



2019

Clark Regional Wastewater District Pretreatment Report



Salmon Creek Treatment Plant at Sunset



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Transmittal Cover

Project: 2019 Annual Pretreatment Report
Industrial Pretreatment
Date: February 11, 2020

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

DESCRIPTION:

2019 Annual Pretreatment Report

MESSAGE:

Enclosed please find the 2019 Annual Pretreatment Report. The report describes the Clark Regional Wastewater District's Pretreatment Program for the Salmon Creek Treatment Plant during the 2019 reporting period of January 1, 2019 through December 31, 2019.

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 2/11/2020

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COVER SHEET

NPDES Permit Holder: Clark County Department of Public Works
Period Covered by this Report: January 1, 2019 to December 31, 2019
Report Date: February 15, 2020

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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Title: Pretreatment Coordinator
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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

2/10/2020
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”:

Steewardship of the environmental and financial resources entrusted to the District

Employees who are talented and motivated professionals that work together in a spirit of cooperation

Responsibility, integrity and fairness in every decision, every interaction and in every challenge we undertake

Valued partner involved and active within our communities

Innovation and learning, creating an environment of personal and professional growth

Communication that is active, open, honest and timely

Efficient and effective solutions that are reliable, consistent and meet the needs of our communities

TABLE OF CONTENTS

Letter of Transmittal	i
Cover Sheet	ii
Mission, Vision & Values	iii
Table of Contents	iv
<u>Program Summary</u>	1
<u>Program Goals</u>	4
<u>Program Resources</u>	4
<u>Plant Performance</u>	5

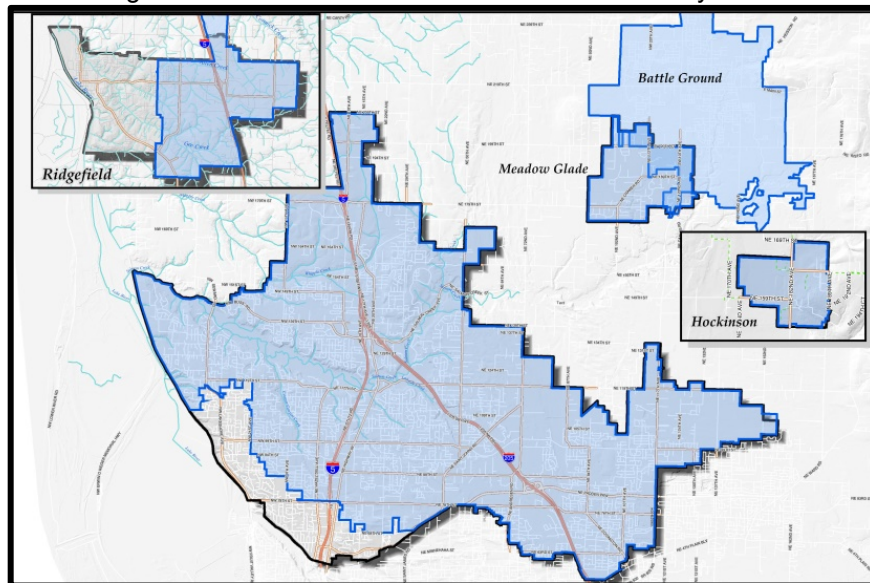
- APPENDIX A: Significant Industrial Users
- APPENDIX B: Minor Industrial Users
- APPENDIX C: FSE Survey Form
- APPENDIX D: SCTP Monitoring Data

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) and Minor Industrial Users (MIUs). Continuous surveying of new businesses is conducted throughout the year. In 2019, 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



The map depicts the areas discharging into the SCTP through either the District or City of Battle Ground sewage 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.

PROGRAM UPDATE

The District has diligently performed pretreatment activities as required by Permit during 2019. All SIUs and MIUs were inspected and monitored, and copies of analytical results and inspection reports were forwarded to Ecology for review. During 2019, 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. Four (4) MIUs were also monitored during 2019 (see Appendix B).

DELEGATION

The District began efforts in 2019 to develop materials for a Submission of Approval for delegation of authority for the Pretreatment Program. The District conducted a Local Limits Reassessment Study to evaluate and update existing technically based local limits and began work on establishing a multijurisdictional legal framework to implement a delegated program. Development of submissions materials will continue in 2020, with the completion of the Local Limits study and other required documents needed for program approval.

ADMINISTRATIVE ENFORCEMENT

There were no Notices of Violation (NOVs) issued in 2019.

