areas, etc. shall also be included in the report and submitted in accordance with Part I.A.3 of this permit.

B.2. GROUNDWATER MONITORING REQUIREMENTS

a. Groundwater leaving the land treatment system boundary (as defined in this permit as the spray field) must not exceed the primary maximum contaminant levels for drinking water, as amended in the Safe Drinking Water Rules and Regulations. Samples of the groundwater shall be monitored from each groundwater monitoring well(s) by the permittee for the parameters and at the frequency listed below:

Parameter (units)	Measurement Frequency	Sample Type
Depth to Groundwater (feet)	Monthly	Measured
Chemical Oxygen Demand (mg/L)	Monthly	Grab
Sodium (mg/L)	Monthly	Grab
Chlorides (mg/L)	Monthly	Grab
pH (standard units)	Monthly	Grab
Nitrate Nitrogen (mg/L)[1]	Monthly	Grab
Specific Conductivity (µmhos/cm)	Monthly	Grab
Escherichia coli (CFU/100mL)[2]	Quarterly	Grab

[1] Maximum Contaminant Level for NO_3-N is 10 mg/L.
[2] Maximum Contaminant Level for *E. coli* is zero positive samples.

b. Monitoring wells shall be identified in all reports submitted to EPD as up-gradient, midfield, and down-gradient, as referenced below. The down-gradient groundwater monitoring wells shall be considered the compliance wells. The monitoring wells are identified as follows:

Monitoring Well I.D.	Designated Gradient
U1	Upgradient
U2	Upgradient
U3	Upgradient
U4	Upgradient
M1	Midfield
M2	Midfield
M3	Midfield
M4	Midfield
D1	Downgradient
D2	Downgradient
D3	Downgradient
D4	Downgradient
D5	Downgradient
D6	Downgradient
D7	Downgradient
D8	Downgradient
D9	Downgradient
D10	Downgradient
D11	Downgradient
D12	Downgradient
D13	Downgradient
D14	Downgradient

c. As per Part I.B.2 and Part II.A.8-9 of this permit, upon written notification to EPD, additional up-gradient, mid-gradient and down-gradient monitoring wells may be added in accordance with EPD's Manual for Groundwater Monitoring, September 1991, as amended, the Environmental Protection Agency Guidance Design and Installation of Monitoring Wells, or other approved guidance without EPD approval and without modification to this permit. The additional wells are subject to the sampling parameters and sampling frequency(s) in Part I.B.2 of this permit,

Groundwater Monitoring Requirements. The sampling analysis of additional wells shall be reported in accordance with Part I.A.3 of this permit.

B.3. SOIL MONITORING REQUIREMENTS

a. A Soil Fertility Test(s) shall be performed annually in the fourth (4th) calendar quarter in accordance with the latest edition of Methods of Soil Analysis (published by the American Society of Agronomy, Madison, Wisconsin) or other methods approved by EPD. Representative soil samples shall be collected from the each major soil series present within the sprayfields of the land treatment system and analyzed using the Mehlich-1 extraction procedure. Major soil series may include the Madison and Altavista series. Results of the Soil Fertility Test(s) should include soil pH, total nitrogen, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, zinc, and manganese, and shall be utilized by the permittee in the continuing operation and maintenance of the land treatment system. The sampling analysis shall be reported in accordance with Part I.A.3 of this permit.

b. If the Soil Fertility Test(s) indicates a change in the pH value of one standard unit from the previous year's pH value, the permittee shall immediately perform a Cation Exchange Capacity and Percent Base Saturation analysis for the land treatment system. The monitoring results of the Cation Exchange Capacity and Percent Base Saturation analysis shall be submitted to EPD in accordance with Part I.A.3 of this permit.

B.4. SURFACE WATER MONITORING

Surface water(s)[1] adjacent to or traversing the land treatment system shall be monitored. Unless otherwise stated and or approved by EPD, samples will be collected at a maximum of 100 feet upstream and a maximum 100 feet downstream of the land treatment system and the surface water shall be monitored for the parameters and at the frequency listed below:

Parameter (units)	Measurement Frequency	Sample Type
Biochemical Oxygen Demand-5 Day (mg/L)	Monthly	Grab
Chemical Oxygen Demand (mg/L)	Monthly	Grab
Nitrate Nitrogen (mg/L)	Monthly	Grab
Ammonia Nitrogen (mg/L)	Monthly	Grab
Total Kjeldahl Nitrogen (mg/L)	Monthly	Grab
Total Phosphorus (mg/L)	Monthly	Grab
pH (standard units)	Monthly	Grab
Sodium (mg/L)	Monthly	Grab
Chlorides (mg/L)	Monthly	Grab
Specific Conductivity (µmhos/cm)	Monthly	Grab
Temperature (°C)	Monthly	Grab
Dissolved Oxygen (mg/L)	Monthly	Grab

[1] Surface waters identified as adjacent or traversing the land treatment system are:

1. Spring Creek;
2. Unnamed tributaries to Spring Creek; and
3. Cox Branch, north of Fields G/H.

See Appendix B of the Fact Sheet for surface water body locations.

