



**SIGNIFICANT INDUSTRIAL  
WASTEWATER DISCHARGE PERMIT**

PERMIT NO. 007

In accordance with all terms and conditions of the City of Barnwell's Sewer Use Ordinance, the Federal Clean Water Act (PL 95-217) and the General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403), and any future supplements and/or changes thereto, permission is hereby granted to:

Orchids Paper Products  
(Industry Name)

4826 Hunt Street, Pryor, OK 74361  
(Mailing Address)

2621  
(SIC Number(s))

285 Midfield Road, Barnwell, SC 29821  
(Location Address)

For the discharge of non-domestic wastewater into the City of Barnwell's (City's) wastewater collection system. This permit is granted in accordance with:

1. The Industrial Wastewater Survey Questionnaire/Discharge Permit Application, dated January 5, 2017.
2. Any plans, specifications, and/or other data submitted to and approved by the City and on file in the City offices; and
3. The effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on:

March 1, 2017.

**Modified effective TBD.**

This permit and authorization to discharge shall expire at midnight on December 31, 2019; unless other conditions supersede, and thus, revoke or modify this expiration date.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Waste Treatment Superintendent

Permit Modified: **TBD**

Philip Stanley, Pretreatment Coordinator

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I. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the expiration date, discharge shall be limited and monitored by the Permittee as follows:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING FREQUENCY	SAMPLE TYPE	PQL (mg/L) <sup>1</sup>
	Daily Maximum mg/L (lbs/day)	Monthly Average mg/L (lbs/day)			
Ammonia (NH <sub>3</sub> )	MR	MR	Weekly	Composite	0.1
BOD <sub>5</sub> <sup>2</sup>	250 (1,726)	250 (1,726)	Weekly	Composite	2
COD	500 (3,453)	500 (3,453)	Weekly	Composite	20
pH	6.0 Minimum	10.0 Maximum	Weekly	Grab	
TSS <sup>2</sup>	400 (2,762)	400 (2,762)	Monthly	Composite	1
Arsenic	MR (MR)	MR (MR)	Quarterly	Composite	0.005
Cadmium	MR (MR)	MR (MR)	Quarterly	Composite	0.0001
Chromium	MR (MR)	MR (MR)	Quarterly	Composite	0.005
Copper	0.05 (0.35)	0.05 (0.35)	Monthly	Composite	0.01
Cyanide	MR (MR)	MR (MR)	Quarterly	Grab	0.01
Lead	MR (MR)	MR (MR)	Quarterly	Composite	0.002
Mercury	MR (MR)	MR (MR)	Quarterly	Composite	0.002
Nickel	MR (MR)	MR (MR)	Quarterly	Composite	0.01
Oil and Grease	100 (691)	100 (691)	Monthly	Grab	5
Pentachlorophenol <sup>3</sup>	0.118 (0.815)	MR (MR)	Quarterly	Composite	0.01
Phosphorus	MR	MR	Monthly	Composite	0.05
Trichlorophenol <sup>3</sup>	0.304 (2.10)	MR (MR)	Quarterly	Composite	0.01
Zinc	0.30 (2.07)	0.30 (2.07)	Monthly	Composite	0.01

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PARAMETER	DISCHARGE LIMITATIONS		MONITORING FREQUENCY	
	Daily Maximum mg/L (lbs/day)	Monthly Average mg/L (lbs/day)		
Ceriodaphnia dubia Chronic Whole Effluent Toxicity @ CTC = 24%	MR	MR	Quarterly	Composite to coincide with WWTP schedule
FLOW	DISCHARGE LIMITATIONS		MONITORING FREQUENCY	DEVICE
	Daily Maximum gpd	Average Monthly gpd		
	828,000	828,000	Daily	Flow Meter

<sup>1</sup>PQL = Practical Quantitation Limits; Parameters must be analyzed at or below the listed PQL.

<sup>2</sup>These parameters are subject to surcharge per the City's surcharge policy for concentrations above 250 mg/L.

<sup>3</sup>Discharge subject to 40 CFR Part 430.97 Pulp, Paper, and Paperboard, Subpart I – Secondary Fiber Deink Subcategory Pretreatment Standards for New Sources (see Special Conditions) Categorical limits based on 250,000 pounds of product.