LOCAL LIMIT EVALUATION

The actual headworks loadings were compared to Maximum Allowable Headworks Loadings (MAHLs), and the results were similar to previous years. Biosolids concentrations of all metals remain well below the standards for Class B Biosolids land application programs. SCTP has not experienced inhibition or pass through from industrial sources.

INDUSTRIAL USER SURVEY

Industries that may require wastewater discharge permits are 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. All surveys are reviewed by the District Pretreatment Coordinator. If any industrial/commercial user is identified as a potential SIU, said user is required to submit a "*Pretreatment Application*" form to the District. No new SIUs were identified during 2019.

PRIORITIES AND ACCOMPLISHMENTS FOR REPORTING YEAR

Public Education and Outreach

The District participated in multiple public education and outreach opportunities throughout 2019. Public education and outreach efforts include newsletter distribution, the Freeze the Grease program, online and targeted outreach, and attendance at community events.

The newsletter has continued outreach efforts focusing on pollution prevention habits that are formed at home. In 2019, each issue included a cartoon depicting the wastewater collection system and treatment process. Distribution of “Freeze the Grease” kits to District customers continued as part of an educational program. The program encourages



The Sewer Smart Logo

people to keep grease and non-dispersible materials out of their home plumbing system and public sewers. The District also performs targeted outreach as needed to areas that experience high rates of sewer maintenance, by distributing door hangers and postcards. District staff attended community events to discuss residential discharge issues with the public and distribute information. A program called “Sewer Smart” was continued during 2019. The Sewer Smart program 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. A

coloring book that features the three Sewer Smart characters: Reggie the Rag Ball, Frog and FOGG continues to be distributed. The coloring book is intended to educate a younger audience of users about the wastewater system and discourages users from flushing wipes, rags and other non-dispersible material.

Fats, Oils, Grease and Grit (FOGG) Program

The District continued implementation of the FOGG program in 2019. Food Service Establishment (FSE) surveys are continually distributed and updated as part of the development review process, and the District conducts onsite monitoring and inspection of FSEs. The District also participates in the Preferred Pumper Program (PPP), a collaboration of local pumping companies and municipalities to share information in order to ensure that FSEs properly clean and maintain their grease removal devices. In addition, the District began coordination efforts in 2019 with Clark County Public Health’s Food Safety Program, in order to facilitate data and information sharing between programs.

The FOGG program is conducted by the District throughout the District’s collections system and within the City of Battle Ground by Interlocal Agreement. There are 328 FSEs currently monitored by the District in the SCTP service area, including 66 in the City of Battle Ground, 22 in the City of Ridgefield.

Regional Coordination and Training

In 2019, the District Pretreatment Coordinator was an active member in the Oregon Association of Clean Water Agencies (ACWA) Pretreatment subcommittee and the Portland Metro area’s Preferred Pumper Program (PPP), and attended the Western States Alliance FOG Forum in Hood

River, Oregon; the Pacific Northwest Source Control Training Association (PNSCTA) Pretreatment Workshop held in Vancouver, Washington; and the National Association of Clean Water Agencies (NACWA) National Pretreatment Conference in Tacoma, Washington. The Pretreatment Coordinator also participated in the Local Interagency Networking Cooperative (LINC), and is a planning committee member for both the Water Environment Foundation's annual Short School in Clackamas, Oregon, and the PNSCTA Pretreatment Workshop.

PROGRAM GOALS

Listed below are the pretreatment program goals for 2020:

1. Complete development of documentation needed for Submission for Approval to Ecology for program delegation.
2. Continue to actively participate in local and regional committees in order to stay abreast 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.

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 Assistant Manager. FOGG Inspections have been completed by the Pretreatment Coordinator and Engineering Inspection staff in 2019. The District has additional support staff available if needed, such as the GIS staff, Development Review 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

INFLUENT, EFFLUENT AND BIOSOLIDS POLLUTANT MONITORING

The SCTP influent, effluent and biosolids were monitored in accordance with NPDES permit requirements in 2019. The monitoring results indicate that pollutants are present in non-inhibitory concentrations or are non-detectable. See below for metals results, and Appendix D for all other analytical data.

METALS MONITORING

In accordance with the Permit, the SCTP influent and effluent are monitored quarterly for metals. In addition, the SCTP staff conducts required monitoring of the Biosolids for metals. As shown in the tables below, all metal concentrations were found to be below inhibition levels. ND indicates that the parameter was reported to be Non-Detectable by analytical method. If either sample location reported an ND, the percent removal for that parameter is represented as Not Applicable (NA).