C. ADDITIONAL REQUIREMENTS

1. LAS OPERATIONS

The land treatment system will be operated and maintained in accordance with the design criteria as presented in the approved engineering reports, operation and maintenance manuals, the permit application and/or other written agreements between EPD and the permittee. This includes, but is not limited to, the following:

a. A vegetative cover must be maintained at all times on the land treatment site and must be managed according to design criteria;

b. All treatment units are to be maintained and operated for maximum efficiency;

c. Hydraulic and nitrogen loading is to be maintained within design criteria;

d. Unless otherwise approved, no wastewater shall be applied when conditions are such that the applied wastewater will not be absorbed into the soil. In addition, no wastewater shall be applied via spray or drip irrigation when it's raining; and

e. If the hydraulic application rate(s) cannot satisfactorily be handled by the approved land treatment system, corrective actions shall immediately be taken by the permittee, which could include curtailing or ceasing operation.

f. The land treatment system may not result in a point source discharge of wastewater to surface waters, as mandated in the Rules. The land treatment system must be designed, operated, and maintained to ensure there is no point source discharge(s) of pollutants to surface waters of the State.

2. CHANGE IN WASTEWATER INFLUENT

The influent to the system is authorized as long as it is consistent with the design criteria specified in the approved Design Development Report and application. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased pollutants or flow to the system must be approved by EPD prior to implementation. Submittal of a new permit application and reissuance of the Land Application System permit, as well as upgrading of the system, may be required in the process of obtaining EPD approval.

PART II.

A. MANAGEMENT REQUIREMENTS

1. FACILITY OPERATION

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. Proper operation of the land treatment system also includes the best management practice of establishing and maintaining a vegetative cover on the land treatment system.

2. NONCOMPLIANCE NOTIFICATION

If, for any reason the permittee does not comply with, or will be unable to comply with any limitations specified in the permit, the permittee shall provide EPD with an oral report within 24 hours from the time the permittee becomes aware of the circumstances followed by a written report within five (5) days of becoming aware of such condition. The written submission shall contain the following information:

a. A description of the noncompliance and its cause;

b. The period of noncompliance, including the exact date and times; or, if not corrected, the anticipated time the noncompliance is expected to continue; and

c. The steps taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.

3. ANTICIPATED NONCOMPLIANCE NOTIFICATION

The permittee shall give written notice to the EPD at least 10 days before:

a. Any planned changes in the permitted facility; or

b. Any activity which may result in noncompliance with the permit.

4. OTHER NONCOMPLIANCE

The permittee must report all instances of noncompliance not reported under other specific reporting requirements, at the time monitoring reports are submitted. The reports shall contain the information required in Part II.A.2, Noncompliance Notification, of this permit.

The permittee shall notify EPD immediately if mechanical failure, inclement weather or other factors cause a discharge of contaminated runoff from the fields or an overflow from a pond, or if any other problems occur which could cause an adverse effect on the environment.

5. OPERATOR CERTIFICATION REQUIREMENTS

The permittee shall ensure that, when required, the person in responsible charge of the daily operation of this land treatment system shall be certified in accordance with the Georgia Certification of Water and Wastewater Plant Operators and Laboratory Analysts Act, as amended, and specified by Subparagraph 391-3-6-.12 of the Georgia Rules and Regulations for Water Quality Control.

6. LABORATORY ANALYST CERTIFICATION REQUIREMENTS

The permittee shall ensure that, when required, the person(s) performing the laboratory analyses for this land treatment system is a Certified Laboratory Analyst in accordance with the Georgia Certification of Water and Wastewater Treatment Plant Operators and Laboratory Analysts Act, as amended, and the Rules promulgated thereunder.

7. POWER FAILURES

If the primary source of power to this facility is reduced or lost, the permittee shall use an alternative source of power to reduce or control all discharges to maintain permit compliance.

8. GROUNDWATER MONITORING REQUIREMENTS

a. If any groundwater samples taken from any groundwater monitoring well at the land treatment system are above the primary maximum contaminant levels for drinking water the permittee shall develop and submit a plan within 14 days of receiving sample analysis to EPD for approval which will ensure that the primary maximum contaminant levels for drinking water are not exceeded in groundwater leaving the land treatment system..

b. The permittee, upon written notification from the EPD, may be required to install groundwater monitoring wells at the existing land treatment system. This requirement may apply if monitoring wells were not included in the original design of the facility or if the EPD determines the existing groundwater monitoring wells are not adequate to assess the quality of groundwater at the facility.

c. If any pollutants which are being discharged to the land treatment system are detected in the groundwater samples taken from the compliance monitoring wells at the land treatment system pursuant to this permit in amounts or concentrations which could be toxic or otherwise harmful to humans or biota if those pollutants mingle with waters of the State, then the permittee shall immediately develop a plan

which will reduce the amounts or concentrations of the pollutants to ensure they are not toxic or otherwise harmful to humans or biota if those pollutants mingle with waters of the State.