## II. SELF-MONITORING & REPORTING REQUIREMENTS

1. Samples and measurements shall be taken as required in Item I above, and shall be representative of the volume and nature of "normal" daily operations.
2. The Permittee must obtain City approval of the sampling point location prior to initiation of self-monitoring. Approved sampling point location: After the SBRs
3. Self-Monitoring shall be summarized monthly (Reporting Period) and reported on a Significant Industrial Wastewater Discharge Monitoring form provided by the City.
4. Self-Monitoring reports shall be postmarked no later than the 15th day of the month following the completed reporting period.
5. Monthly averages, for reporting purposes, shall be calculated as follows:
  - a. For monthly reporting, the monthly average shall be the arithmetic mean of all samples collected during the report month.
  - b. For quarterly reporting periods or other periods greater than one month, there shall be separate reports for each month. The monthly average shall be the arithmetic mean of all samples collected during that month. The daily maximum shall be the highest value during that month.
  - c. The term "TTO" shall mean total toxic organics, which is the summation of all quantifiable values greater than 0.01 milligrams per liter for the toxic organics listed in 40 CFR part 433.11 (e).
6. The arithmetic mean of any set of values is the summation of the individual values divided by the number of individual values.
7. Average daily flow limit expressed in this permit is the 24-hour average flow. It is determined as the arithmetic mean of total daily flow recorded during the reporting period.
8. Composite samples: One of the following four types of composite samples as defined is specified within this permit:
  - (a) An influent or effluent portion collected continuously over a specified period of time at a rate proportional to the flow.
  - (b) A combination of not less than 8 influent or effluent grab samples collected at regular (equal) intervals over a specified period of time, properly preserved, and composited by increasing the volume of each aliquot in proportion to flow. If continuous flow measurement is not used to composite in proportion to flow, the

following method will be used: Take an instantaneous flow measurement each time a grab sample is collected. At the end of the sampling period, sum the instantaneous flow measurements to obtain a total flow to determine the partial amount (percentage) of each grab sample to be combined to obtain the composite sample.

- (c) A combination of not less than 8 influent or effluent grab samples of equal volume but at variable time intervals that are inversely proportional to the volume of the flow. That is, the time interval between aliquots is reduced as the volume of flow increases.
  - (d) If flow varies by less than 15%, then a combination of not less than eight (8) influent or effluent grab samples of constant (equal) volume collected at regular (equal) time intervals over a specified period of time, while being properly preserved can be utilized.
  - (e) Continuous flow or the sum of instantaneous flows measured and averaged for the specified compositing time period shall be used with composite sample results to calculate quantity.
9. Grab Sample: An individual discrete or single influent or effluent portion of at least 100 milliliters (unless otherwise specified by Standard Methods) collected at a time representative of the discharge and over a period not exceeding 15 minutes and retained separately for analysis. Instantaneous flow measured at the time of grab sample collection shall be used to calculate quantity.
10. Test procedures for the analysis of pollutants shall conform to regulations published pursuant to 40 CFR Part 136, as amended. All tests must be performed by a SC Department of Health and Environmental Control (SCDHEC) certified laboratory.
11. For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record, at a minimum, the following information:
- a. The exact place, date, and time of sampling;
  - b. The dates the analyses were performed;
  - c. The persons who performed the analyses (including lab name and identification number; and
  - d. The analytical techniques or methods used.
12. If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified herein, the results of such monitoring shall be included in the calculation and reporting of the values required in the Industrial Wastewater Discharge Monitoring Form. Such increased frequency shall also be reported. Monitoring results developed independently by City need not be reported by the permittee in accordance with this paragraph. This

would include any split samples that City gives to the Industry to verify analytical accuracy.

13. If any self-monitoring indicates a violation of any condition of this permit, the Permittee shall notify the City within 24 hours of becoming aware of the violation. The Permittee upon taking investigative and/or corrective action shall re-sample and submit the results of the re-sampling to City within 30 days after becoming aware of the violation.
14. Industrial Wastewater Discharge Monitoring Forms, and all other reports required herein, shall be submitted to:

City of Barnwell  
ATTN: Industrial Pretreatment  
Post Office Box 776  
Barnwell, SC 29812-0776

15. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of wastewater flowrate measurements. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements is consistent with the capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ten percent from true discharge rates throughout the range of expected discharge volumes. City approval of flow measurement device type and location is required prior to installation.

