



**2020**

# Clark Regional Wastewater District Pretreatment Report



*Salmon Creek Treatment Plant at Sunset*



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Transmittal Cover

**Project:** 2020 Annual Pretreatment Report  
Industrial Pretreatment  
**Date:** February 9, 2021

To:	Attention:	No. Copies	Action Requested	Transmitted Via
Washington State Department of Ecology	Carey Cholski	1 Original 1 Copy	Records	FedEx WQWebSubmittal
Clark County SCTP	Travis Capson	1 copy	Records	USPS
City of Battle Ground	Mark Herceg	1 copy	Records	USPS
City of Vancouver	Frank Dick	1 copy	Records	USPS
City of Ridgefield	Bryan Kast	1 copy	Records	USPS

**DESCRIPTION:**

2020 Annual Pretreatment Report

**MESSAGE:**

Enclosed please find the 2020 Annual Pretreatment Report. The report describes the Clark Regional Wastewater District's Pretreatment Program for the Salmon Creek Treatment Plant during the 2020 reporting period of January 1, 2020 through December 31, 2020.

This submittal fulfills the Pretreatment Program reporting requirements as outlined in Section S6 of NPDES Permit No. WA0023639.

C: File  
Heath Henderson, District Engineer

Updated 2/9/2021



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## COVER SHEET

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NPDES Permit Holder: Clark County Department of Public Works  
Period Covered by this Report: January 1, 2020 to December 31, 2020  
Report Date: February 15, 2021

### NAME OF WASTEWATER TREATMENT PLANT

### NPDES PERMIT #

Salmon Creek Wastewater Treatment Plant  
15100 NW McCann Road  
Vancouver, WA 98685

WA – 002363-9

Person to contact concerning information in this report:

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*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

  
Authorized Signature

2/8/2021  
Date

Pretreatment Coordinator  
Title



## Mission

Providing customer-focused, professional wastewater services in an environmentally and financially responsible manner.

## Vision

To be an active partner in Clark County, to support economic development and to manage and protect water resources.

## Values

The Values of Clark Regional Wastewater District are “SERVICE”:

**S**tewardship of the environmental and financial resources entrusted to the District

**E**mployees who are talented and motivated professionals that work together in a spirit of cooperation

**R**esponsibility, integrity and fairness in every decision, every interaction and in every challenge we undertake

**V**alued partner involved and active within our communities

**I**nnovation and learning, creating an environment of personal and professional growth

**C**ommunication that is active, open, honest and timely

**E**fficient and effective solutions that are reliable, consistent and meet the needs of our communities

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## PROGRAM SUMMARY

### INTRODUCTION

The National Pollutant Discharge Elimination System Waste Discharge Permit (Permit) for the Salmon Creek Treatment Plant (SCTP), WA-0023639, issued by the Department of Ecology (Ecology), requires, § S6.A.4, that the owner/permittee provide Ecology with an annual pretreatment report of its non-delegated Pretreatment Program activities during the previous calendar year. The SCTP is owned by Discovery Clean Water Alliance (Alliance) and is operated, by agreement, by Clark County Department of Public Works. Effective January 1, 2015, the Alliance provides regional wastewater transmission and treatment services for its Members, which include the Clark Regional Wastewater District (District), Clark County, the City of Ridgefield and the City of Battle Ground. The District, via Agreement, is the Administrative Lead for the Alliance and is responsible for executive, administrative, finance/treasury, and engineering services, including oversight of the Pretreatment Program. As the local regulatory presence on behalf of the Alliance, the District surveys, monitors and inspects, as necessary, industrial users of the SCTP. The goal of the Alliance Pretreatment Program is to protect public health and the environment. The District performs inspections and monitoring activities for Significant Industrial Users (SIUs), Minor Industrial Users (MIUs) and Food Service Establishments (FSEs). Continuous surveying of new businesses is conducted throughout the year. In 2020, the SCTP was monitored in accordance with the requirements set forth in the Permit. A summary of the program activities is provided in the following sections of this report.

Figure 1 – Salmon Creek Treatment Plant Tributary Areas

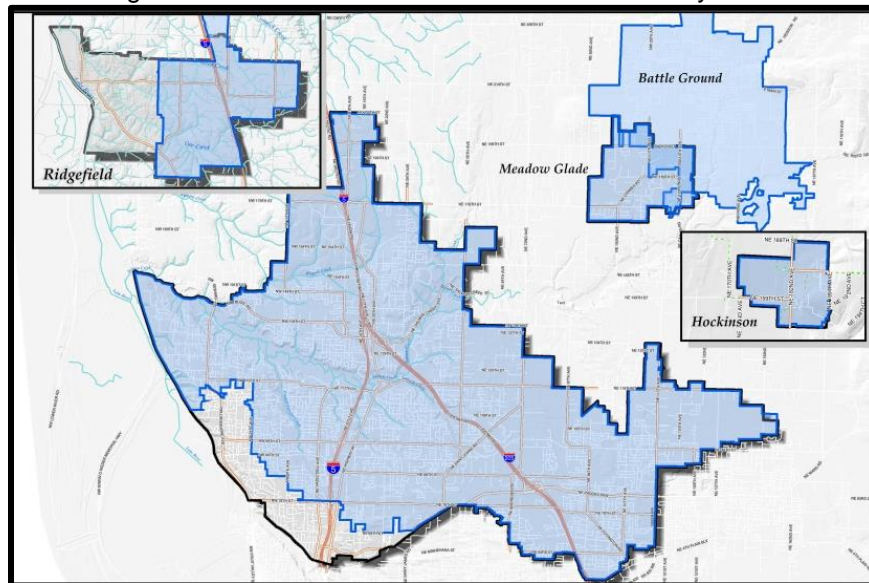


Figure 1 depicts the areas discharging into the SCTP through either the District or City of Battle Ground wastewater collection system and the Alliance regional transmission system. The Columbia River is the receiving water for all flow discharged from the Publicly Owned Treatment Works (POTW).

## **PROGRAM UPDATE**

The District has diligently performed pretreatment activities during 2020, with temporary adjustments made as required to address the COVID-19 pandemic. All SIUs were inspected and monitored, and copies of analytical results and inspection reports were forwarded to Ecology for review. During 2020, there were three (3) SIUs (see Appendix A) discharging to the SCTP. All SIUs are located within the District service area and are categorical industrial users, one (1) 40 CFR 433 Metal Finishing and two (2) 40 CFR 469 Electrical and Electronics Components.

Six (6) MIUs were also monitored during 2020 (see Appendix B). All MIUs maintained compliance with Letter of Discharge (LOD) requirements, including self-monitoring and reporting. MIUs were not inspected or sampled by District staff in 2020, due to COVID-19 precautions.