Total Metals per EPA 200 series									
1st Quarter 2019									
CAS ID#	Influent Sampled: 3/13/19				Effluent Sampled: 3/13/19				Percent Removal
	Results in mg/L								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.0100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	ND	0.0100		Arsenic	0.00161	0.00100		NA
7440-41-7	Beryllium	ND	0.000020		Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.00200		Cadmium	ND	0.000200		NA
7440-47-3	Chromium	ND	0.0100		Chromium	ND	0.00100		NA
7440-50-8	Copper	0.0318	0.0100		Copper	0.0289	0.00100		9%
7439-92-1	Lead	ND	0.00200		Lead	0.000451	0.000200		NA
7439-98-7	Molybdenum	ND	0.0100		Molybdenum	ND	0.00100		NA
7440-02-0	Nickel	ND	0.0100		Nickel	0.00147	0.00100		NA
7782-49-2	Selenium	ND	0.0100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000134	0.000020		Silver	ND	0.000020		93%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.0788	0.0400		Zinc	0.0747	0.00400		5%

Total Metals per EPA 200 series / HG per EPA 1631E									
2nd Quarter 2019									
CAS ID#	Influent Sampled: 5/15/19				Effluent Sampled: 5/15/19				Percent Removal
	Results in mg/L								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00200	0.00100		Arsenic	0.00162	0.00100		19%
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	0.00152	0.00100		Chromium	ND	0.00100		67%
7440-50-8	Copper	0.0297	0.00100		Copper	0.00458	0.00100		85%
7439-92-1	Lead	0.000634	0.000200		Lead	ND	0.000200		84%
7439-98-7	Molybdenum	0.00141	0.00100		Molybdenum	ND	0.00100		65%
7440-02-0	Nickel	ND	0.00200		Nickel	ND	0.00200		NA
7439-97-6	Mercury	0.0000367	0.0000005		Mercury	0.00000191	0.0000005		95%
7782-49-2	Selenium	ND	0.00100		Selenium	ND	0.00100		NA
7440-22-4	Silver	0.000361	0.000020		Silver	0.000021	0.000020		94%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.0989	0.0200		Zinc	0.0496	0.0200		50%

Total Metals per EPA 200 series									
3rd Quarter 2019									
CAS ID#	Influent Sampled: 8/7/19				Effluent Sampled: 8/7/19				Percent Removal
	Results in mg/L								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00236	0.00100		Arsenic	ND	0.000200		96%
7440-41-7	Beryllium	ND	0.000020		Beryllium	ND	0.000020		NA
7440-43-9	Cadmium	ND	0.000200		Cadmium	ND	0.00100		NA
7440-47-3	Chromium	0.00253	0.00100		Chromium	0.00418	0.00100		NA
7440-50-8	Copper	0.0514	0.00100		Copper	0.000215	0.000200		100%
7439-92-1	Lead	0.00119	0.000200		Lead	0.00146	0.00100		NA
7439-98-7	Molybdenum	0.00223	0.00100		Molybdenum	ND	0.00100		NA
7440-02-0	Nickel	0.00284	0.00100		Nickel	0.0579	0.00400		NA
7782-49-2	Selenium	ND	0.00100		Selenium	0.00151	0.00100		NA
7440-22-4	Silver	0.000394	0.000020		Silver	ND	0.000020		97%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.196	0.00400		Zinc	ND	0.00100		100%


Total Metals per EPA 200 series / HG per EPA 1631E									
4th Quarter 2019									
CAS ID#	Influent Sampled: 12/4/19				Effluent Sampled: 12/4/19				Percent Removal
	Results in mg/L								
	Parameter	INF	MDL	Q	Parameter	EFF	MDL	Q	
7440-36-0	Antimony	ND	0.00100		Antimony	ND	0.00100		NA
7440-38-2	Arsenic	0.00203	0.00100		Arsenic	0.00125	0.00100		38%
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	0.00218	0.00100		Chromium	ND	0.00100		77%
7440-50-8	Copper	0.0471	0.00100		Copper	0.0104	0.00100		78%
7439-92-1	Lead	ND	0.000200		Lead	ND	0.000200		NA
7439-98-7	Molybdenum	0.00151	0.00100		Molybdenum	ND	0.00100		67%
7440-02-0	Nickel	0.00406	0.00100		Nickel	0.00118	0.00100		71%
7439-97-6	Mercury	0.0000140	0.00000005		Mercury	0.00000160	0.00000005		89%
7782-49-2	Selenium	0.00131	0.00100		Selenium	ND	0.00100		62%
7440-22-4	Silver	0.000317	0.000020		Silver	0.000024	0.000020		92%
7440-28-0	Thallium	ND	0.000020		Thallium	ND	0.000020		NA
7440-66-6	Zinc	0.143	0.00400		Zinc	0.0449	0.00400		69%

BIOSOLIDS MONITORING

Biosolids produced at the SCTP were monitored in 2019, in accordance with the Permit. The monitoring results indicate that pollutants are present in non-inhibitory concentrations or are non-detectable in the Biosolids (see Appendix D). Total production was 1838 dry tons with 61.71 dry tons contributed by the Ridgefield treatment plant. The chart below summarizes 2019 Biosolids production.