### III. SPECIAL CONDITIONS

1. **Annual Permit Fee:** Includes costs associated with compliance monitoring above the required minimum of once per year.
2. Orchid Paper Products will be required to meet the effluent limits outlined in 40 CFR Part 430.97 unless Orchid Paper Products provides to the City certification that they are not using chlorophenolic-containing biocides.
3. Schedule of Compliance
  - a. The Permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

N/A

4. No later than fourteen (14) days following a date identified in the above schedule of compliance the Permittee shall submit either a report of progress or, in the case of specific actions being required by the identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the reason for noncompliance,

any remedial actions taken, the date compliance is expected, and steps being taken to return to the compliance schedule as originally set forth.

IV. GENERAL CONDITIONS

- A. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new Industrial Wastewater Survey Questionnaire/Discharge Permit Application or, if such changes will not violate the effluent limitations specified in this permit, by written notice to the City prior to implementation of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited, to change existing limits, or to add conditions to Part III, "Special Conditions" of this permit.
- B. The Permittee shall not discharge wastewater containing any of the substances listed in the City's Sewer Use Ordinance at concentrations above those specified in the Ordinance.
- C. In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the City. This permit is transferable only with prior approval by the City.
- D. The Permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this permit.
- E. If the Permittee employs the use of evaporators for the purposes of wastewater minimization, resource recovery, or for wastewater treatment, the City may require that the Permittee:
- 1) Monitor and report flow quantities and characteristics to evaporation units;
  - 2) Monitor and report quantities of residues generated by the evaporation processes, including ultimate fate of residues.

The cost of installing flow measuring devices shall be paid by the Permittee.

- F. The Permittee is required to report all slug discharges, spills, upsets, or malfunctions or bypasses of pretreatment equipment that could cause problems to City's wastewater collection and treatment facilities or that result in exceedances of discharge limitations immediately by phone at (803) 259-3266 and followed by a written report to the City, ATTN: Industrial Pretreatment, Post Office Box 776, Barnwell, SC 29812-0776. The report will be submitted within five (5) working days, and shall include the following:
1. Description and cause of the upset, slug load or accidental discharge, and the



impact on the Permittee's compliance status. The description should also include location of discharge, type, concentration and volume of waste.

2. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.
  3. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence of such an upset, slug load, accidental discharge, or other conditions of noncompliance.
- G. Bypasses of treatment facilities are prohibited in instances where exceedances of applicable effluent limitations occur. The City may take enforcement action against an Industrial User (IU) for a bypass, resulting in a permitted effluent limit violation unless;
1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.
  2. If an IU knows in advance of the need for a bypass, it shall submit prior written notice to City, if possible at least ten days before the date of the bypass.
  3. If an unanticipated bypass occurs, the IU shall submit oral notice within 24 hours from the time the IU becomes aware of the bypass. A written submission shall also be provided within five days of the time the IU becomes aware of the bypass. The written submission shall contain a description of the bypass, its cause, duration of the bypass, including exact dates and times; and if the bypass has been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- H. The Permittee will be required to submit a Slug Discharge Control Plan if the results from the City's evaluation indicate that a plan is necessary.
- I. Upon promulgation of Federal Categorical Pretreatment Standards, the City will notify the applicable industries of any additional requirements which may require modifications to or reissuance of this permit. Should the Permittee wish to contest the determination that the standards are applicable, the City will provide the necessary steps to take in contesting this determination.

Within 180 days after the effective date of Categorical Pretreatment Standard, any non-domestic discharger that will have to meet that new Standard must report to the City as described in 40 CFR Part 403.12 (b), as amended.

- J. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for good cause including, but not limited to, the following:

