## SARATOGA COUNTY SEWER DISTRICT NO. 1 PRETREATMENT PROGRAM

#### WASTEWATER DISCHARGE PERMIT APPLICATION AND/OR BASELINE MONITORING REPORT AND/OR QUESTIONNAIRE FOR INDUSTRIAL DISCHARGES

### GENERAL INFORMATION

Company Name:	Saratoga Biochar Solution	s, LLC
Mailing Address:	26F Congress Street #346	S, Saratoga Springs, NY 12866
Address of Premises:	Farnan Road within the M	oreau Industrial Park, Town of Moreau, N
	Tax Map IDs 504-22 and	504-16
Standard Industrial Cl	assification Code (SIC):	3999 - Manufacturing Industries
Name and Title of Sig	ning Official: Raymond Ap	y, Chief Executive Officer
Contact Official Name: Raymon	nd Apy	
Title: Chief	Executive Officer	
Address:	26F Congress Street #346	
	Saratoga Springs, NY 1286	66
Telephone:	518-391-0566	

\*\* Please read Attachment A before signing below \*\*

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete and that the sampling and analysis is representative of normal work cycles and expected pollutant discharges to the POTW. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

9/2/2022 DATE

SIGNATURE OF AUTHORIZED REPRESENTATIVE

# PLANT OPERATIONAL CHARACTERISTICS (use additional sheets if necessary)

Brief description of production, manufacturing or service activities on premises:
The solid waste management facility will manufacture a Class A carbon fertilizer
from feestock consisting of primarily biosolids sourced from wastewater treatment plants.
The manufacturing process implements drying and pyrolysis to produce the carbon fertilizer.
for use as soil fertilizer.
List the principal products or services with the appropriate 4 digit Standard Industrial Classification Code:
3999 - Manufacturing Industries
Dringing I materials (uses and the state of
Principal materials (raw materials, catalysts, intermediates) used in activities listed in question 1:
Biosolids sourced from wastewater treatment plant; wood as a minor feedstock for moisture
control.

b. If batch, the averag	following information a, batch or continuous ge number of batches / aly production of each	(or both) 24 hours product	
Product Name	Production	Number of Batches/ 24 hours	Average Monthly Production
Carbon Fertilizer	Continuous	N/A	2083 tons/mon (25,000tons/y
		-	<del></del>
5. Is there a scheduled shutdo	wn(s)?		
If yes, when? Operational	downtime is scheduled	d at 5% for sched	duled maintenance.
For what time period? 5%	of operational time		<del></del>
Is Production seasonal? No	10 mm		
If yes, explain, indicating p	roductional season mo	onth(s) of peak pr	roduction
-			

0.	Average nu	imber of en	iployees per	shift:				
	1 <sup>st</sup> 2		2 <sup>nd</sup> 2		3 <sup>rd</sup> 2			
	Shift norma	ılly worked	each day:					
	Starting Time	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.
1 <sup>st</sup>	6AM	12	12	12	12	12	12	12
$2^{\text{nd}}$	6AM	N/A	12	12	12	12	12	12
3 <sup>rd</sup>	6РМ	12	12	12	12	12	12	12
7.	Federal regular for some inc	ılations req dustries; do	uire a Spill I es your plan	Prevention t have suc	n Control an th a plan?	d Counterm	easures Plan	(SPCC)
	a. F	or Oil and	Petroleum		YES		NO	
	b. F	or Organic	Chemicals		YES		NO	
	If yes, pleas	e attach co	pies of the sp	oill contro	l plans.			
Water	Usage							
8.	Indicate wat	er source a	nd usage:					
					(I	Usage indicate unit	s)	_
	Source			ž	Average	$\frac{N}{2}$	<u>faximum</u>	
	Municipal W	Vater Suppl	y	-		Р	hase 1: 10,98 hase 2: 9,546 hase 3: 9,546	GPD .
	Wells			-				
	Other (please	e list)						
				_ :				_
								<u></u>
	711. mm					<u> </u>	700	

Type text here

	the facility will be connected to municipal		-
-			
List w	vater consumption in plant:		Consumption (Indicate Units)
	City Wastewater Sewer	960 GPD (	Office restrooms)
	Natural Outlet		
	Waste Hauler		
	Evaporation		
	Contained in Product		
	Other (in process consumption)	29,119 GPD	)
. List a	verage daily volume of discharge or water los	s to:	Average Daily Discharge or Loss (indicate units)
	City Wastewater Sewer	29,456 GPI	D
	Natural Outlet	-	
	Waste Hauler		
	Evaporation	-	
	Contained in Product	1,363 GPD	
	Other		and submitted

## WASTEWATER DISCHARGE AND TREATMENT

Outlet Name or Number*	Sewer Outlet Size (inches)	Avg. Daily Flow (indicate units)
Outfall No. 1	6 in. dia.	29,456 GPD
* Reference the outlet name or	number to the site man. If	unknove aloca iski
the outlet hame of	number to the site map. If	unknown, please indicate.
Are the wastewater discharges:		
a. Discharged during pro	oduction? If so: Intermitt	ent Continuous \
	uction (example: clean-up,	
		ent Continuous
Does your firm have a Federal F		100000°186 M
		our plant?
If so, are pretreatment standards		4
Describe any wastewater treatment.		
No wastewater treatment is p	roposed; volume contribu	ting to the wastewater
discharge stream are a result	of air treatment processe	es including Sulfur dioxide
scrubber, Bioscrubber and Ve	enturi Scrubber.	
,		