2019 Biosolids Production	Cubic Yards	Dry Pounds	Wet Pounds
January	1,309	288,327	2,250,885
February	1,308	296,534	2,250,605
March	1,489	317,524	2,561,476
April	1,626	345,839	2,796,012
May	1,544	336,840	2,655,972
June	1,880	379,375	3,233,211
July	1,397	289,685	2,403,559
August	1,310	285,721	2,253,296
September	1,289	285,493	2,217,307
October	1,279	277,039	2,200,619
November	1,269	273,552	2,182,932
December	1,392	300,339	2,394,656
Total	17,093.33	3,676,268	29,400,529
	Tons	1,838	14,700
	Metric Ton	1,668	13,336
DRY TON BALANCE:			
From Ridgefield		61.71	
Produced (no RF)		1776.4	
Total Produced		1838.1	

APPENDIX A: SIGNIFICANT INDUSTRIAL USERS

 SIGNIFICANT INDUSTRIAL USERS	REPORTING QUARTER	DISTRICT INSPECTIONS	DISTRICT SAMPLING	SELF-MONITORING	LIMIT VIOLATIONS	REPORTING STATUS	Average Monthly Flow (GPD)
PRO-TECH INDUSTRIES, INC.	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							259
No exceedances or excursions from permit requirements were reported in 2019.							
nLIGHT PHOTONICS CORPORATION	1	0	0	3	0	C	
5408 NE 88th Street	2	0	0	3	0	C	
Vancouver, WA 98665	3	1	1	3	0	C	
WA Permit No. ST 6025, effective 7/1/18	4	0	0	3	0	C	
40 CFR Part 469							2674
No exceedances or excursions from permit requirements were reported in 2019.							
IMAT INC.	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							459
No exceedances or excursions from permit requirements were reported in 2019.							

C = Compliance; NC = Non-compliance; SNC = Significant Non-compliance; NSCIU = Non-Significant Categorical Industrial User

APPENDIX B: MINOR INDUSTRIAL USERS

 MINOR INDUSTRIAL USERS	REPORTING QUARTER	DISTRICT INSPECTIONS	DISTRICT SAMPLING	SELF-MONITORING	LIMIT VIOLATIONS	REPORTING QUARTER STATUS	
WASTE CONNECTIONS	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	
MIU Letter of Discharge (LOD) 2-2018 expires April 30, 2023	4	1	1	1	0	C	
No exceedances or excursions from permit requirements were reported in 2019.							
LAPEL SOLUTIONS	1	0	0	3	0	C	
11304 NE 66th Street	2	0	0	3	0	C	
Vancouver, WA 98662	3						
LOD 4-2016 expires October 31, 2019	4						
Lapel Solutions completed all required self-monitoring during Q1 and Q2 2019 and relocated out of the District's service area in Q3 2019.							
OLD CASTLE BUILDING ENVELOPE	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	4	1	1	3	0	C	
No exceedances or excursions from permit requirements were reported in 2019.							
PEARL SODA	1	1	0	3	0	C	
12019 NE 99 th St, Suite 1710	2	0	0	3	0	C	
Vancouver, WA 98682	3	0	0	3	0	C	
LOD 2-2019 expires April 30, 2020	4	0	0	3	0	C	
No exceedances or excursions from permit requirements were reported in 2019.							