The plan(s) will be implemented by the permittee upon EPD approval.

9. NO POINT SOURCE DISCHARGE(S) OF A POLLUTANT TO SURFACE WATERS OF THE STATE.

Land treatment system permits are not point source discharge permits to surface water regulated under the CWA, but nonpoint source permits regulated under State law. The land treatment system must be designed, operated, and maintained to ensure there is no point source discharge(s) of pollutants to surface waters of the State.

10. NOTICE CONCERNING ENDANGERING WATERS OF THE STATE

Whenever, because of an accident or otherwise, any toxic or taste and color producing substance, or any other substance which would endanger downstream users of the waters of the State or would damage property, is discharged into such waters, or is so placed that it might flow, be washed, or fall into them, it shall be the duty of the person in charge of such substances at the time to forthwith notify EPD in person or by telephone of the location and nature of the danger, and it shall be such person's further duty to immediately take all reasonable and necessary steps to prevent injury to property and downstream users of said water.

B. RESPONSIBILITIES

1. COMPLIANCE

The permittee must comply with this permit. Any permit noncompliance is a violation of the State Act, and the Rules, and is grounds for:

a. Enforcement action;

b. Permit termination, revocation and reissuance, or modification; or

c. Denial of a permit renewal application.

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

2. RIGHT OF ENTRY

The permittee shall allow the Director of EPD and/or their authorized representatives, agents, or employees, upon presentation of credentials:

a. To enter upon the permittee's premises where a regulated activity or facility is located or conducted, in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and to sample any substance or parameters at any location.

3. SUBMITTAL OF INFORMATION

The permittee shall furnish to the EPD Director, within a reasonable 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 records required to be kept by this permit. When the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts and information.

4. TRANSFER OF OWNERSHIP OR CONTROL

A permit may be transferred to another person by a permittee if:

a. The permittee notifies the Director in writing of the proposed transfer at least thirty (30) days in advance of the proposed transfer;

b. A written agreement containing a specific date for transfer of permit responsibility and coverage between the current and new permittee (including acknowledgment that the existing permittee is liable for violations up to that date, and that the new permittee is liable for violations from that date on) is submitted to the Director at least thirty (30) days in advance of the proposed transfer; and

c. The Director, within thirty (30) days, does not notify the current permittee and the new permittee of EPD's intent to modify, revoke and reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

5. PERMIT MODIFICATION

This permit may be modified, terminated, or revoked and reissued in whole or part during its term for cause including, but not limited to, the following:

a. Violation of any condition of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted activity.

The filing of a request by the permittee for a permit modification, termination, revocation and reissuance, or a notification of planned changes or anticipated noncompliance does not stay any permit conditions.

6. PENALTIES

The State Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, 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 shall, upon conviction, be punished by a fine or by imprisonment, or by both. The State Act also provides procedures for imposing civil penalties which may be levied for violations of the State Act, any permit condition or limitation established pursuant to the Act, or negligently or intentionally failing or refusing to comply with any final or emergency order of the Director of EPD.

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. CIVIL AND CRIMINAL LIABILITIES

The permittee is liable for civil or criminal penalties for noncompliance with this permit and must comply with applicable State laws, rules, and regulations.. The permit cannot be interpreted to relieve the permittee of this liability even if it has not been modified to incorporate new requirements.

8. EXPIRATION OF PERMIT

The permittee shall not operate the system after the expiration date of the permit. In order to receive authorization to operate beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the EPD no later than 180 days prior to the expiration date.

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

C. SPECIAL CONDITIONS

1. Design Development Report

The permittee shall operate and maintain the system as described in the May 1989, November 1999 and October 2008 approved Design Development Reports, the addendum 2017 *DDR for Tencate WWTP Upgrade*, and any other Design Development Reports or Addendum(s) subsequently approved during the term of this permit.

2. Surface Water Monitoring Map

The permittee shall submit an updated Surface Water Monitoring map within 30 days of the effective date of the permit, including the new upstream and downstream surface water monitoring locations on Cox Branch.

3. Disposal of Wastes

The permittee will dispose of wastes at a Subtitle D Landfill, as referenced in the 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

The Georgia Environmental Protection Division proposes to issue a Land Treatment System permit to the applicant identified below. The draft permit places conditions on the discharge of pollutants from the wastewater treatment plant to a Land Application System (LAS).

