

### **Summary Page**

**Name of Facility:** Vineyards RV Park WPCP

**LAS Permit No.:** GAJ040052

This is an issuance of an LAS permit for Vineyards RV Park WPCP. The proposed facility will serve an RV community and will land apply up to 0.0125 MGD of treated domestic wastewater to a dedicated site in White County. The draft permit was issued on February 12, 2024 and the public comment period ended on March 25, 2024.

### **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/or permit fact sheet revision.



**Jeffrey W. Cown, Director**

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**EPD Director's Office**

2 Martin Luther King, Jr. Drive  
Suite 1456, East Tower  
Atlanta, Georgia 30334  
404-656-4713

Mr. Duane Sudderth, Owner  
Vineyards RV  
5313 Mulberry Street  
Flowery Branch, Georgia 30542

Jun 05, 2024

RE: Permit Issuance  
Vineyards RV Park  
Water Pollution Control Plant (WPCP)  
LAS Permit No. GAJ040052  
White County, Chattahoochee River Basin

Dear Mr. Sudderth:

Pursuant to the Georgia Water Quality Control Act as amended and the Rules and Regulations promulgated thereunder, we have today issued the attached Land Application System (LAS) permit for the referenced wastewater treatment facility.

Your facility has been assigned to the following EPD office for reporting and compliance:

Georgia Environmental Protection Division  
Mountain District – Cartersville Office  
16 Center Road  
Cartersville, Georgia 30121

Please be advised that on and after the effective date indicated in the attached LAS permit, the permittee must comply with all the terms, conditions and limitations of this permit.

If you have any questions, please contact Alex Gramling at (470) 524-0657 or [alex.gramling@dnr.ga.gov](mailto:alex.gramling@dnr.ga.gov).

Sincerely,

Jeffrey W. Cown  
Director

JWC/atg

Attachment: Response to Comments, Permit Revisions, LAS Permit No. GAJ040052, Fact Sheet

cc: Brian Boutelle, EPD Mountain District - Cartersville Office ([brian.boutelle@dnr.ga.gov](mailto:brian.boutelle@dnr.ga.gov))  
Larry Chapman, Larry Chapman & Associates ([lcai@tds.net](mailto:lcai@tds.net))  
Brian Britain, LAS Consulting ([brian.lasconsulting@gmail.com](mailto:brian.lasconsulting@gmail.com))  
Duane Sudderth, Vineyards RV ([duanesudderth@yahoo.com](mailto:duanesudderth@yahoo.com))  
Josh Welte, EPD Water Quality Modeling Unit ([josh.welte@dnr.ga.gov](mailto:josh.welte@dnr.ga.gov))  
Tyler Parsons, EPD TMDL Modeling & Development Unit ([Tyler.Parsons@dnr.ga.gov](mailto:Tyler.Parsons@dnr.ga.gov))

**Public Comments and EPD Responses on Draft Permit  
Vineyards RV Park Water Pollution Control Plant  
LAS Permit No. GAJ040052**

Comment	Response to Comment
<p>White County Government is strongly opposed to this application because the applicant - Duane Sudderth - has not contacted White County about this proposal and the proposal does not meet White County Code - ARTICLE II. - LOCATION OF FACILITIES ENGAGING IN THE LAND APPLICATION OF HUMAN WASTE AND SEPTAGE, OR COMMERCIAL WASTE, OR BOTH Section 50-4 through 50-12.</p> <p>Sec. 50-7 states that a special use permit and land compliance letter from White County must be received before beginning operations. Mr. Sudderth has not applied for either document and has not contacted the White County Planning office about his intentions for this type of plant at that location.</p> <p>Sec. 50-7 (a) (1) specifies that Land Application of human waste and septage be located on tracts of at least 100 acres. Mr. Sudderth's plan shows 50 acres. There are also setbacks and buffers specified in Section 50-7 (a) (5) and (6).</p> <p>White County respectfully requests that the EPD suspend any further action on this application until local regulations have been complied with.</p>	<p>The Georgia Environmental Protection Division (EPD) acknowledges this comment and notes that nothing in this permit authorizes any action that violates local ordinances. In order to further clarify this in the permit, an additional condition has been included in Part II.B.8 that states “The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.”</p>

Land Application Systems (LAS) are identified as potentially contributing to the chlorophyll-a impairment of Lake Lanier ("Final Total Maximum Daily Load Evaluation for Lake Lanier in the Chattahoochee River Basin for Chlorophyll a", section 3.2.3.2). In 2017, there were 17 permitted LAS in the Lanier Watershed. In the initial months of 2024, we are aware of 3 new proposed LAS in local or state permitting process within the upper Chattahoochee Watershed.