1. Violation of any terms or conditions of this permit, the Sewer Use Ordinance and/or the EPA General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403).
  2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.
  3. A change in any condition that requires either a temporary or permanent reduction or elimination of the regulated discharge.
  4. Falsifying self-monitoring reports, tampering with monitoring equipment, or refusing timely access to the facility premises and records.
  5. Failure to comply with effluent limitations set forth in Part I of this permit.
- K. The City may modify or reissue this permit as local, state or federal regulations change or as needed to prevent pass through or interference of the City's treatment plant or to prevent violations of the City's wastewater discharge permits or any permits to operate or manage biosolids regardless of the expiration date.
- L. Penalties for failing to submit the required reports, falsification of reports, tampering with monitoring equipment or tampering with the samples collected are established in the City's Sewer Use Ordinance.
- M. The Permittee shall allow authorized employees of the City, SCDHEC or the Environmental Protection Agency (EPA), on the premises at any time for the purposes of inspection, records examination (including photocopying of records) and sampling as connected with the City's industrial wastewater program and operation of the City's wastewater collection and treatment facilities.
- N. The Permittee is required to maintain and make available for inspection upon request all records required by 40 CFR Part 403.12. The Permittee must also maintain for a period of three years and make available for inspection upon request the following records concerning self-monitoring:
1. The date, the exact place and time, the method and the name(s) of person(s) taking samples.
  2. The date and time each analysis was performed.
  3. The name of the person performing the analysis (lab name and identification number).
  4. The analytical techniques and results of analysis.

All of the above records will be made available for copying purposes at the request of the City. The three year retention period will be extended during the course of any unresolved

litigation regarding the Permittee or when requested in writing by SCDHEC, EPA or the City.

- O. The Permittee must apply in writing for a renewal permit within the period of time not more than 90 days and not less than 60 days prior to expiration of the current permit. Provided further that limitations or conditions of a permit are subject to modification as may become necessary due to changes in applicable water quality standards, the City's NPDES permit discharge effluent limitations, other applicable law or regulation, or for other just cause. The Permittee will be notified of any proposed changes in this permit by the City at least 30 days prior to the effective date of the change. Any change or new condition in this permit shall include a provision for a reasonable time schedule for compliance. The Permittee may appeal the decision of the City in regard to any changed permit conditions. Any change in a permit condition desired by the Permittee may be requested within 90 days of the existing permit expiration date. Permittee requests for permit modifications will not be considered at any other time during the year.
- P. This permit is in addition to and does not either directly or indirectly supersede the requirements contained within the City's Sewer Use Ordinance.
- Q. The Permittee is required to notify the City immediately of any changes at its facility affecting the potential for a Slug Discharge.
- R. The City of Barnwell Sewer Use Ordinance provides that any person who violates a permit condition is subject to a civil penalty up to \$2,000 per day of such violation. Any person who willfully or negligently violates permit conditions is also subject to criminal penalties including fines of up to \$2,000 per day of violation, and/or by imprisonment for one year. The Permittee may also be subject to further sanctions imposed under the authority of State and/or Federal law.
- S. In addition to civil and criminal liability, the Permittee violating any of the provisions of this permit or the City Sewer Use Ordinance or causing damage to or otherwise inhibiting the WWTP or collection system shall be liable to the City for any expense, loss, or damage caused by such violation of discharge. The Permittee shall be billed by the City for any and all costs incurred by the City for any cleaning, repair, fines, or replacement work caused by the industrial violation or discharge. Refusal to pay the assessed costs shall be considered grounds for termination of permit and sewer service.
- T. Compliance with this permit does not relieve the Permittee from its obligations regarding compliance with any and all applicable local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.
- U. In cases of industrial pretreatment system upset, upon reduction of efficiency of the pretreatment operation, or loss or failure of all or part of the treatment facility, the Permittee shall, to the extent necessary to maintain compliance with its permit, control its

production or discharges (or both) until operation of the treatment facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce industrial production in order to maintain compliance with the condition of this permit.

- V. The Permittee shall not discharge any water or wastes which directly or indirectly cause the WWTP to violate NPDES whole effluent toxicity test requirements. Users found to be the cause of toxicity will be fined and will be required to reimburse the City for all costs associated with Toxicity Identification/Evaluation (TIE) and/or Toxicity Reduction Evaluations (TRE).
  
- W. In accordance with the United States Environmental Protection Agency General Pretreatment and National Pollutant Discharge Elimination System regulations (40 CFR Parts 122 and 403), the Permittee is required to report any discharge into our wastewater collection system, which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261. The specific notification requirements are found in 40 CFR 403.12(p). The Permittee shall notify the City, the EPA Regional Waste Management Division Director, and the Bureau of Land and Waste Management of the South Carolina Department of Health and Environmental Control.
  
- X. Acknowledgment of receipt of permit by authorized official:

I hereby certify that I am aware of, and agree to abide by, all provisions contained within Significant Industrial Wastewater Discharge Permit Number 007, dated effective October 1, 2018.

By: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_