Technical Contact: Abigail Knapp (Abigail.Knapp@dnr.ga.gov)
404-463-0671

Draft permit:

- ☐ first issuance
- ☐ reissuance with no or minor modifications from previous permit
- ☒ reissuance with substantial modifications from previous permit
- ☐ modification of existing permit
- ☐ requires EPA review

1.0 FACILITY INFORMATION

1.1 LAS Permit No.: GAJ010578

1.2 Name and Address of Owner/Applicant

John Pippin
TenCate Protective Fabrics/Southern Mills, Inc.
1683 Lawrence Road
Molena, Georgia, 30258
(Upson County)

1.3 Name and Address of Facility

TenCate Protective Fabrics/Southern Mills, Inc.
1683 Lawrence Road
Molena, Georgia, 30258
(Upson County)

1.4 Location and Description of the Land Treatment System (as reported by applicant)

Average Flow	River Basin	Latitude	Longitude
0.39 MGD	Flint	32° 58' 0.5" N (32.966800)	84° 29' 26.9" W (-84.490800)

1.5 Production Capacity

0.51 Million Gallons per Day (MGD)

1.6 SIC Code & Description

SIC 2269 – Dyeing and Finishing Textiles, Not Elsewhere Classified

1.7 Design Development Report and Corrective Action Plan Approval Dates

The Design Development Report (DDR) was first submitted in April 1987 and was approved by EPD in 1988. An updated DDR was submitted in May 1989. An expansion DDR was submitted in November 1999 and approved by EPD in February 2000. A second expansion DDR was submitted in November 2008 and approved by the EPD in October 2008. An addendum DDR for a WWTP upgrade was submitted in February 2017 and approved by EPD in August 2017. Other Design Development Reports or Addendum(s) may be subsequently approved during the term of this permit and may result in a permit modification to reflect the updated information.

1.8 Description of Industrial Processes

The TenCate Protective Fabrics/Southern Mills, Inc., Molena facility generates a daily maximum of 0.51 MGD of process wastewater from its dyeing and finishing operations that produce inherently flame-resistant fabrics. The process wastewater includes a daily maximum of 0.01 MGD of comingled sanitary wastewater.

1.9 Description of the Wastewater Treatment Facility

The process wastewater flows from the facility through a bar screen and, optionally, into an emergency holding pond before passing through a second bar screen to a wet well. From the wet well, the wastewater flows to two treatment ponds in series and then to the lower and upper holding ponds. The process wastewater is then routed to one of three sprayfield zones for treatment by land application at a rate not to exceed the rates determined by the water balance in the 2008 approved DDR, as follows:

North and South Zones

Month	*Loading, Inches/Week*
January – December	1.00

West Zone

Month	*Loading, Inches/Week*
January	1.85
February	1.67
March	1.66
April	2.37
May – October	2.50
November	2.06
December	1.97

Instantaneous hydraulic loading rates are 0.25 inches/hour in the North and South Zones and 0.24 inches/hour in the West Zone, per the 2008 approved DDR.
The dedicated site for land application consists of three zones, broken further into fields, for a total of 116 wetted acres. The acreage is as follows:

South Zone

Field	*Acreage*
A	20
B	14
C	20
South Zone Total	54

North Zone

Field	*Acreage*
D	4
E	5
F	8
North Zone Total	17

West Zone

Field	*Acreage*
G	22.5
H	22.5
West Zone Total	45

1.10 Type of Wastewater Discharge

☒ process wastewater ☐ stormwater

☒ domestic wastewater ☐ combined (describe)

☐ other

2.0 APPLICABLE REGULATIONS

2.1 State Regulations

Chapter 391-3-6 of the Georgia Rules and Regulations for Water Quality Control.

3.0 DISCHARGE LIMITS AND PERMIT CONDITIONS

The discharge limits in the permit are based on the design values reported in the permit application, the EPD Guidelines, and the approved Design Development Report.

4.0 OTHER PERMIT REQUIREMENTS AND CONSIDERATIONS

4.1 Groundwater Monitoring

The intent of monitoring is to determine the influence of the land treatment system on the quality of the groundwater. Groundwater leaving the spray field boundaries must meet drinking water maximum contaminant levels (MCLs).

The groundwater leaving the land disposal system boundary, as defined for the purposes of the Groundwater Monitoring Requirements as the spray field, must not exceed the primary maximum contaminant levels for drinking water, as amended in the Safe Drinking Water Rules and Regulations.

Monitoring of the groundwater under the LAS permit requires measurements of the following parameters:

Parameter (units)
Depth to Groundwater (feet)
Chemical Oxygen Demand (mg/L)
Sodium (mg/L)
Chlorides (mg/L)
pH (standard units)
Nitrate-Nitrogen (mg/L)[1]
Specific Conductivity (µmhos/cm)
Escherichia coli (CFU/100mL)[2]

[1]Maximum Contaminant Level for NO_3-N is 10 mg/L
[2]Maximum Contaminant Level for *E. coli* is zero positive samples.

The parameters included in the permit monitoring requirements and the sampling frequency for those parameters is dependent on site conditions.