## **DELEGATION**

The District continued efforts in 2020 to develop materials for a Submission for Approval for local delegation of authority for the Alliance Pretreatment Program. Data analysis for the Local Limits Reassessment Study was completed, and draft updated limits were reviewed with Ecology and the Alliance Board of Directors. SIUs in the District service area were also notified of the delegation process and the draft limits. The reassessment report will be finalized and included in the Submission for Approval. Proposed limits will be publicly noticed as part of the delegation process, and approved limits will be adopted upon delegation.

The District also continued work on establishing a legal framework to administer the delegated program in a multijurisdictional environment. Draft documents, including updated interlocal agreements and sewer use regulations, have been developed in consultation with legal counsel, Alliance Member staff, and Ecology. These documents will be reviewed with staff and elected officials for each contributing Member (City of Battle Ground and District), as part of a local agency endorsement process, prior to program submittal.

A draft program manual for the delegated program has also been developed and will be reviewed with Alliance Member staff and Ecology in 2021. Staff will be conducting a comprehensive industrial user survey in 2021, to be included in the Submission for Approval. The District will also continue to keep permitted users informed throughout the delegation process.

## **USER NON-COMPLIANCE & ENFORCEMENT**

There were no administrative enforcement actions taken in 2020. No user non-compliance was detected or reported, and the SCTP did not experience any interference, inhibition or pass through from industrial sources.

## **INDUSTRIAL USER SURVEY**

Industries that may require wastewater discharge permits are primarily identified through review of Commercial/Industrial Pretreatment surveys. Surveys are submitted to the District and the City of Battle Ground as part of the development review process, which includes all new industrial or commercial users, as well as tenant improvements. Users are also be identified through



windshield surveys, records review, and interagency communications. All potential new users are required to submit a survey, and all surveys are reviewed by the District Pretreatment Coordinator. If any industrial user is identified as a potential SIU, the user is required to submit a Pretreatment Application form to the District. Pretreatment Applications are reviewed by the District Pretreatment Coordinator, in consultation with Ecology as needed. No new SIUs were identified during 2020. Three (3) additional MIUs were identified and monitored in 2020 (see Appendix B).

Food service establishments (FSEs) are identified through the development review process, as well as through notifications from and coordination with Clark County Public Health’s Food Safety program. A new or newly identified FSE is required to submit an FSE Survey, which is reviewed by the District Pretreatment Coordinator for compliance with grease removal requirements.

The table below provides a summary of all user survey forms reviewed in 2020.

Table 1 – Industrial User Survey Review Summary

	2020
Industrial User Surveys	61
Pretreatment Applications	2
FSE Surveys	16
<b>TOTAL</b>	<b>79</b>

## PRIORITIES AND ACCOMPLISHMENTS FOR REPORTING YEAR

### Public Education and Outreach

The District continued its education and outreach efforts in 2020 as part of the “Sewer Smart” program, which encourages users to be mindful of the discharge of Fats, Oils, Grease and Grit (FOGG), non-dispersible material, and other topics related to pollution prevention. These efforts included newsletter distribution, the Freeze the Grease program, and online and targeted outreach. No in-person events were held in 2020, due to restrictions related to the COVID-19 pandemic.



The Sewer Smart Logo

The District newsletter has continued outreach efforts focusing on pollution prevention habits that are formed at home. As in past years, each issue included a cartoon depicting the wastewater collection system and treatment process. In 2020, the newsletter also contained a multi-part series called, “You Can Make a Difference,” which highlighted specific, practical tips for making informed choices about the use and disposal of household products, conventional and emerging pollutants in the home and reminders to Be Sewer Smart and “Freeze the Grease.”

The District performs targeted outreach as necessary to areas experiencing high rates of sewer maintenance. In 2020, informational letters and “Freeze the Grease” kits were mailed to some residents, to encourage them to keep grease, wipes and other non-dispersible materials out of the wastewater system. The District also partnered with local agencies and utilized local social media platforms to distribute this information.

## **Fats, Oils, Grease and Grit (FOGG) Program**

The FOGG program is conducted by the District throughout the District's collection system and within the City of Battle Ground by Interlocal Agreement. The District administered its FOGG program in 2020, with modifications made to accommodate COVID-19 restrictions. District staff continued to inspect FSEs with exterior, accessible grease removal devices. Inspections for interior devices have been temporarily suspended due to COVID-19 related concerns. Several FSEs were visited but were unable to be inspected due to closures.

The District also continued its participation in the Preferred Pumper Program (PPP), a collaboration of local pumping companies and municipalities to share information and ensure that FSEs properly clean and maintain their grease removal devices. The District receives reports from pumpers as part of the program, that detail the condition and amount of grease in the device at time of service. These reports were used to evaluate compliance for some facilities that were unable to be physically inspected due to COVID-19.

In 2020, there were 338 active FSEs in the SCTP service area, including 63 in the City of Battle Ground and 24 in the City of Ridgefield. District staff completed 376 facility inspections, with an additional 159 attempted inspections that were unable to be completed due to facility closures. 210 FSEs received a District inspection in 2020. Additionally, 38 FSEs were evaluated based on pumpout report review, and were deemed to be compliant. FSEs will be prioritized for inspection in the upcoming year based upon their ability to be inspected, due to ongoing COVID-19 restrictions, and their compliance history in 2020.

## **Regional Coordination and Training**

In 2020, the District Pretreatment Coordinator continued to be an active member in the Oregon Association of Clean Water Agencies (ACWA) Pretreatment subcommittee, the National Association of Clean Water Agencies (NACWA) Pretreatment Committee, and the Portland Metro area's Preferred Pumper Program (PPP). The District also continued to participate in the Local Interagency Networking Cooperative (LINC), as well as the American Public Works Association (APWA) PreFOG subcommittee. The District Pretreatment Coordinator attended several virtual trainings in 2020, including the Pacific Northwest Source Control Training Association (PNSCTA) Pretreatment Workshop, the National Association of Clean Water Agencies (NACWA) National Pretreatment Conference, and the New England Regional Pretreatment Coordinators Association (NERPCA) Virtual Workshop. The Pretreatment Coordinator also is a planning committee member for the PNSCTA Pretreatment Workshop.

## PROGRAM GOALS

Listed below are the pretreatment program goals for 2021:

1. Continue program development for the Submission for Approval to Ecology for program delegation.
2. Continue to actively participate in local and regional committees to remain informed of changes in regulations and industrial processes.
3. Update procedures and implement changes to the pretreatment program as needed.
4. Continue public outreach activities.
5. Continue to work with partner agencies to advance Public Health and environmental programs in Clark County.
6. Continue to monitor and adjust program activities in compliance with all local, state and federal guidelines and requirements regarding COVID-19.