C = Compliance; NC = Non-compliance; SNC = Significant Non-compliance; NSCIU = Non-Significant Categorical Industrial User

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

CAS ID#	Parameter	EPA Method	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal
	<i>Conventional Pollutants</i>		5/15/19		5/15/19		%
			mg/l		mg/l		
68153-81-1	Oil and Grease (total)	1664	15.5		< 4.95		84%
18496-25-8	Sulfides, Total*	SM4500 /S2D	0.102		0.021		79%
57-12-5	Cyanide	EPA 335.4/ SM4500-CN C	< 0.006140		< 0.00661		N/A
7664-36-0	Ammonia	SM4500NH3-G	41.0		0.140		100%
7440-42-8	Boron	EPA 200.7	0.113		0.197		N/A
16887-00-6	Chloride	EPA 300	41.4		47.3		N/A
16984-48-8	Fluoride	EPA 300	< 1.00		< 1.00		N/A
7440-70-2	Calcium	EPA 200.8	25.1		25.2		0%
7439-95-4	Magnesium	EPA 200.8	9.83		9.12		7%
	Hardness	SM 2340B	103		100		3%
14797-55-8	Nitrate+Nitrite Nitrogen	EPA 353.2	0.0320		14.7	B2	N/A
14808-79-8	Sulfate	EPA300	15.4		18.8		N/A
	TDS	SM2540-C	317		346		N/A
	Total Inorganic Nitrogen	Calculation	41.03		14.840		64%
7723-14-0	Total Phosphorus	SM4500-PE	7.01		4.00		43%
64743-03-9	Phenolics	EPA 420.1	0.104		< 0.010		90%
	Salinity	Sm2520-B	< 2.00		< 2.00		N/A

B2: Analyte detected in an associated blank at a level between one-half the MRL and the MRL.

CAS ID#	Parameter	EPA Method	mg/kg dry						
	Biosolids		1/16/19	2/21/19	3/13/19	5/13/19	7/10/19	9/24/19	11/27/19
7429-90-5	Aluminum	6010C	NT	3750	NT	NT	NT	NT	NT
7440-36-0	Antimony	6020(A)	2.81	2.04	2.25	2.00	2.55	2.20	2.05
7440-38-2	Arsenic	6020(A)	5.4	4.9	5.0	4.7	5.1	4.7	4.8
7440-39-3	Barium	6020A	NT	149	NT	NT	NT	NT	NT
7440-41-7	Beryllium	6020(A)	<0.11	0.126	0.115	0.121	<0.14	<0.16	0.21
7440-42-8	Boron	6010C	NT	38	NT	NT	NT	NT	NT
7440-43-9	Cadmium	6020(A)	1.30	1.14	1.17	1.09	1.27	1.17	1.17
7440-47-3	Chromium	6020(A)	36.9	18.3	19.5	20.2	23.9	33.6	22.6
7440-47-3	Chromium VI	SM3500Cr-D	NT	<3.6	<8.3	<3.9	<4.3	<4.1	<3.6
7440-48-4	Cobalt	6020A	NT	2.39	NT	NT	NT	NT	NT
7440-50-8	Copper	6020(A)	356	294	299	307	325	319	303
7439-89-6	Iron	6010C	NT	4620	NT	NT	NT	NT	NT
7439-92-1	Lead	6020(A)	15.2	8.75	7.79	7.65	8.3	8.70	8.21
7439-95-4	Magnesium	6010C	NT	6320	NT	NT	NT	NT	NT
7439-96-5	Manganese	6020A	NT	148	NT	NT	NT	NT	NT
7439-97-6	Mercury	7471A	0.610	0.64	0.49	0.67	0.60	0.82	0.60
7439-98-7	Molybdenum	6020(A)	15	11.2	13.0	12.3	14.0	14.5	14.3
7440-02-0	Nickel	6020(A)	18.9	13.5	14.2	15.7	16.8	19.3	17.6
7782-49-2	Selenium	6020(A)	8	7.6	7.6	8.2	8.5	<8.1	<6.6
7440-22-4	Silver	6020(A)	2.86	3.09	2.62	3.25	3.01	2.39	2.68
7440-28-0	Thallium	6020(A)	<0.11	0.135	<0.060	0.233	<0.14	0.33	0.23
7440-31-5	Tin	6010C	NT	23.8	NT	NT	NT	NT	NT
7440-32-6	Titanium	6010C	NT	155	NT	NT	NT	NT	NT
7440-66-6	Zinc	6020(A)	998	777	821	833	879	876	839
Conventional									
mg/kg dry									
57-12-5	Cyanide	9010B	NT	<0.77	NT	NT	NT	NT	NT
7723-14-0	Phosphorus	6010B	NT	17300	19200	78300	27000	23500	21100
7664-36-0	Ammonia-N	350.1	NT	15100	17600	14400	NT	16400	16300
	Total Kjeldahl Nitrogen	351.2	NT	82400	93600	78300	76200	75600	87000
	Total Solids	160.3m	12.38	12.77	12.0	12.1	11.4	11.9	12.9
	Total Volatile Solids	160.4	77.5	80.1	80.8	81.1	80.0	69.5	76.7
14797-65-0	Nitrite-Nitrogen	300.0	NT	<1.9	2.50	<2.0	4.60	5.4	2.6
14797-55-8	Nitrate-Nitrogen	300.0	NT	<0.24	<1.6	<2.0	<4.2	<0.25	<1.8
	pH (SU)	150.1	NT	8.22	7.86	8.00	7.98	7.93	8.57
14808-79-8	Sulfate	300.0	NT	1990	NT	NT	NT	NT	NT
16984-48-8	Fluoride	300.0	NT	<78	NT	NT	NT	NT	NT
24687-31-8	Bromide	300.0	NT	<39	NT	NT	NT	NT	NT
18496-25-8	Sulfide	9030B	NT	1100	NT	NT	NT	NT	NT
64743-03-9	Phenolics	420.1	NT	7.4	NT	NT	NT	NT	NT
68153-81-1	Oil and Grease (T)	1664	NT	73100	NT	NT	NT	NT	NT
Polybrominated Diphenyl Ethers									
ug/kg dry+									
97038-97-6	PBDE 100	8270C SIM	NT	51	NT	NT	NT	NT	NT
81397-99-1	PBDE 99	8270C SIM	NT	180	NT	NT	NT	NT	NT
56-307-79-0	PBDE 85	8270C SIM	NT	<9.7	NT	NT	NT	NT	NT