Current groundwater monitoring wells are the following:

Monitoring Well	Gradient
U1	Upgradient
U2	Upgradient
U3	Upgradient
U4	Upgradient
M1	Midfield
M2	Midfield
M3	Midfield
M4	Midfield
D1	Downgradient
D2	Downgradient
D3	Downgradient
D4	Downgradient
D5	Downgradient
D6	Downgradient
D7	Downgradient
D8	Downgradient
D9	Downgradient
D10	Downgradient
D11	Downgradient
D12	Downgradient
D13	Downgradient
D14	Downgradient

4.2 Surface Water Monitoring

Monitoring of the surface water under the LAS permit requires measurements of the following parameters:

Parameter (units)
Biochemical Oxygen Demand-5 Day (mg/L)
Chemical Oxygen Demand (mg/L)
Nitrate Nitrogen (mg/L)
Ammonia Nitrogen (mg/L)
Total Kjeldahl Nitrogen (mg/L)
Total Phosphorus (mg/L)
pH (standard units)
Sodium (mg/L)
Chlorides (mg/L)
Specific Conductivity (µmhos/cm)
Temperature (°C)
Dissolved Oxygen (mg/L)

Surface waters identified as adjacent or traversing the land treatment system are:

1. Spring Creek;
2. Unnamed tributaries to Spring Creek; and
3. Cox Branch, north of Fields G/H.

See Appendix B of this Fact Sheet for surface water body locations.

4.3 Soil Monitoring

The intent of monitoring is to determine the influence of the treated wastewater on the soil chemistry/composition. It will also aid the permittee with operation and maintenance of the land treatment system.

Representative soil samples from each major soil series within the wetted field area must be taken and analyzed, at a minimum, once per year. In particular, soil pH is an indicator of changes in soil chemistry. If the soil pH changes significantly, additional analyses may be required. Land treatment systems receiving industrial process wastes may be required

to monitor metals, salts, and priority pollutants in site soils and possibly vegetation. The parameters and frequencies will be determined on a case-by-case basis.

4.4 Compliance Schedules

The permittee shall attain compliance with all limits on the effective date of the permit.

4.5 BOD_5, COD, and TSS

The monitoring frequency for Biochemical Oxygen Demand, 5-day (BOD_5) from weekly to monthly, consistent with the Chemical Oxygen Demand (COD) monitoring frequency and with other current LAS permits. A Total Suspended Solids (TSS) reporting requirement was added to the current permit with a monthly monitoring frequency, consistent with other wastewater permits.

During the term of the Consent Decree entered in Case No. 5:16-cv-00435-TES, the Permittee will perform bi-monthly sampling of effluent COD and TSS. The Permittee will provide written notice to EPD when the Consent Decree has terminated, at which point the Permittee will resume monthly sampling of effluent for COD and TSS, without the need for permit modification.

4.6 Sludge Management Plan (SMP)

The facility has not yet dredged sludge (solids) from their ponds. In the future case of sludge removal, the sludge will be disposed of at a permitted landfill.

4.7 Sprayfield Cover Crop

The crops on the sprayfields as described in the application for permit reissuance are Coastal Bermuda grass overseeded with Cereal Rye grass.

4.8 Changes to the Land Application System

If the Land Application System undergoes any changes to the effluent or to site operations, EPD may require a reevaluation of the nitrogen budget to verify assumptions and design criteria in the approved engineering reports.

4.9 Special Considerations

The applicant is subject to a Consent Decree entered in Case No. 5:16-cv-00435-TES. Pursuant to the Consent Decree, the applicant requests that the following items are included as enforceable requirements of the permit:

a. Conduct bi-monthly sampling of Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) during the term of the Consent Decree. The results of this sampling shall be reported to EPD consistent with the reporting requirements of the Permit.

b. Installation of a sampling point after discharge from the final upper holding pond to the Land Application System (and not within the final lagoon) but before the gypsum injection system. The bi-monthly sampling required by this Section, part (a) shall be conducted from this sampling point.

c. The permittee will dispose of wastes at a Subtitle D Landfill as referenced in the 2018 Flint Riverkeeper, Inc., et al. v. Southern Mills, Inc., d/b/a TenCate Protective Fabrics Consent Decree.

4.10 Surface Water Monitoring Map

Cox Branch, a surface water adjacent to the sprayfields (Field G/H), is required to be sampled prior to it flowing into Spring Creek. EPD understands there maybe restrictions in the field which may impact the exact location for sampling, hence EPD has included a permit condition requiring the submittal of an updated Surface Water Monitoring map within 30 days of the effective date of the permit.

5.0 REPORTING

The facility has been assigned to the following EPD office for reporting, compliance and enforcement.

Georgia Environmental Protection Division
Wastewater Regulatory Program
2 Martin Luther King Jr. Drive
Suite 1152 East
Atlanta, Georgia 30334

6.0 PERMIT EXPIRATION

The permit will expire five years from the effective date.

7.0 PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

7.1 Comment Period

The Georgia Environmental Protection Division (EPD) proposes to issue a permit to this applicant subject to the discharge limitations and special conditions outlined above. These determinations are tentative.

Georgia Environmental Protection Division
Wastewater Regulatory Program
2 Martin Luther King Jr. Drive
Suite 1152 East
Atlanta, Georgia 30334

The permit application, draft permit, and other information are available for review at 2 Martin Luther King Jr. Drive, Suite 1152 East, Atlanta, Georgia 30334, between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday. For additional information, you can contact 404-463-1511.