## PROGRAM RESOURCES

### PRETREATMENT STAFFING RESOURCES

1 FTE – Pretreatment Coordinator

The Pretreatment Coordinator is responsible for administration and all activities listed under the program requirements, with oversight from the Business Services Director. FOGG Inspections were completed primarily by Engineering Inspection staff in 2020. The District has additional support staff available if needed, including GIS staff, Development Review staff, maintenance/inspection staff and Administrative staff. The District currently utilizes contract laboratories in the area for analysis of treatment plant and industrial monitoring conducted throughout the year.

### PRETREATMENT EQUIPMENT INVENTORY

1	Oakton pH Meter
1	Myron L Ultra Pen PT2 pH and Temp Meter
1	Myron L Ultra Pen PT5 Dissolved Oxygen Meter
1	Sigma 900 Portable Sampler w/Accessories
2	Sigma 950 Area Velocity Flow Meter
1	2018 Nissan Frontier
1	American Sigma Composite Sampler
5	OdaLog L2
4	OdaLog RTX

## **PLANT PERFORMANCE**

### **PRIORITY POLLUTANT MONITORING**

The SCTP influent, effluent and biosolids were monitored for metals and priority pollutants in accordance with NPDES permit requirements in 2020. Analytical results are provided in Appendix D.

In accordance with the Permit, the SCTP influent and effluent are monitored quarterly for metals, and annually for other priority pollutants. In addition, SCTP staff conduct required monitoring of biosolids throughout the year. All metal concentrations were found to be below inhibition levels, and removal rates remained consistent with previous years. Other priority pollutants monitored were either non-detectable or below inhibitory concentrations.


### **BIOSOLIDS PRODUCTION**

Biosolids production data is provided in Appendix E. Total biosolids produced in 2020 was 1461 dry tons, as compared with 1282 dry tons in 2019, a 14% increase from last year.

### **LOCAL LIMIT EVALUATION**


Existing local limits were protective of water quality, beneficial biosolids reuse, and plant performance in 2020. Actual headworks loadings were compared to the Maximum Allowable Headworks Loadings (MAHLs) and were consistent with previous years. In addition, biosolids concentrations of all metals remain below the standards for Class B Biosolids land application programs.

## APPENDIX A: SIGNIFICANT INDUSTRIAL USERS

 <b>SIGNIFICANT INDUSTRIAL USERS</b>	REPORTING QUARTER	DISTRICT INSPECTIONS	DISTRICT SAMPLING	SELF-MONITORING REPORTS	LIMIT VIOLATIONS	REPORTING STATUS	Average Monthly Flow (GPD)
<b>PRO-TECH INDUSTRIES, INC.</b>	1	0	0	1	0	C	
14113 NE 3rd Court	2	0	0	1	0	C	
Vancouver, WA 98685	3	0	0	1	0	C	
WA Permit No. ST 6194, effective 11/1/18	4	1	1	1	0	C	
40 CFR Part 433.17							239
No exceedances or excursions from permit requirements were self-reported or detected during annual inspection/sampling. This SIU will be inspected and sampled in 2021.							
<b>nLIGHT PHOTONICS CORPORATION</b>	1	0	0	3	0	C	
5408 NE 88th Street	2	0	0	3	0	C	
Vancouver, WA 98665	3	0	0	3	0	C	
WA Permit No. ST 6025, effective 7/1/18	4	1	1	3	0	C	
40 CFR Part 469							2033
No exceedances or excursions from permit requirements were self-reported or detected during annual inspection/sampling. This SIU will be inspected and sampled in 2021.							
<b>IMAT INC.</b>	1	0	0	3	0	C	
12516 NE 95th Street	2	0	0	3	0	C	
Vancouver, WA 98682	3	0	0	3	0	C	
WA Permit No. ST 6162, effective 11/1/18	4	1	1	3	0	C	
40 CFR Part 469							245
No exceedances or excursions from permit requirements were self-reported or detected during annual inspection/sampling. This SIU will be inspected and sampled in 2021.							

C = Compliance; NC = Non-compliance; SNC = Significant Non-compliance; NSCIU = Non-Significant Categorical Industrial User  
 Self-Monitoring Reports indicates number of reports submitted in reporting quarter.

## APPENDIX B: MINOR INDUSTRIAL USERS

 <b>MINOR INDUSTRIAL USERS</b>	REPORTING QUARTER	DISTRICT INSPECTIONS	DISTRICT SAMPLING	SELF-MONITORING REPORTS	LIMIT VIOLATIONS	REPORTING STATUS
<b>WASTE CONNECTIONS</b>	1	0	0	1	0	C
9411 NE 94th Avenue	2	0	0	1	0	C
Vancouver, WA 98662	3	0	0	1	0	C
LOD 2-2018 expires April 30, 2023 (metals, pH, O&G, BOD, TSS, Cn)	4	0	0	1	0	C
Avg Monthly Flow (GPD): Not reported						
<b>OLDCASTLE BUILDING ENVELOPE</b>	1	0	0	3	0	C
1611 SE Commerce Avenue	2	0	0	3	0	C
Battle Ground, WA 98604	3	0	0	3	0	C
LOD 3-2018 expires October 31, 2023 (Cu, Ag, TSS, pH)	4	0	0	3	0	C
Avg Monthly Flow (GPD): 10675						
<b>PEARL SODA</b>	1	0	0	3	0	C
12019 NE 99th St, Suite 1710	2	0	0	1	0	C
Vancouver, WA 98682	3					
LOD 2-2019 expired April 30, 2020; production suspended in March 2020 and LOD not renewed (flow, pH)	4					
Avg Monthly Flow (GPD): 20						
<b>QUARTZ DISTILLERS</b>	1					
4601 NE 78 <sup>th</sup> Street, Suite 210	2					
Vancouver, WA 98686	3					
LOD 2-2020 issued June 1, 2020; expires May 31, 2021 (flow, pH)	4					
Avg Monthly Flow (GPD): 21						
<b>FRESENIUS MEDICAL CARE</b>	1					
3921 SW 13 <sup>th</sup> Avenue	2					
Battle Ground, WA 98604	3					
LOD 3-2020 issued June 10, 2020; expires June 9, 2021 (pH, metals)	4					
Avg Monthly Flow (GPD): Not reported						
<b>ANDERSEN DAIRY</b>	1					
305 E Main Street	2					
Battle Ground, WA 98604	3					
LOD 4-2020 issued November 13, 2020; expires November 14, 2021 (spill plan updates; flow and pollutant monitoring to be conducted in 2021)	4					
Avg Monthly Flow (GPD): TBD						

Compliance: NC = Non-compliance; SNC = Significant Non-compliance; NSCIU = Non-Significant Categorical Industrial User  
 Self-Monitoring Reports indicates number of reports submitted in reporting quarter.