As this new proposed LAS is in the upper Chattahoochee watershed, we believe that additional consideration should be given for more frequent and expansive nutrient monitoring.

Groundwater water monitoring should include total phosphorus (TP) and ammonia (Draft Permit No. GAJ040052 Part I B.2).

As written, the permit requires only limited nutrient monitoring. Additional effort and attention must be given to quantifying phosphorus contributions to tributaries to the Lake Lanier Watershed. LAS are identified as potential contributors to nutrient impairments in Lake Lanier, but data quantifying the potential magnitude of their contribution is scarce. Monitoring for phosphorous and nitrogen in LAS permits will inform efforts to quantify and address contributions Lake Lanier's Chlorophyll-a impairment.

The "Final Total Maximum Daily Load Evaluation for Lake Lanier in the Chattahoochee River Bains for Chlorophyll a" (2017) identifies LAS as possible contributors. Specifically, the TMDL identifies runoff during storm events and exceeding percolation rate as possible sources of contributions to nutrients in surface waters. The Vineyards RV Park WPCP LAS consists of a septic-tank system and below ground drip irrigation. Flow monitoring and rainfall monitoring, which are both included in the permit, are the primary mechanisms for ensuring that surfacing of wastewater does not occur. Therefore, monitoring for additional parameters is not warranted at this time.

The purpose of groundwater monitoring in LAS permit is meant to verify compliance with drinking water maximum contaminant levels (MCLs) in order to be protective of sources of drinking water. Groundwater monitoring for nutrients would not be representative of potential nutrient loading to surface water, nor would it help with the identification of instances of runoff or over-application.



### Revisions to Draft Permit

**Name of Facility:** Vineyards RV Park WPCP

**LAS Permit No.:** GAJ040052

Were there any revisions between the draft proposed LAS permit placed on public notice and the final proposed LAS permit? ☒ Yes (Specify below) ☐ No

The following specific revisions were made to the proposed permit:

Part II.B.8. An additional condition has been included which states, "The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations" in response to comments on the draft permit.



### LAND APPLICATION 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:

Vineyards RV  
5313 Mulberry Street  
Flowery Branch, Georgia 30542

is authorized to operate the land treatment system located at:

Vineyards RV Park  
Water Pollution Control Plant (WPCP)  
1905 Highway 115 West  
Cleveland, Georgia 30528  
(White County)

Chattahoochee River Basin

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

This permit is issued in reliance upon the permit application signed on December 5, 2023, 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 July 1, 2024.

This permit and the authorization to discharge shall expire at midnight on June 30, 2029.



*Jeffrey W. Cown*

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Director,  
Environmental Protection Division

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## PART I

### A. CONDITIONS

#### 1. DEFINITIONS

- a. **“Composite Sample”** means a combination of at least 5 discrete sample aliquots of at least 100 milliliters, collected over periodic intervals from the same location, during the operating hours of a facility for at least 8 hours. 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. **“DMR”** means Discharge Monitoring Report.
- d. **“Drip 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.
- e. **“Effluent”** means wastewater that is discharged (treated or partially treated).
- f. **“EPD”** means the Environmental Protection Division of the Department of Natural Resources.
- g. **“Geometric Mean”** means the  $n$ th root of the product of  $n$  numbers.
- h. **“Grab Sample”** means an individual sample collected over a period of time not exceeding 15 minutes.
- i. **“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 of time.
- j. **“Indirect Discharger”** means a nondomestic discharger introducing “pollutants” to a “publicly owned treatment works.”
- k. **“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.

- l. “Influent”** means wastewater, treated or untreated, that flows into a treatment plant.
- m. “Instantaneous”** means a single reading, observation, or measurement.
- n. “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.
- o. “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.
- p. “MGD”** means **million gallons per day**.
- q. “Monthly Average”** means the arithmetic or geometric mean of values for samples collected during each calendar month.
- 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. **“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.
- z. **“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).
- aa. **“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.
- bb. **“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.