NT = Not Tested

CAS ID#	Parameter <i>Organochlorine Pesticides and PCBs per EPA Method 608</i>	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal (%)	Biosolids
		5/15/19		5/15/19			2/21/19
		ug/l		ug/l			ug/Kg
309-00-2	Aldrin	< 0.0566	C5	< 0.0577	C5	NA	< 9.2
319-84-6	alpha-BHC	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
319-85-7	beta-BHC	< 0.0566	C5	< 0.0577	C5	NA	25
58-89-9	delta-BHC	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
319-86-8	gamma-BHC (Lindane)	< 0.0566	C5	< 0.0577	C5	NA	10
57-74-9	Chlordane (tech)	< 0.7080	C5	< 0.7210	C5	NA	< 6.6
72-54-8	4,4'-DDD	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
72-55-9	4,4'-DDE	< 0.0566	C5	< 0.0577	C5	NA	19
50-29-3	4,4'-DDT	< 0.0566	C5	< 0.0577	C5	NA	< 51
60-57-1	Dieldrin	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
959-98-8	Endosulfan I	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
33213-65-9	Endosulfan II	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
1031-07-8	Endosulfan Sulfate	< 0.0566	C5	< 0.0577	C5	NA	< 30
72-20-8	Endrin	< 0.0566	C5	< 0.0577	C5	NA	< 14
7421-93-4	Endrin Aldehyde	< 0.0566	C5	< 0.0577	C5	NA	< 19
76-44-8	Heptachlor	< 0.0566	C5	< 0.0577	C5	NA	< 17
1024-57-3	Heptachlor Epoxide	< 0.0566	C5	< 0.0577	C5	NA	< 6.6
8001-35-2	Toxaphene	< 1.8900	C5	< 1.9200	C5	NA	< 660
12674-11-2	Aroclor 1016	< 0.0935	C7	< 0.0971	C7	NA	< 300
11104-28-2	Aroclor1221	< 0.0935	C7	< 0.0971	C7	NA	< 1200
11141-16-5	Aroclor 1232	< 0.0935	C7	< 0.0971	C7	NA	< 160
53469-21-9	Aroclor 1242	< 0.0935	C7	< 0.0971	C7	NA	< 350
12672-29-6	Aroclor 1248	< 0.0935	C7	< 0.0971	C7	NA	< 430
11097-69-1	Aroclor 1254	< 0.0935	C7	< 0.0971	C7	NA	< 350
11096-82-5	Aroclor 1260	< 0.0935	C7	< 0.0971	C7	NA	< 510

Qualifiers:

C5: Extract has undergone a Gel-Permeation Chromatography cleanup (EPA 3640A); reporting levels may be raised due dilution necessary for cleanup

C7: Extract has undergone Sulfuric Acid cleanup EPA 3665A, Sulfur cleanup EPA 3660B, and Florisil Cleanup EPA 3620B in order to minimize matrix interference.

CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal	Biosolids
		5/15/19		5/15/19			2/21/19
	<i>Volatile Organic Compounds per EPA Methods 624/5035/8260B</i>		ug/l	ug/l	%	ug/kg	
107-02-8	Acrolein	< 10.0		< 10.0		N/A	< 780
107-13-1	Acrylonitrile	< 2.00		< 2.00		N/A	< 160
71-43-2	Benzene	< 0.250		< 0.250		N/A	< 39
75-25-2	Bromoform	< 1.00		< 1.00		N/A	< 39
75-27-4	Dichlorobromomethane	< 1.00		< 1.00		N/A	< 39
56-23-5	Carbon tetrachloride	< 1.00		< 1.00		N/A	< 39
108-90-7	Chlorobenzene	< 0.500		< 0.500		N/A	< 39
110-75-8	2-Chloroethylvinyl ether	< 10.0		< 10.0		N/A	< 78
74-87-3	Chloromethane	< 5.00		< 5.00		N/A	< 39
75-00-3	Chlorethane	< 5.00		< 5.00		N/A	< 39
67-66-3	Chloroform	< 1.00		< 1.00		N/A	< 39
124-48-1	Dibromchloromethane	< 1.00		< 1.00		N/A	< 39
75-34-3	1,1-Dichloroethane	< 0.500		< 0.500		N/A	< 39
107-06-2	1,2-Dichloroethane	< 0.500		< 0.500		N/A	< 39
75-35-4	1,1-Dichloroethylene	< 0.500		< 0.500		N/A	< 39
78-87-5	1,2-Dichloropropane	< 0.500		< 0.500		N/A	< 39
542-75-6	1,3-Dichloropropylene	< 1.00		< 1.00		N/A	< 39
100-41-4	Ethylbenzene	< 0.500		< 0.500		N/A	< 39
74-83-9	Bromomethane/methyl Bromide	< 5.00		< 5.00		N/A	< 39
75-09-2	Methylene chloride	< 3.00		< 3.00		N/A	< 78
79-34-5	1,1,2,2-Tetrachloroethane	< 0.500		< 0.500		N/A	< 39
127-18-4	Tetrachloroethylene	< 0.500		< 0.500		N/A	< 39
108-88-3	Toluene	5.84		< 1.00		83%	46
156-60-5	1,2-Trans-Dichloroethylene	< 0.500		< 0.500		N/A	< 39
71-55-6	1,1,1-Trichloroethane	< 0.500		< 0.500		N/A	< 39
79-00-5	1,1,2-Trichloroethane	< 0.500		< 0.500		N/A	< 39
79-01-6	Trichloroethylene	< 0.500		< 0.500		N/A	< 39
75-01-4	Vinyl Chloride	< 0.500		< 0.500		N/A	< 39
100-42-5	Styrene	< 1.00		< 1.00		N/A	39
67-64-1	Acetone	129.00		< 20.00		92%	770
Additional analysis							
010281-55-7	1,6-Octadiene, 3,7-dimethyl-, (S)-	1.7		< 5.0		N/A	
002778-68-9	Bicyclo[4.1.0]heptane, 3,7,7-trime	2.1		< 5.0		N/A	
000075-18-3	Dimethyl sulfide	3.5		< 5.0		N/A	
005989-27-5	D-Limonene	3.1		< 5.0		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 Removal	Biosolids
		ug/l		ug/l		(%)	2/21/19 mg/kg
Semivolatile Organic Compounds per EPA Method 625/8270B							
Acid and Base/Neutrals							
83-32-9	Acenaphthene'	< 1.89		< 0.192		90%	<38
208-96-8	Acenaphthylene'	< 1.89		< 0.192		90%	<38
120-12-7	Anthracene'	< 1.89		< 0.192		90%	<38
92-87-5	Benzidine'	< 94.30	Q-52	< 9.62	Q-52	90%	<230
56-55-3	Benzo (a) Anthracene'	< 1.89		< 0.192		90%	<38
50-32-8	Benzo (a) Pyrene'	< 2.83		< 0.288		90%	<38
205-99-2	Benzo (b) fluoroanthene'	< 2.83		< 0.288		90%	<38
207-08-9	Benzo (k) fluoranthene'	< 2.83		< 0.288		90%	<38
191-24-2	Benzo (ghi) perylene'	< 1.89		< 0.192		90%	<38
111-91-1	Bis(2-chloroethoxy) methane'	< 4.72		< 0.481		90%	<38
111-44-4	Bis (2-chloroethyl)ether'	< 4.72		< 0.481		90%	<38
39638-32-9	Bis(2-chloroisopropyl)ether'	< 4.72		< 0.481		90%	<38
117-81-7	bis (2-ethylhexyl)phtahalate'	< 37.70		25.9		33%	<38