## APPENDIX C: FSE SURVEY FORM



### FOOD SERVICE ESTABLISHMENT GREASE REMOVAL DEVICE SURVEY

*Please see directions for completing this form on the reverse side.*

1. Facility Name: \_\_\_\_\_
2. Facility Contact: \_\_\_\_\_
3. Mailing/Billing Address: \_\_\_\_\_
4. Contact Telephone Number: \_\_\_\_\_ 5. Facility Telephone Number: \_\_\_\_\_
6. Email Address: \_\_\_\_\_
7. Facility Address: \_\_\_\_\_
8. Establishment Type:

<input type="checkbox"/> Bakery	<input type="checkbox"/> Daycare	<input type="checkbox"/> School Cafeteria
<input type="checkbox"/> Brewery	<input type="checkbox"/> Fast Food	<input type="checkbox"/> Sports Grill
<input type="checkbox"/> Coffeehouse	<input type="checkbox"/> Grocery	<input type="checkbox"/> Steakhouse
<input type="checkbox"/> Commercial Cafeteria	<input type="checkbox"/> Hotel	<input type="checkbox"/> Winery
<input type="checkbox"/> Convenience Store	<input type="checkbox"/> Pizzeria	
<input type="checkbox"/> Corporate Cafeteria	<input type="checkbox"/> Restaurant	

9. Hours of Operation: \_\_\_\_\_ 10. Seating Capacity: \_\_\_\_\_
11. Meals Served: Breakfast  Lunch  Dinner  Lounge  12. Number of Meals Served Per Day: \_\_\_\_\_
13. Is There Food Preparation on the Premises: Yes  No  If No, skip to bottom of page, sign and submit.

14. Food Type (Check all that apply):

<input type="checkbox"/> Asian	<input type="checkbox"/> Ice Cream	<input type="checkbox"/> Pizza	<input type="checkbox"/> Southern
<input type="checkbox"/> Barbecue	<input type="checkbox"/> Italian	<input type="checkbox"/> Sandwich/Soup	<input type="checkbox"/> Western
<input type="checkbox"/> Burgers	<input type="checkbox"/> Mexican	<input type="checkbox"/> Seafood	
<input type="checkbox"/> Doughnuts/Pastries	<input type="checkbox"/> Middle Eastern	<input type="checkbox"/> Smoothies	
<input type="checkbox"/> Other: _____			

15. Number of Fixtures:

<input type="checkbox"/> Deep Fryers	<input type="checkbox"/> Tilt Kettles	<input type="checkbox"/> 3-Compartment Sinks	<input type="checkbox"/> Floor Sinks
<input type="checkbox"/> Grills	<input type="checkbox"/> Wok Ranges	<input type="checkbox"/> Dishwashers	<input type="checkbox"/> Low Temp Sanitizer
<input type="checkbox"/> Ovens	<input type="checkbox"/> 1-Compartment Sinks	<input type="checkbox"/> Garbage Disposals	<input type="checkbox"/> Pre-Wash Sinks
<input type="checkbox"/> Stove	<input type="checkbox"/> 2-Compartment Sinks	<input type="checkbox"/> Floor Drains	<input type="checkbox"/> Mop Sinks
<input type="checkbox"/> Other: _____			

16. Grease Removal Device (GRD) Location/Type (Include additional devices in blank boxes):

Location	Size	Manufacturer / Model <small>(if unknown, leave blank)</small>
Exterior Grease Inceptor	<input type="checkbox"/> Gal <input type="checkbox"/> lb. <input type="checkbox"/> gpm	
Interior Under Sink Trap	<input type="checkbox"/> Gal <input type="checkbox"/> lb. <input type="checkbox"/> gpm	
Interior Floor Trap	<input type="checkbox"/> Gal <input type="checkbox"/> lb. <input type="checkbox"/> gpm	
	<input type="checkbox"/> Gal <input type="checkbox"/> lb. <input type="checkbox"/> gpm	
	<input type="checkbox"/> Gal <input type="checkbox"/> lb. <input type="checkbox"/> gpm	

17. GRD Cleaning Frequency (How often do you clean the GRD?):

<input type="checkbox"/> Daily	<input type="checkbox"/> Bi-Weekly	<input type="checkbox"/> Weekly
<input type="checkbox"/> Monthly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Annually

18. Who Cleans GRD?  Self  Vendor/Contractor 19. Date of Last Cleaning: \_\_\_\_\_
20. GRD Service Company: \_\_\_\_\_
21. Yellow/Fryer Grease Rendering Container on Site? Yes  No
22. Yellow/Fryer Grease Rendering Company: \_\_\_\_\_

I, \_\_\_\_\_ certify that to the best of my knowledge the above information is correct  
*(Print Name and Title)*

\_\_\_\_\_  
*(Signature)*

\_\_\_\_\_  
*(Date)*

## APPENDIX D: SCTP MONITORING DATA

Total Metals per EPA 200 series									
1st Quarter 2020									
CAS ID#	Influent Sampled: 3/11/20				Effluent Sampled: 3/11/20				Percent Removal
	Results in mg/L (except Hg)								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00159	0.00100		Arsenic	0.00137	0.00100		14%
7440-41-7	Beryllium	ND	0.000200		Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.000200		Cadmium	ND	0.000200		NA
7440-47-3	Chromium	ND	0.00100		Chromium	ND	0.00100		NA
7440-50-8	Copper	0.0250	0.00100		Copper	0.00706	0.00100		72%
7439-92-1	Lead	0.000355	0.000200		Lead	ND	0.000200		72%
7439-97-6	Mercury (ng/L)	14.3	0.5000		Mercury (ng/L)	2.01	0.5000		86%
7439-98-7	Molybdenum	0.00107	0.00100		Molybdenum	ND	0.00100		53%
7440-02-0	Nickel	0.00140	0.00100		Nickel	0.00104	0.00100		26%
7782-49-2	Selenium	ND	0.00100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000107	0.000020		Silver	0.000011	0.000020	J	90%
7440-28-0	Thallium	ND	0.000200		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.0634	0.00400		Zinc	0.0444	0.00400		30%
Total Metals per EPA 200 series / HG per EPA 1631E									
2nd Quarter 2020									
CAS ID#	Influent Sampled: 6/4/20				Effluent Sampled: 6/4/20				Percent Removal
	Results in mg/L (except Hg)								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00178	0.00100		Arsenic	0.00143	0.00100		20%
7440-41-7	Beryllium	ND	0.000020		Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.000200		Cadmium	ND	0.000200		NA
7440-47-3	Chromium	0.00104	0.00100		Chromium	ND	0.00100		52%
7440-50-8	Copper	0.0268	0.00200		Copper	0.0126	0.00200		53%
7439-92-1	Lead	0.000573	0.000200		Lead	0.000216	0.000200		62%
7439-97-6	Mercury (ug/L)	0.0176	0.0005		Mercury (ug/L)	0.0014	0.0005		92%
7439-98-7	Molybdenum	0.00141	0.00100		Molybdenum	ND	0.00100		65%
7440-02-0	Nickel	ND	0.00400		Nickel	ND	0.00400		NA
7782-49-2	Selenium	ND	0.00100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000078	0.000020		Silver	ND	0.000020		87%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.0712	0.00400		Zinc	0.0381	0.00400		46%