- cc. **“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.
- 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 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.
- ff. **“Treatment System”** means the wastewater treatment facility which reduces high strength organic waste to low levels prior to the application to the spray field.
- 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  $\pm 10\%$  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. The DMR and OMR and any other required forms, reports and/or information shall be completed, signed and certified by a principal executive officer or ranking elected official, or by a duly authorized representative of that person who has the authority to act for or on behalf of that person.

**4. 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 sanitary 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 tons per month when applicable.

## B.1. TREATMENT REQUIREMENTS, LIMITATIONS AND MONITORING

### Discharge from septic tank:

- a. Effluent shall refer to the discharge from the filtration system to the dripfields. The discharge shall be limited and monitored by the permittee as specified below starting on the date that EPD provides approval of construction completion and written authorization to operate under the B.1. effluent limitations (0.0125 MGD):

Parameter (units)	Discharge Limitations Monthly (Weekly) average, unless otherwise stated	Monitoring Requirements		
		Measurement Frequency	Sample Type	Sample Location
Flow (MGD)	0.0125	Seven Days/Week	Continuous	Effluent
Five-Day Biochemical Oxygen Demand (mg/L)	Report	One Day/Month	Grab	Effluent
Total Suspended Solids (mg/L)	Report	One Day/Month	Grab	Effluent
pH (standard units), Daily Minimum & Daily Maximum	Report	One Day/Month	Grab	Effluent
Nitrate, as N (mg/L)	Report	One Day/Quarter	Grab	Effluent
Total Kjeldahl Nitrogen, as N (mg/L)	Report	One Day/Quarter	Grab	Effluent

- b. The land treatment system shall consist of 3.28 acres. The hydraulic wastewater loading to each drip field must not exceed 1.12 in/week. The instantaneous application rate to each drip field must not exceed 0.14 inches/hour. The hydraulic wastewater loading and instantaneous application rate for each drip field shall be monitored/calculated 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 volume (gal) of wastewater sprayed on each drip 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 boundaries (as defined in this permit as the dripfield) must not exceed the primary maximum contaminant levels for drinking water. 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)	One Day/Month	Grab
Nitrate, as N (mg/L) <sup>(1)</sup>	One Day/Quarter	Grab
pH (standard unit)	One Day/Quarter	Grab
Specific Conductivity (µmho/cm)	One Day/Quarter	Grab
<i>Escherichia coli</i> (#/100mL) <sup>(2)</sup>	One Day/Six Months	Grab

- (1) The maximum contaminant level for nitrate nitrogen is 10.0 mg/L, as amended in the Safe Drinking Water Rules and Regulations.
- (2) The maximum contaminant level for *E. coli* is zero positive samples, as amended in the Safe Drinking Water Rules and Regulations.

- 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:

Well	Location
U-1	Up-gradient
D-1	Down-gradient

- c. As per Part I.B.2 and Part II.A.9-10 of this permit, upon written notification to EPD, additional up-gradient, mid-field 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.3 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 (4<sup>th</sup>) 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 land treatment system using the Mehlich-1 extraction procedure. Results of the Soil Fertility Test(s) 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.
- c. Where there are categorical and/or significant industrial discharges to the sewer system, the permittee may be required, upon written notification by the Division, to sample for additional parameters. These parameters may include heavy metals and organic compounds.

#### B.4. SURFACE WATER MONITORING

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

Parameter (units)	Measurement Frequency	Sample Type
Nitrate, as N (mg/L)	One Day/Quarter	Grab
Five-Day Biochemical Oxygen Demand (mg/L)	One Day/Quarter	Grab
Specific Conductivity (µmho/cm)	One Day/Quarter	Grab
pH (standard units)	One Day/Quarter	Grab
Total Kjeldahl Nitrogen (mg/L)	One Day/Quarter	Grab
Temperature (°C)	One Day/Quarter	Grab
Dissolved Oxygen (mg/L)	One Day/Quarter	Grab

(1) Surface waters as identified in the Design Development Report and permit application are:  
**Not Applicable**

**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 via spray or aboveground drip irrigation during rain or when the conditions are such that applied wastewater will not be absorbed into the soil; 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.
- f. The land treatment system may not result in a point source discharge to surface waters, as mandated in the Rules.