7.2 Public Comments

Persons wishing to comment upon or object to the proposed determinations are invited to submit same in writing to the EPD address above, or via e-mail at EPDcomments@dnr.ga.gov within 30 days of the initiation of the public comment period. All comments received prior to that date will be considered in the formulation of final determinations regarding the application. The permit number should be placed on the top of the first page of comments to ensure that your comments will be forwarded to the appropriate staff.

7.3 Public Hearing

The Director shall hold a hearing if he determines that there is sufficient public interest in holding such a hearing. If a public hearing is held, notice of same shall be provided at least thirty (30) days in advance of the hearing date.

In the event that a public hearing is held, both oral and written comments will be accepted; however, for the accuracy of the record, written comments are encouraged. The Director or a designee reserves the right to fix reasonable limits on the time allowed for oral statements and such other procedural requirements, as deemed appropriate.

Following a public hearing, the Director, unless it is decided to deny the permit, may make such modifications in the terms and conditions of the proposed permit as may be appropriate and shall issue the permit.
If no public hearing is held, and, after review of the written comments received, the Director determines that a permit should be issued and that the determinations as set forth in the proposed permit are substantially unchanged, the permit will be issued and will become final in the absence of a request for a contested hearing. Notice of issuance or denial will be made available to all interested persons and those persons that submitted written comments to the Director on the proposed permit.
If no public hearing is held, but the Director determines, after a review of the written comments received, that a permit should be issued but that substantial changes in the proposed permit are warranted, public notice of the revised determinations will be given and written comments accepted in the same manner as the initial notice of application was given and written comments accepted pursuant to EPD Rules, Water Quality Control, subparagraph 391-3-6-.11(6)(b). The Director shall provide an opportunity for public hearing on the revised determinations. Such opportunity for public hearing and the issuance or denial of a permit thereafter shall be in accordance with the procedures as are set forth above.

7.4 Final Determination

At the time that any final permit decision is made, the Director shall issue a response to comments. The issued permit and responses to comments can be found at the following address:

http://epd.georgia.gov/watershed-protection-branch-permit-and-public-comments-clearinghouse-0

7.5 Contested Hearings

Any person who is aggrieved or adversely affected by the issuance or denial of a permit by the Director of EPD may petition the Director for a hearing if such petition is filed in the office of the Director within thirty (30) days from the date of notice of such permit issuance or denial. Such hearing shall be held in accordance with the EPD Rules, Water Quality Control, subparagraph 391-3-6-.01.

Petitions for a contested hearing must include the following:

1. The name and address of the petitioner;
2. The grounds under which petitioner alleges to be aggrieved or adversely affected by the issuance or denial of a permit;
3. The reason or reasons why petitioner takes issue with the action of the Director;
4. All other matters asserted by petitioner which are relevant to the action in question.