Total Metals per EPA 200 series									
3rd Quarter 2020									
CAS ID#	Influent Sampled: 9/2/20				Effluent Sampled: 9/2/20				Percent Removal
	Results in mg/L (except Hg)								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00178	0.00100		Arsenic	0.00117	0.00100		34%
7440-41-7	Beryllium	ND	0.000020		Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.000200		Cadmium	ND	0.000200		NA
7440-47-3	Chromium	0.00183	0.00100		Chromium	ND	0.00100		73%
7440-50-8	Copper	0.0408	0.00200		Copper	0.00437	0.00200		89%
7439-92-1	Lead	0.00122	0.0010		Lead	ND	0.00100		59%
7439-97-6	Mercury (ng/L)	28.4	0.5		Mercury (ng/L)	1.5	0.5		95%
7439-98-7	Molybdenum	0.0114	0.00100		Molybdenum	ND	0.00100		96%
7440-02-0	Nickel	0.00267	0.00200		Nickel	ND	0.00200		63%
7782-49-2	Selenium	ND	0.00100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000189	0.000020		Silver	ND	0.000020		95%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.159	0.00400		Zinc	0.0381	0.00400		76%
Total Metals per EPA 200 series / HG per EPA 1631E									
4th Quarter 2020									
CAS ID#	Influent Sampled: 12/3/20				Effluent Sampled: 12/3/20				Percent Removal
	Results in mg/L (except Hg)								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00212	0.00100		Arsenic	0.00147	0.00100		31%
7440-41-7	Beryllium	0.000016	0.000020	J	Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.000200		Cadmium	ND	0.000200		NA
7440-47-3	Chromium	0.00155	0.00100		Chromium	ND	0.00100		68%
7440-50-8	Copper	0.0509	0.00200		Copper	0.0197	0.00200		61%
7439-92-1	Lead	0.000861	0.000200		Lead	ND	0.000200		88%
7439-97-6	Mercury (ug/L)	0.01340	0.0005		Mercury (ug/L)	0.00183	0.0005		86%
7439-98-7	Molybdenum	0.00154	0.00100		Molybdenum	ND	0.00100		68%
7440-02-0	Nickel	0.00228	0.00200		Nickel	ND	0.00200		56%
7782-49-2	Selenium	ND	0.00100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000157	0.000020		Silver	0.000010	0.000020	J	94%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.134	0.00400		Zinc	0.0396	0.00400		70%

< - 1/2 of the detection limit was used for all non-detectable data in percent removal calculations

CAS ID#	Parameter	EPA Method	mg/kg dry	mg/kg dry	mg/kg/dry	mg/kg dry	mg/kg dry	mg/kg dry
	Biosolids		Event 1	Event 2	Event 3	Event 4	Event 5	Event 6
			1/30/2020	3/10/2020	5/14/2020	7/14/2020	9/16/2020	11/16/2020
7429-90-5	Aluminum	6010C	4730	NT	NT	NT	NT	NT
7440-36-0	Antimony	6020A	1.86	0.193	2.12	1.84	1.41	2.29
7440-38-2	Arsenic	6020A	5.7	0.63	4.7	4.7	3.9	4.6
7440-39-3	Barium	6020A	165	NT	NT	NT	NT	NT
7440-41-7	Beryllium	6020A	0.12	<0.014	0.13	0.10	<0.11	<0.15
7440-42-8	Boron	6010C	38	NT	NT	NT	NT	NT
7440-43-9	Cadmium	6020A	1.1	0.116	1.3	0.997	0.8	1.09
7440-47-3	Chromium	6020A	21	2.4	21.3	15.3	18.6	14.1
7440-47-3	Chromium VI	7196A	51.7	<4.1	<3.5	5.8	<5.4	<3.7
7440-48-4	Cobalt	6020A	2.8	NT	NT	NT	NT	NT
7440-50-8	Copper	6020A	361	43.7	293	280	211	269
7439-89-6	Iron	6010C	5980	NT	NT	NT	NT	NT
7439-92-1	Lead	6020A	8.3	0.942	7.88	7.19	6.42	8.05
7439-95-4	Magnesium	6010C	9610	NT	NT	NT	NT	NT
7439-96-5	Manganese	6020A	167	NT	NT	NT	NT	NT
7439-97-6	Mercury	7471B	1.720	0.234	0.920	1.56	1.21	0.35
7439-98-7	Molybdenum	6020A	11.2	1.24	15.1	11.6	52.9	27.8
7440-02-0	Nickel	6020A	17.0	1.86	18.6	12.3	16.2	12.1
7782-49-2	Selenium	6020A	8.6	0.92	8.1	7.0	<5.7	<7.3
7440-22-4	Silver	6020A	4.1	0.397	2.70	2.78	2.57	1.71
7440-28-0	Thallium	6020A	0.34	<0.014	<0.13	0.093	<0.11	<0.15
7440-31-5	Tin	6020A	37.5	NT	NT	NT	NT	NT
7440-32-6	Titanium	6010C	214	NT	NT	NT	NT	NT
7440-66-6	Zinc	6020A	973	112	835	865	670	827
<b>Conventional</b>								
57-12-5	Cyanide	9010B	1.03	NT	NT	NT	<0.58	NT
7723-14-0	Phosphorus	6010B	24300	23600	NT	NT	63800	27400
7664-36-0	Ammonia-N	500-NH3 G Mod	17300	16000	12900	18800	9100	20100
	Total Kjeldahl Nitrogen	351.4	113000	107000	86700	92400	94800	124000
	Total Solids	SM 2540 G	10.9	11.8	13	12.8	17.2	12.9
	Total Volatile Solids	SM 2540 G	79.8	78.7	78.3	76.7	59.4	77.8
14797-65-0	Nitrite-Nitrogen	353.2M	<2.2	<2	<1.9	2.2	1.5	<1.9
14797-55-8	Nitrate-Nitrogen	353.2M	<2.3	<2	<1.9	<1.7	<1.5	<1.9
	pH (SU)	150.1	7.66	7.82	7.53	7.92	7.57	7.87
14808-79-8	Sulfate	300.0	961	NT	NT	NT	NT	NT
	Sulfide	PSEP SID	1390	NT	NT	NT	NT	NT
16984-48-8	Fluoride	300.0	<34	NT	NT	NT	NT	NT
24687-31-8	Bromide	300.0	<18	NT	NT	NT	NT	NT
18496-25-8	Sulfide	9030B	1390	NT	NT	NT	NT	NT
64743-03-9	Phenolics	420.1	<1.8	NT	NT	NT	NT	NT
68153-81-1	Oil and Grease (T)	9071B	38400	45700	NT	NT	30100	NT
<b>Polybrominated Diphenyl Ethers</b>								
<b>ug/kg dry</b>								
	PBDE 85	8270D	<11	NT	NT	NT	NT	NT
	PBDE 99	8270D	200	NT	NT	NT	NT	NT
	PBDE 100	8270D	42	NT	NT	NT	NT	NT
	PBDE 203	8270D	<11	NT	NT	NT	NT	NT
	PBDE 209	8270D	680	NT	NT	NT	NT	NT