**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 the person in responsible charge of the daily operation of this land application system shall be a Class III Certified Operator 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 Rules and Regulations for Water Quality Control. Operators, other than the person in responsible charge, must obtain certification in Class III operator classification in accordance with the above Act.

**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. ADVERSE IMPACT**

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge disposal which might adversely affect human health or the environment.

**9. MONITORING WELL REQUIREMENTS**

The permittee, upon written notification by 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 and also, if the EPD determines the existing groundwater monitoring wells are not adequate.

## **10. GROUNDWATER REQUIREMENTS**

- a. If any groundwater samples taken from the groundwater monitoring wells at the land treatment system are above the primary maximum contaminant levels for drinking water, the permittee shall immediately develop a plan which will ensure that the primary maximum contaminant levels for drinking water are not exceeded.
- b. 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 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.

## **11. 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 operated and maintained to ensure there is no point source discharge(s) of pollutants to surface waters of the State.

## **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.

## **7. CIVIL AND CRIMINAL LIABILITIES**

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

## **8. PROPERTY RIGHTS**

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

## **9. 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.

## **10. CONTESTED HEARINGS**

Any person aggrieved or adversely affected by any action of the Director of the EPD shall petition the Director for a hearing within 30 days of notice of the action.

**11. 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 Design Development Report approved on November 29, 2023.

**PART III.**

APPROVED SLUDGE MANAGEMENT PLAN

1. The permittee's approved Sludge Management Plan allows for sewage sludge generated at the facility to be sent to a third party for further treatment and ultimate disposal.
2. The permittee will report on an annual basis the amount of sewage sludge sent to the off-site preparer during the most recent calendar year. The annual report shall be submitted to EPD no later than February 19 of the following year.
3. The permittee will maintain sludge handling records in accordance with Part I.D.6.h of the Permit.
4. The permittee will notify EPD in writing of any planned changes to the permittee's sewage sludge use or disposal practices.



## FACT SHEET

### Vineyards RV Park Water Pollution Control Plant (WPCP) LAS Permit No. GAJ040052

#### Technical Contact:

Alex Gramling, Environmental Engineer  
*alex.gramling@dnr.ga.gov*  
(470) 524-0657

#### Permit is:

- ☒ First Issuance
- ☐ Reissuance with no significant modifications
- ☐ Reissuance with modifications
- ☐ Modifications only

#### 1. Applicant Name & Address:

Vineyards RV  
5313 Mulberry Street  
Flowery Branch, Georgia 30542

#### 2. Facility Name & Location:

Vineyards RV Park Water Pollution Control Plant (WPCP)  
1905 Highway 115 West  
Cleveland, Georgia 30528  
(White County)

#### 3. River Basin:

Chattahoochee River Basin

#### 4. Description of Wastewater Treatment Facility:

The facility will consist of a large septic tank, storage tank, drip management system, disc filters, and dripfields.

Solids from septic tanks will be removed when the average level of solids reaches a point of 18 inches to 24-inches and will be disposed of by a licensed septic tank pumping contractor.

**5. Pre-treatment Plant Discharge Limitations:**

**5.1. Permitted design flow:**

0.0125 MGD

**5.2. BOD, TSS, and pH Limitations:**

BOD: Report;            TSS: Report;            pH: Report

The proposed BOD, TSS and pH limits in the draft permit are in accordance with EPD guidelines for land application of domestic wastewater.

**5.3. Nitrogen Loading:**

Quarterly monitoring for nitrate and total Kjeldahl nitrogen for the storage pond effluent has been included in the draft permit to quantify nitrogen loading to the sprayfield and verify design assumptions.

**6. Land Treatment System:**

**6.1. Application Rate and Wetted Area:**

Treated effluent is disposed of via drip irrigation:

*Crop:*

Bermuda grass and rye grass (winter)

*Wetted area:*

3.28 acres divided into 6 zones

*Application rate:*

1.12 in/week

The wetted area and the application rate in the draft permit are in accordance with the DDR approved on November 29, 2023.