APPENDIX A – Sprayfield Locations and Names

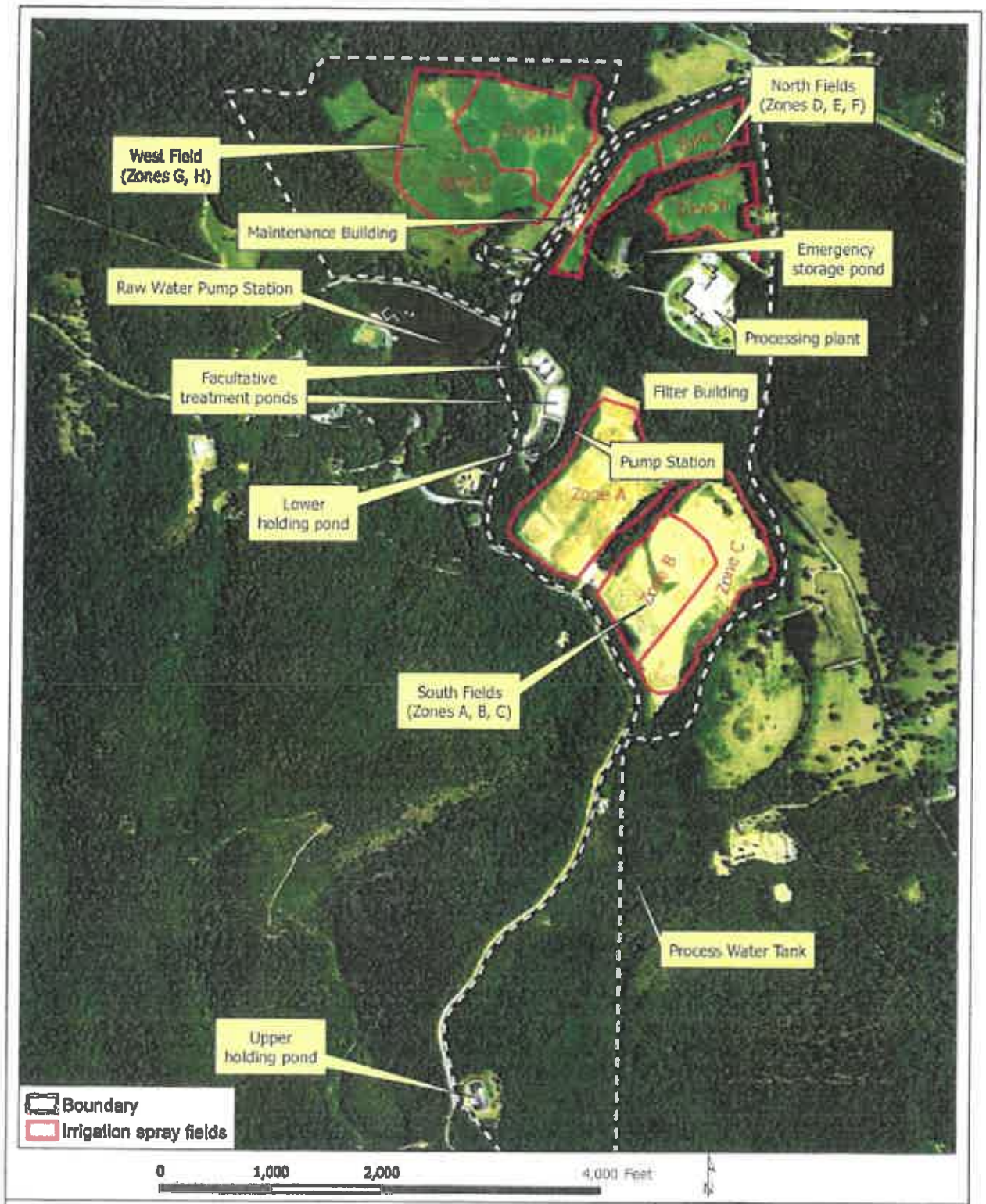
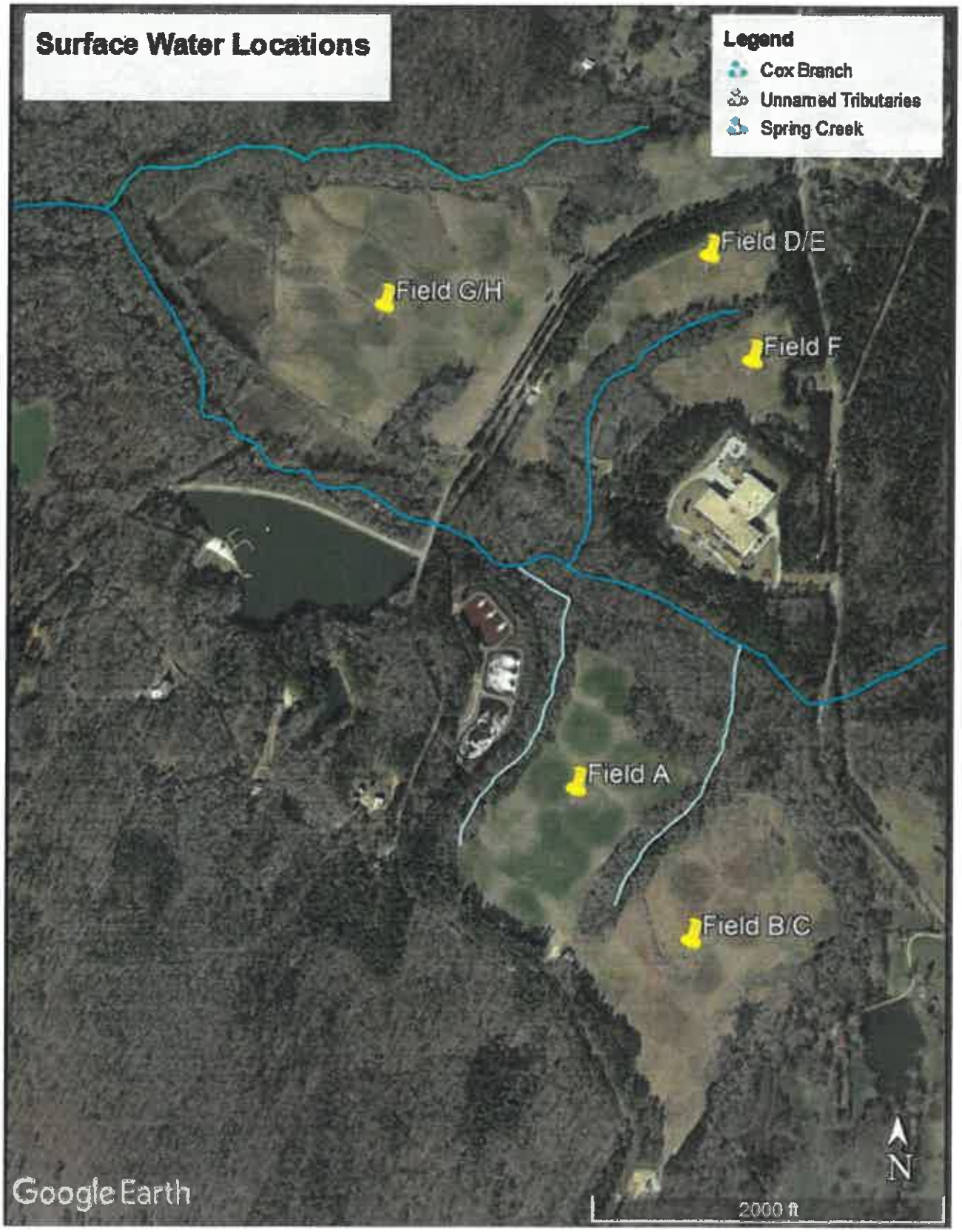


Figure 1. Location of sprayfields and pretreatment facilities, Tencate-Southern Mills land application system, Molena, Georgia.