NT = Not Tested

CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal	Biosolids
		9/2/20		9/2/20			1/30/20
CAS ID#	<i>Semivolatile Organic Compounds per EPA Method 625/8270B</i>	ug/l		ug/l		(%)	mg/kg
<b>Acid and Base/Neutrals</b>							
83-32-9	Acenaphthene'	< 0.449		< 0.0377		N/A	<11
208-96-8	Acenaphthylene'	< 0.449		< 0.0377		N/A	<11
120-12-7	Anthracene'	< 0.449		< 0.0377		N/A	<11
92-87-5	Benzidine'	< 22.5		< 1.89	Q-52	N/A	<68
56-55-3	Benzo (a) Anthracene'	< 0.449		< 0.0377		N/A	<11
50-32-8	Benzo (a) Pyrene'	< 0.674		< 0.0566		N/A	<11
205-99-2	Benzo (b) fluoroanthene'	< 0.674		< 0.0566		N/A	<11
207-08-9	Benzo (k) fluoranthene'	< 0.674		< 0.0566		N/A	<11
191-24-2	Benzo (ghi) perylene'	< 0.449		< 0.0377		N/A	<11
111-91-1	Bis(2-chloroethoxy) methane'	< 1.12		< 0.0943		N/A	<11
111-44-4	Bis (2-chloroethyl )ether'	< 1.12		< 0.0943		N/A	<11
117-81-7	bis (2-ethylhexyl)phthalate'	25.1		4.74		81%	<11
117-81-7	bis (2-ethylhexyl)phthalate' (see * below)	45.3		< 1.520		98%	N/A
101-55-3	4-Bromophenyl phenyl ether'	< 1.12		< 0.0943		N/A	<11
85-68-7	Butyl benzyl phthalate'	< 8.99		< 0.755		N/A	<11
91-58-7	2-Chloronaphthalene'	< 0.449	Q-30	< 0.0377	Q-30	N/A	<11
7005-72-3	4-Chlorophenyl phenyl ether'	< 1.12		< 0.0943		N/A	<11
218-01-9	Chrysene'	< 0.449		< 0.0377		N/A	<11
53-70-3	Dibenz (a,h) anthracene'	< 0.449		< 0.0377		N/A	<11
91-94-1	3,3'-Dichlorobenzidine'	< 22.5	Q-52	< 1.89	Q-52	N/A	<11
84-66-2	Diethyl phthalate'	< 8.99		< 0.755		N/A	<11
131-11-3	Dimethyl phthalate'	< 8.99		< 0.755		N/A	<11
84-74-2	Di-n-butyl phtalate'	< 8.99		< 0.755		N/A	<11
606-20-2	2,6-Dinitrotoluene'	< 4.49		< 1.13	R-02	N/A	<11
117-84-0	Di-n-octyl phthalate'	< 8.99		< 0.755		N/A	<11
206-44-0	Flouranthene'	< 0.449		< 0.0377		N/A	<11
86-73-7	Fluorene'	< 0.449		< 0.0377		N/A	<11
118-74-1	Hexachlorobenzene'	< 0.449		< 0.0377		N/A	<11
87-68-3	Hexachlorobutadiene'	< 1.12		< 0.0943		N/A	<11
77-47-4	Hexachlorocyclopentadiene'	< 2.25		< 0.189		N/A	<11
67-72-1	Hexachloroethane'	< 1.12		< 0.0943		N/A	<11
193-39-5	Indeno (1,2,3-cd) Pyrene'	< 0.449		< 0.0377		N/A	<11
78-59-1	Isophorone'	< 1.12		< 0.0943		N/A	<11
91-20-3	Napthalene'	< 0.899		< 0.0755		N/A	<11
98-95-3	Nitrobenzene'	< 4.49		< 0.377		N/A	<11
62-75-9	N-Nitrosodimethylamine'	< 1.12		< 0.0943		N/A	<68
621-64-7	N-Nitrosodi-n-Propylamine'	< 4.49	R-02	< 0.189		N/A	<11
55-18-5	N-Nitrosodiphenylamine'	< 1.12		< 0.0943		N/A	<11
85-01-8	Phenanthrene'	< 0.449		< 0.0755		N/A	<11
129-00-0	Pyrene'	< 0.449		< 0.0377		N/A	<11
120-82-1	1,2,4-Trichlorobenzene'	< 1.12		< 0.0943		N/A	<11
<b>Acid Compounds</b>							
95-57-8	2-chlorophenol	< 2.250		< 0.189		N/A	<11
120-83-2	2,4 Dichlorophenol	< 2.25		< 0.189		N/A	<11
105-67-9	2,4-Dimethylphenol	< 2.25		< 0.189		N/A	<11
51-28-5	2,4-Dinitrophenol	< 11.2		< 0.943		N/A	<68
88-75-5	2-Nitrophenol	< 4.49		< 0.377		N/A	<11
100-02-7	4-Nitrophenol	< 4.49		< 0.377		N/A	<68
87-86-5	Pentachlorophenol	4.610	J	< 0.377		96%	<68
108-95-2	Phenol	10.600	J	< 0.755		96%	<11
88-06-2	2,4,6-Trichlorophenol	< 2.25		< 0.189		N/A	<11

