



Wastewater Challenges – FOG

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WASTEWATER CHALLENGES

- Wastewater challenges are both dynamic and unique
 - Problems with nitrification
 - See webinar from 3/25/2020 (COVID-19)
 - Problems with F:M
 - See webinar from 4/22/2020
 - **Problems with FOG**
- Fats, oils and grease
 - Natural by-product of cooking and food preparation process
 - Accumulates in collection systems and at your facility
- So what now?



FOG

- Natural by-product of cooking and food preparation process
- Exacerbated by irresponsible disposal of grease down residential/commercial drains
- Accumulates in collections systems and causes treatment issues at your facility



WHAT YOU CAN DO

- Nothing
 - Can cause damage to important infrastructure
 - Pumps, sensors and floats
 - Contributes to H₂S in collection systems (hazardous, corrosive)
 - Sewer system overflows (SSOs)
 - Filamentous bacteria love FOG
 - Foaming



WHAT YOU CAN DO

- Educate your community
 - Properly dispose of grease rather than dumping down the drain
- Create a FOG ordinance
 - Require grease traps at restaurants
- **No guarantee this will work**
 - **People love drains and toilets because things “disappear”**

Where does it go?

STEP 1 Cool oil/grease **STEP 2 Remove oil/grease from pots and pans:**

Small amount of oil & grease	Large amount of oil	Large amount of oil & grease
		
Wipe with paper towels or newspaper	Pour cooled oil into container, close lid	Scrape into container, close lid
 FOOD & COMPOST	 Place NEXT to RECYCLE cart	 GARBAGE

Cooking Oil and Grease Clog Pipes
No one wants their sewage back.

www.seattle.gov/cookingoil

 Seattle Public Utilities

WHAT YOU CAN DO

- Educate your community
 - Properly dispose of grease rather than dumping down the drain
- Create a FOG ordinance
 - Require grease traps at restaurants
- Give bacon grease to doggos
 - Every homeowner should own or adopt a FOG DOG



WHAT YOU CAN DO

- Educate your community
 - Properly dispose of grease rather than dumping down the drain
- Create a FOG ordinance
 - Require grease traps at restaurants
- Give bacon grease to doggos
 - Every homeowner should own or adopt a FOG DOG
 - Or a FAT CAT



WHAT YOU CAN DO

- Call in the big rig (Jet-vac service)
 - Expensive (\$168/hr)
 - "Band-Aid" approach
 - \$1/ft of pipe to clean a collection line



OUR RECOMMENDATION

- 1) Create a FOG ordinance (mandatory*)
- 2) Educate your community
- 3) Add live microbiology to your collections system
 - This reduces FOG both in your collections system AND at your facility

*See National Pretreatment Program 40 CFR 403



OUR RECOMMENDATION

- BioLynceus® ProBiotic Scrubber® II
 - Safely introduces a diverse population of bacteria to your wastewater facility
 - Treats your collections system AND facility at the same time



PROBIOTIC SCRUBBER® II

- ProBiotic Scrubber® II is engineered to enhance regular wastewater operations by using several different species of beneficial bacteria – IT'S ALIVE!



OUR PRODUCTS

- Available in 5-gallon pails, 30- & 55- gallon drums, 275- & 330-gallon totes
- Ready to ship today



CONTACT US

- BioLynceus is a family-owned business in Estes Park, CO
- Our business hours are M-F from 8 AM – 5 PM (Mountain Time)
- Call us today at (970) 586-3391 to talk about your wastewater challenges or visit our newly renovated website BioLynceus.net



QUESTIONS?

Public Service Announcement: Wastewater Nitrification Amid COVID-19



Biolynceus®, LLC
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Providing Microbial Solutions for Wastewater,
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Jason D. from Biolynceus, LLC
How can we help? We're here for you!

Reply to Jason D.

Chat by Drift



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