Nutter & Associates
environmental consultants

APPENDIX B – Surface Water Body Locations



APPENDIX C – 2019 Surface Water Monitoring Locations

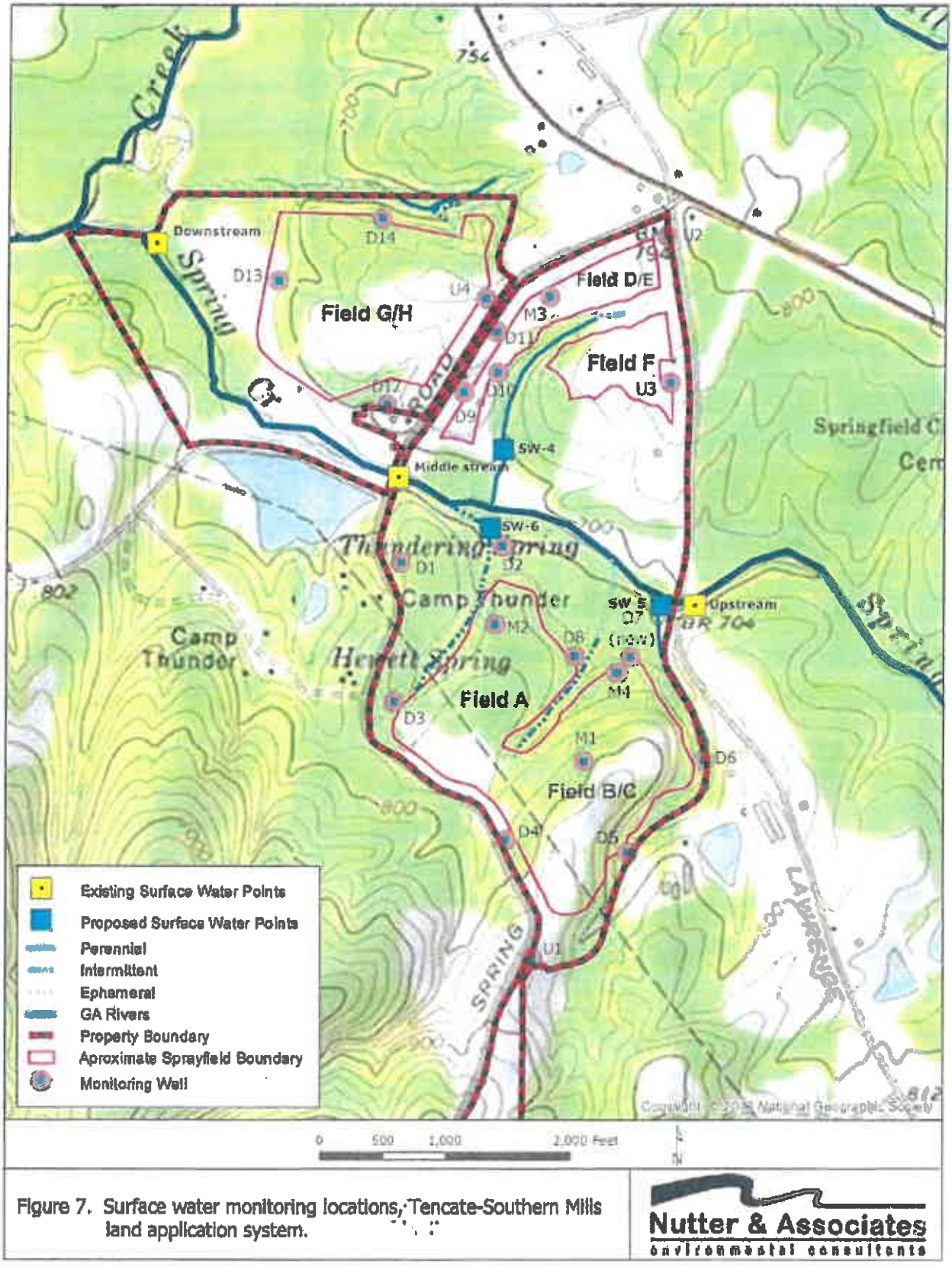


Figure 7. Surface water monitoring locations, Tencate-Southern Mills land application system.

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APPENDIX D – Flow Chart of Treatment System and Effluent Sampling Location