Tentatively Identified Compounds (TICs)							
000083-47-6	.gamma.-Sitosterol	34		< 0.75		N/A	N/A
000112-75-4	1-Tetradecanamine, N,N-dimethyl-	39		< 0.75		N/A	N/A
026533-36-8	2-Nonadecanol	30		< 0.75		N/A	N/A
035953-54-9	2-Tetradecene, (E)-	55		< 0.75		N/A	N/A
000112-79-8	9-Octadecenoic acid, (E)-	410		< 0.75		N/A	N/A
000103-82-2	Benzeneacetic acid	76		< 0.75		N/A	N/A
000503-74-2	Butanoic acid, 3-methyl-	31		< 0.75		N/A	N/A
000058-08-2	Caffeine	38		< 0.75		N/A	N/A
016732-86-8	Cholest-4-ene	22		< 0.75		N/A	N/A
000080-97-7	Cholestanol	84		0.75		N/A	N/A
000057-88-5	Cholesterol	84		0.96		99%	N/A
000294-62-2	Cyclododecane	27		0.75		N/A	N/A
000295-65-8	Cyclohexadecane	79		0.75		N/A	N/A
000143-07-7	Dodecanoic acid	44		0.75		N/A	N/A
000122-99-6	Ethanol, 2-phenoxy-	33		0.75		N/A	N/A
000149-57-5	Hexanoic acid, 2-ethyl-	65		0.75		N/A	N/A
000501-52-0	Hydrocinnamic acid	15		0.75		N/A	N/A
000057-10-3	n-Hexadecanoic acid	540		0.75		N/A	N/A
000111-02-4	Squalene	170		0.75		N/A	N/A
000544-63-8	Tetradecanoic acid	86		0.75		N/A	N/A
001520-42-9	Benzene, 1,1,1-(1-ethanyl-2-yl)	ND		2.3		N/A	N/A
000078-51-3	Ethanol, 2-butoxy-, phosphate (3:1)	ND		1.3		N/A	N/A
010543-57-4	N,N,N,N-Tetraacetythylenediami	ND		0.81		N/A	N/A

1/2 of the detection limit was used for all non-detectable data in percent removal calculations	
* Sample date 12/3/20; analysis to confirm new sampler tubing is phthalate-free	
<b>Qualifiers:</b>	
J	Estimated Result. Result detected below lowest point of calibration curve, but above specified MDL.
Q-30	Recovery for Lab Control Spike (LCS) below control limit; data may be biased low.
Q-52	Results and reporting levels reported as estimates due to known erratic recoveries.
R-02	Reporting limit raised due to interference from coeluting organic compounds present in sample.



CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal	Biosolids
		9/2/20		9/2/20			1/30/20
	ug/l	ug/l		(%)		ug/kg dry	
309-00-2	Aldrin	< 0.0682		< 0.0566		N/A	< 71
319-84-6	alpha-BHC	< 0.0682		< 0.0566		N/A	< 71
319-85-7	beta-BHC	< 0.0682		< 0.0566		N/A	< 71
58-89-9	delta-BHC	< 0.0682		< 0.0566		N/A	< 71
319-86-8	gamma-BHC (Lindane)	< 0.0682		< 0.0566		N/A	< 71
57-74-9	Chlordane (tech)	< 0.8520		< 0.708		N/A	< 710
72-54-8	4,4'-DDD	< 0.0682		< 0.0566		N/A	< 71
72-55-9	4,4'-DDE	< 0.0682		< 0.0566		N/A	< 71
50-29-3	4,4'-DDT	< 0.0682		< 0.0566		N/A	< 71
60-57-1	Dieldrin	< 0.0682		< 0.0566		N/A	< 71
959-98-8	Endosulfan I	< 0.0682		< 0.0566		N/A	< 71
33213-65-9	Endosulfan II	< 0.0682		< 0.0566		N/A	< 110
1031-07-8	Endosulfan Sulfate	< 0.0682		< 0.0566		N/A	< 71
72-20-8	Endrin	< 0.0682		< 0.0566		N/A	< 71
7421-93-4	Endrin Aldehyde	< 0.0682		< 0.0566		N/A	< 71
76-44-8	Heptachlor	< 0.0682		< 0.0566		N/A	< 71
1024-57-3	Heptachlor Epoxide	< 0.0682		< 0.0566		N/A	< 71
8001-35-2	Toxaphene	< 2.27		< 1.89		N/A	< 7100
12674-11-2	Aroclor 1016	< 0.106		< 0.0943		N/A	< 150
11104-28-2	Aroclor1221	< 0.106		< 0.0943		N/A	< 290
11141-16-5	Aroclor 1232	< 0.106		< 0.0943		N/A	< 150
53469-21-9	Aroclor 1242	< 0.106		< 0.0943		N/A	< 150
12672-29-6	Aroclor 1248	< 0.106		< 0.0943		N/A	< 150
11097-69-1	Aroclor 1254	< 0.106		< 0.0943		N/A	< 230
11096-82-5	Aroclor 1260	< 0.106		< 0.0943		N/A	< 150

CAS ID#	Parameter	EPA Method	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal
	<i>Conventional Pollutants</i>		9/2/20		9/2/20		%
			mg/l		mg/l		
68153-81-1	Oil and Grease (total)	1664	31.0		< 4.81		92%
18496-25-8	Sulfides, Total	SM4500 /S2E	< 2.0		< 2.0		N/A
57-12-5	Cyanide	EPA 335.4/ SM4500-CN C	0.0124		< 0.005		80%
7664-36-0	Ammonia	SM4500NH3-G	21.4		2.18		90%
7440-42-8	Boron	EPA 200.8	0.000131	J	0.000218	J	N/A
16887-00-6	Chloride	EPA 300	44.5		51.3		N/A
16984-48-8	Fluoride	EPA 300	< 1.00		< 1.00		N/A
7440-70-2	Calcium	EPA 200.7	29.7		28.1		5%
7439-95-4	Magnesium	EPA 200.7	11.7		9.22		21%
	Hardness	EPA 207	122		108		11%
14797-55-8	Nitrate+Nitrite	EPA 353.2	< 0.0200		10.5		N/A
14808-79-8	Sulfate	EPA300	19.1		19.8		-4%
	TDS	SM2540-C	379		349		8%
	TIN	Calculation	21.4		12.7		41%
7723-14-0	TP	SM4500-PF	8.33		0.661		92%
64743-03-9	Phenolics	EPA 420.1	0.120		< 0.010		96%
	Salinity	Sm2520-B	< 2.0		< 2.0		N/A