101-55-3	4-Bromophenyl phenyl ether'	< 4.72		< 0.481		90%	<38
85-68-7	Butyl benzyl phthalate'	< 37.70		< 3.85		90%	<38
91-58-7	2-Chloronaphthalene'	< 1.89		< 0.192		90%	<38
7005-72-3	4-Chlorophenyl phenyl ether'	< 4.72		< 0.481		90%	<38
218-01-9	Chrysene'	< 1.89		< 0.192		90%	<38
53-70-3	Dibenzo (a,h) anthracene'	< 1.89		< 0.192		90%	<38
91-94-1	3,3'-Dichlorobenzidine'	< 94.30	Q-52	< 9.62	Q-52	90%	<38
84-66-2	Diethyl phthalate'	< 37.70		< 3.85		95%	<38
131-11-3	Dimethyl phthalate'	< 37.70		< 3.85		90%	<38
84-74-2	Di-n-butyl phtalate'	< 37.70		< 3.85		90%	<38
606-20-2	2,6-Dinitrotoluene'	< 18.90		< 1.92		90%	<38
117-84-0	Di-n-octyl phthalate'	< 37.70		< 3.85		90%	<38
206-44-0	Flouranthene'	< 1.89		< 0.192		90%	<38
86-73-7	Fluorene'	< 1.89		< 0.192		90%	<38
118-74-1	Hexachlorobenzene'	< 1.89		< 0.192		90%	<38
87-68-3	Hexachlorobutadiene'	< 4.72		< 0.481		90%	<38
77-47-4	Hexachlorocyclopentadiene'	< 9.43		< 0.962		90%	<38
67-72-1	Hexachloroethane'	< 4.72		< 0.481		90%	<38
193-39-5	Indeno (1,2,3-cd) Pyrene'	< 1.89		< 0.192		90%	<38
78-59-1	Isophorone'	< 4.72		< 0.481		90%	<38
91-20-3	Napthalene'	< 3.77		< 0.769		80%	<38
98-95-3	Nitrobenzene'	< 18.90		< 1.92		90%	<38
62-75-9	N-Nitrosodimethylamine'	< 4.72		< 0.481		90%	<230
621-64-7	N-Nitrosodi-n-Propylamine'	< 4.72		< 0.481		90%	<38
55-18-5	N-Nitrosodiphenylamine'	< 4.72		< 0.481		90%	<38
85-01-8	Phenanthrene'	< 1.89		< 0.192		90%	<38
129-00-0	Pyrene'	< 1.89		< 0.192		90%	<38
120-82-1	1,2,4-Trichlorobenzene'	< 4.72		< 0.481		90%	<38
Acid Compounds							
95-57-8	2-chlorophenol	< 9.43		< 0.962		90%	<46
120-83-2	2,4 Dichlorophenol	< 9.43		< 0.962		90%	<46
105-67-9	2,4-Dimethylphenol	< 9.43		< 0.96		90%	<46
534-52-1	4,6-dinitro-o-cresol	< 47.2		< 4.81		90%	<230
51-28-5	2,4-Dinitrophenol	< 47.2		< 4.81		90%	<230
88-75-5	2-Nitrophenol	< 18.9		< 1.92		90%	<46
100-02-7	4-Nitrophenol	< 18.9		< 1.92		90%	<230
59-50-7	4-Chloro-3-methylphenol	< 18.9		< 1.92		90%	<46
87-86-5	Pentachlorophenol	20.8	J	< 1.92		91%	<230
108-95-2	Phenol	38.2	J	< 3.85		95%	<46
88-06-2	2,4,6-Trichlorophenol	< 9.43		< 0.962		90%	<46

Qualifiers:

Q1 = Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.

Q2 = Due to erratic or low blank spike recoveries, results for this analyte are considered Estimated Values.

CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal	Biosolids
							2/21/19
	<i>Semivolatile Organic Compounds per EPA Method 625/8270B</i>	ug/l		ug/l		(%)	mg/kg
Tentatively Identified Compounds							
	1-Tetradecamine, N,N-dimethyl-	40					
	5-Octadecene, E-	83					
	9-Octadecenoic acid (Z)-, octadecy	61					
	Benzeneacetic acid	140					
	Caffeine	64					
	Cholest-4-ene	40					
	Cholestanol	330					
	Cholesterol	270					
	cis-Vaccenic acid	2000					
	Cyclotradecane	98					
	Methyl 9,12-heptadecadienoate	160					
	n-Decanoic acid	59					
	Squalene	280					
	Tetradecanoic acid	280					