*Site capacity:*

The maximum allowable flow to the drip field is as follows:

$$\begin{aligned}\text{Site capacity} &= \frac{A_{\text{Site}} (\text{acres}) \times \text{WLR} (\text{in/week}) \times 43,560 \text{ ft}^2/\text{acre} \times 7.48 \text{ gal/ft}^3}{12 \text{ in/ft}} \text{ gal/week} \\ &= \frac{3.28 \times 1.12 \times 43,560 \times 7.48}{12} \\ &= 99,747 \text{ gal/week maximum or 0.01425 MGD (7-day average)}\end{aligned}$$

## **6.2. Groundwater Monitoring Requirements:**

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).

In accordance with EPD requirements for all municipal LAS facilities, groundwater will be monitored for the following parameters:

Parameter (units)
Depth to Groundwater (feet)
Nitrate, as N (mg/L)
pH (standard units)
Specific Conductivity (µmhos/cm)
<i>Escherichia Coli</i> (#/100mL)

Based on the application submitted, it has been determined that monitoring for additional parameters is not required at this time.

Groundwater monitoring at the site is conducted in one upgradient well (U-1) and one downgradient (D-1) well.

## **6.3. Soil Monitoring Requirements:**

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.

In accordance with EPD requirements for all municipal LAS facilities, requirements to conduct soil fertility tests, as well as Cation Exchange Capacity and Percent Base Saturation analysis (depending on pH results), have been included in the draft permit.

**6.4. *Surface Water Monitoring Requirements:***

The intent of monitoring is to determine if the facility has an impact on perennial surface water adjacent to or traversing the sprayfields by comparing results from upstream and downstream samples.

Surface water, if present, will be monitored for the following parameters:

Parameter (units)
Nitrate, as N (mg/L)
Five-Day Biochemical Oxygen Demand (mg/L)
Specific Conductivity (µmho/cm)
pH (standard unit)
Total Kjeldahl Nitrogen (mg/L)
Temperature (°C)
Dissolved Oxygen (mg/L)

There are no perennial surface waters identified in the Design Development Report and permit application.

**7. *Other Permitting Considerations:***

**7.1. *Service Delivery Strategy:***

Not applicable. This is a privately-owned facility.

**7.2. *Watershed Protection Plan (WPP):***

Privately-owned facilities are not required to develop and implement a Watershed Protection Plan.

**7.3. *Sludge Management Plan (SMP):***

The permittee is requesting authorization to deliver sludge to a third party. The proposed Sludge Management Plan is acceptable and language for an approved Sludge Management Plan has been added to the draft permit.

**7.4. Industrial Pretreatment Program (IPP):**

Not applicable. This is a privately-owned facility.

**7.5. Operator Certification:**

Class III

**7.6. Compliance Schedules:**

Discharge limitations are applicable immediately upon authorization to operate the facility.

**8. Reporting**

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

Georgia Environmental Protection Division  
Mountain District – Cartersville Office  
16 Center Road  
Cartersville, Georgia 30121

**9. Procedures for the Formulation of Final Determinations**

**9.1 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.

The permit application, draft permit, and other information are available for review at 2 Martin Luther King Jr. Drive, Suite 1462 East, Atlanta, Georgia 30334, between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday and on EPD's website accessible through the publicly available Georgia EPD Online System (GEOS) at: <https://geos.epd.georgia.gov/GA/GEOS/Public/GovEnt/Shared/Pages/Main/Login.aspx>

For additional information, you can contact 404-463-1511.

**9.2 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](mailto: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.

### **9.3     *Public Hearing***

Any applicant, affected state or interstate agency, the Regional Administrator of the U.S. Environmental Protection Agency (EPA) or any other interested agency, person or group of persons may request a public hearing with respect to an LAS permit application if such request is filed within thirty (30) days following the date of the public notice for such application. Such request must indicate the interest of the party filing the request, the reasons why a hearing is requested, and those specific portions of the application or other LAS form or information to be considered at the 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). 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.

### **9.4     *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>*

## **9.5     *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.

# **FACT SHEET**

## **Appendix A**

### **Vineyards RV Park Water Pollution Control Plant NPDES Permit No. GA0040052**

Location Map

**Vineyards RV Park Water Pollution Control Plant**  
**LAS Permit No. GAJ040052**

**Prepared By: Alex Gramling**  
**Date: January 2024**



**Source: Google, 2024**