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent	Biosolids
		9/2/20		9/2/20		Removal	1/30/20
	ug/l	ug/l		%		ug/kg	
107-02-8	Acrolein	< 10.0		< 10.0		N/A	< 900
107-13-1	Acrylonitrile	< 2.00		< 2.00		N/A	< 180
71-43-2	Benzene	< 0.250		< 0.250		N/A	< 45
75-25-2	Bromoform	< 1.00		< 1.00		N/A	< 45
75-27-4	Dichlorobromomethane	< 1.00		< 1.00		N/A	< 45
56-23-5	Carbon tetrachloride	< 1.00		< 1.00		N/A	< 45
108-90-7	Chlorobenzene	< 0.500		< 0.500		N/A	< 45
110-75-8	2-Chloroethylvinyl ether	< 10.0		< 10.0		N/A	< 90
74-87-3	Chloromethane	< 5.00		< 5.00		N/A	< 45
75-00-3	Chlorethane	< 5.00		< 5.00		N/A	< 45
67-66-3	Chloroform	< 1.00		< 1.00		N/A	< 45
124-48-1	Dibromchloromethane	< 1.00		< 1.00		N/A	< 45
75-34-3	1,1-Dichloroethane	< 0.500		< 0.500		N/A	< 45
107-06-2	1,2-Dichloroethane	< 0.500		< 0.500		N/A	< 45
75-35-4	1,1-Dichloroethylene	< 0.500		< 0.500		N/A	< 45
78-87-5	1,2-Dichloropropane	< 0.500		< 0.500		N/A	< 45
542-75-6	1,3-Dichloropropylene	< 1.00		< 1.00		N/A	< 45
100-41-4	Ethylbenzene	< 0.500		< 0.500		N/A	< 45
74-83-9	Bromomethane/methyl Bromide	< 5.00		< 5.00		N/A	< 45
75-09-2	Methylene chloride	< 10.00		< 10.00		N/A	< 90
79-34-5	1,1,2,2-Tetrachloroethane	< 0.500		< 0.500		N/A	< 45
127-18-4	Tetrachloroethylene	< 0.500		< 0.500		N/A	< 45
108-88-3	Toluene	1.23		< 1.00		59%	260
156-60-5	1,2-Trans-Dichloroethene	< 0.500		< 0.500		N/A	< 45
71-55-6	1,1,1-Trichloroethane	< 0.500		< 0.500		N/A	< 45
79-00-5	1,1,2-Trichloroethane	< 0.500		< 0.500		N/A	< 45
79-01-6	Trichloroethylene	< 0.500		< 0.500		N/A	< 45
75-01-4	Vinyl Chloride	< 0.500		< 0.500		N/A	< 45
100-42-5	Styrene	< 1.00		< 1.00		N/A	45
67-64-1	Acetone	39.40		< 20.00		75%	1900
<b>Tentatively Identified Compounds (TICs)</b>							
013857-55-1	4-Methyl-1,4-heptadiene	2.3		< 5.0		N/A	
002778-68-9	Bicyclo[4.1.0]heptane, 3,7,7-trime	2.4		< 5.0		N/A	
000586-62-9	Cyclohexene, 1-methyl-4-(1-methyle	1.5		< 5.0		N/A	
000075-18-3	Dimethyl sulfide	14		< 5.0		N/A	
000624-92-0	Disulfide, dimethyl \$\$ Methyl disulfide \$\$ (Me	2.2		< 5.0		N/A	
000074-93-1	Methanethiol	4.7		< 5.0		N/A	
019150-21-1	trans-3-Decene \$\$ (E)-3-C10H20 \$\$	1.4		< 5.0		N/A	

< - 1/2 of the detection limit was used for all non-detectable data in percent removal calculations

## APPENDIX E: BIOSOLIDS PRODUCTION REPORT

### 2020 - ANNUAL BIOSOLIDS (SLUDGE) PRODUCTION REPORT

	Cubic Yards	Dry Pounds	Wet Pounds
January	1,405	293,778	2,415,972
February	1,414	312,684	2,432,174
March	1,212	282,375	2,084,201
April	1,206	285,416	2,073,714
May	1,721	418,697	2,959,660
June	1,238	306,843	2,129,287
July	1,066	246,710	1,833,105
August	1,234	272,706	2,121,988
September	1,760	414,420	3,027,071
October	1,324	305,525	2,277,485
November	1,307	304,780	2,247,349
December	1,529	348,869	2,629,899
<b>Total</b>	<b>16,413.90</b>	<b>3,792,803</b>	<b>28,231,906</b>
Tons Processed		1,896	14,116
Metric Tons		1,720	12,806

DRY TON BALANCE:

From Ridgefield	70.92
Produced (no RF)	1,825.5
<b>Total Produced</b>	<b>1,896.4</b>
To Long (NSF)	955.3
To Local (M&J)	235.3
To Local (Tribeca)	283.1
<b>Total Applied</b>	<b>1,473.6</b>
<b>Est. Recycled Dry Tons</b>	<b>422.8</b>

Current Avg. TS (Annual Summary) =  
Estimated Ave. Capture Rate %

<b>13.40</b>
<b>77.0</b>

**Visual Levels of Biosolids Storage Bays (2020)**

(estimates taken at end of each month)

	Visual CY Bay 1	Visual CY Bay 2	Visual CY Bay 3	Visual CY Bay 4	Total est. CY (94.1/log)	Estimate WT (x 0.86)	Produced WT (minus haul)	Actual WT Produced	Estimated Bay DT (at avg TS%)
Previous Year Carryover >					169	146			18.3
JAN	180	0	94	0	274	236	-1,238	1,208	32
FEB	0	0	180	0	180	155	-1,319	1,216	21
MAR	0	0	471	0	471	405	-1,069	1,042	54
APR	0	0	753	0	753	648	-826	1,037	87
MAY	0	0	941	45	986	848	-626	1,480	114
JUN	0	0	1,318	472	1,790	1,539	66	1,065	206
JUL	0	0	1,318	1,250	2,568	2,208	735	917	296
AUG	0	0	0	0	0	0	-1,474	1,061	0
SEP	94	0	0	0	94	81	-1,393	1,514	11
OCT	0	50	0	0	50	43	-1,431	1,139	6
NOV	0	50	0	0	50	43	-1,431	1,124	6
DEC	0	50	0	0	50	43	-1,431	1,315	5.8

Assumptions:

94.1 CY per foot = each section (188.27 CY/entire stop log height)

0.86 x cubic yards = wet tons

**TOTAL DRY TONS PRODUCED IN 2020 = 1,461.08**