17. Are additional treatment or site facilities planned? N/a
If so, indicate the additional facilities planned and indicate approximate time table for their completion.
3. Does your firm have wastewater
Acidic (pH $\leq$ 5.5) or alkaline (pH $\geq$ 10.5) substances, (i.e. spent acid, caustic cleaning soln,) Yes (Ammonium Sulfate is recycled on site assume approx. 10% loss to sewer than the contraction of the c
Oil and grease No
Corrosive wastes (i.e. copper) No
Other metal bearing wastewater No

If so, please	indicate	in the	space	provided:
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a. Whether the waste is a by-product b. The annual amount of wastes produced c. The approximate loss of the waste to the sewer d. The approximate accidental loss of the waste to the sewer e. The average amount of the wastes stored on site A\_\_ B\_\_ C D E 640 10% (64 tons/year) **0** Acidic & Alkaline Substances N/A tons/year Oil & Grease Corrosive Wastes Other Metal Bearing Wastewater 19. If your firm has had the wastewaters analyzed to determine pollutant concentrations please indicate in Table 2 the average wastewater characteristics for all samples seen and analyzed for each connection to the sewers. If available, a copy of the laboratory analyses may be attached instead of filling out Table 2. If the plant has more than one connection fill out additional sheets. One for each connection. (see attached wastewater profile specifications sheet) For each connection for which wastewater characteristic data have been measured indicate in Table 2: a. The method of sampling (composite, flow weighted composite, or grab)

b. The duration of any composite sampling \_\_\_\_\_

c. The date(s) the samples were taken \_\_\_\_\_

d. Name of laboratory which did the analysis \_\_\_\_\_

#### **ATTACHMENT A**

According to EPA regulations [ 40 CFR 403.12 (1) ] signatories must be of sufficient stature as to enable the Sewer District to hold the facility legally responsible for the representations made in this permit application and subsequent compliance reports.

- (A) By a responsible corporate officer, if the industrial user submitting the reports is a corporation. For the purposes of this paragraph, 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:

(B) By a general partner or proprietor if the industrial user submitting the reports is a partnership or sole proprietorship respectively.

- (C) The principal executive officer or director having responsibility for the overall operation of the discharging facility if the industrial user submitting the reports is a Federal, State or local government entity, or their agents.
- (D) By a duly authorized representative of the individual designated in paragraph A, B, or C of this section if:

I. The authorization is made in writing by the individual designated in paragraph A, B or C;

II. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, such as the position of plant manager, operator of a well, or a well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and

III. The written authorization is submitted to the Sewer District.

(E) If an authorization under paragraph D of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph D of this section must be submitted to the Sewer District prior to or together with any reports to be signed by an authorized representative.

Raymond Apy, CEO (518) 391-0566
Rapy@northeasternbiochar.com

Providing Essential Services – Manufacturing Carbon Fertilizer – Benefiting Host Communities & Environment

## SBS Water & Wastewater Requirements

Note: SBS intends to recycle the wastewater from the ammonia scrubber into the carbon fertilizer to avoid nutrient discharge to the sewer. The wastewater replaces water that would otherwise be consumed from the municipality to hydrate the carbon fertilizer.

SBS Water						
	Phase 1	Phase 2	Phase 3	Total	Units	
Process	368	368	368	1,103	GPH	
Venturi Scrubber	259	259	259	778	GPH	
Sulfur Dioxide (SO2) Scrubber	74	74	74	223	GPH	
Ammonia (NH4) Scrubber	13	13	13	39	GPH	
Bioscrubber	21	21	21	63	GPH	
Office	30	5	5	40	GPH	
Truck Wash	60	25	25	110	GPH	
Total, hourly	458	398	398	1,253	GPH	
Total, daily	10,986	9,546	9,546	30,079	GPD	

	SBS Waste	water			Aleki-
	Phase 1	Phase 2	Phase 3	Total	Units
Process	391	391	391	1,174	GPH
Venturi Scrubber				-,	0, 11
Discharge	259	259	259	778	GPH
Dust (biosolids)	2.2	2.2	2.2	6.7	lbs/h
Sulfur Dioxide (SO2) Scrubber					
Discharge	92	92	92	276	GPH
Calcium Sulfite CaSO3·x(H2O)	147	147	147	440	lbs/h
Ammonia (NH4) Scrubber					
Discharge	19	19	19	57	GPH
Ammonium Sulfate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	49	49	49	146	lbs/h
Bioscrubber					
Discharge	21	21	21	64	GPH
Office	25	5	5	35	GPH
Truck Wash	25	25	25	75	GPH
Total, hourly	441	421	421	1,284	GPH
Total, daily	10,593	10,113	10,113	30,819	GPD
Total, minus NH4 Scrubber, hourly	422	402	402	1,227	CDU
Total, minus NH4 Scrubber, daily	10,139	9,659	9,659	29,456	GPH GPD