

From: [Bill Morrow](#)
To: [Laurel Rognstad](#)
Cc: [DeWitt Logsdon](#); [Melissa Boner](#)
Subject: [EXTERNAL] Semi Annual Report
Date: Thursday, April 23, 2020 3:32:46 PM
Attachments: [image001.jpg](#)
[SAR Shelbyville Tn.pdf](#)

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Good Afternoon Laurel,

Please find attached the Shelbyville Wastewater Treatment Plants SAR for the reporting period 10-01-19 to 3-31-20.

Sincerely,

Bill Morrow
Pretreatment Coordinator
bmorrow@shelbyvillepower.com
SHELBYVILLE POWER, WATER & SEWERAGE SYSTEM
P. O. Box 530
Shelbyville, TN 37162
Phone: 931-684-4970
Fax: 931-684-4986





Tennessee Department of Environment and Conservation
 Division of Water Resources
 312 Rosa L. Parks, 11th Floor
 Nashville, TN 37243-1534
 (615) 532-0625

CONTROL AUTHORITY PRETREATMENT SEMI-ANNUAL/ANNUAL REPORT

Control Authority Identification:				
Control Authority Name :	Shelbyville Power, Water & Sewerage Systems			
Report Date :	4-28-20			
Reporting Period Covered by this report	From	10-01-19	To	03-31-20
Reporting Period Covered by previous report	From	04-01-19	To	09-30-19

Name of Wastewater Treatment Plant(s)	NPDES Permit No.
1. Shelbyville Wastewater Treatment Plant	TN0024180
2.	
3.	
4.	
5.	

Person to contact concerning this report: Bill Morrow	Title or Position: Pretreatment Coordinator		
Mailing Address: P.O. Box 530	City: Shelbyville	State: TN	Zip: 37162
Phone number(s): 931-684-4970	E-mail (optional): Bmorrow@shelbyvillepower.com		
Fax number (optional): 931-684-4986	Website (optional):		

Report Certification: (must be signed in accordance with the requirements of Tennessee Rule 1200-4-14-.12(13))	
"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(s) who manage the system or are directly responsible for gathering the information, the submitted 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. A false statement is subject to the penalties of perjury."	
Name: (print or type) David H. Crowell	Title: (print or type) General Manager
Signature: 	Date: 4-21-20

Pretreatment – Narrative Summary

1. Calsonic Corp, Permit #6 has changed their name to Marelli North America but has not changed ownership.
2. Calsonic Corp, Permit #6 had no process discharges from October 2019 thru February 2020. The facility had a process discharge in March 2020.
3. Calsonic Corp, Permit #6 was in Significant Non-Compliance for a TRC violation during the July thru December reporting period on Form 5b.
4. Calsonic Corp, Permit #6 is currently shut down due to COVID-19.
5. Gold River Feed Products, Permit #20 was reclassified to a “Significant Industrial User” instead of “Other” on October 1, 2019 due to increase flow, fluctuating pH, fluctuating high temperatures, and continuous BOD surcharges.
6. Gold River Feed Products, Permit #20 was issued an Administrative Compliance Order on October 23, 2019. After a meeting concerning the Administrative Compliance Order, an Administrative (Agreed) Consent Order was issued on November 25, 2019. Please find attached a copy of the Administrative Consent Order which contains the violations and due dates for major milestones. The initial Plans were submitted to comply with the first milestone. After reviewing the Plans, a response was sent to Gold River Feed Products April 3.
7. Gold River Feed Products, Permit #20 was in compliance with the pH and temperature limits of the permit for February and March, 2020. The violations have decreased since issuance of the Administrative Consent Order.

Form 1a

Results of Sampling at Control Authority

Sample Date(s): 12-05-19

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Parameter	Influent (mg/l)	Protection criteria (mg/l)	Effluent (mg/l)	Pass Through Limit (mg/l)	Removal Rate (%)
Copper (Cu)	0.0228	0.5714	0.00357	0.08	84%
Chromium III	0.00169	Report only	<0.00100	Report only	>41%
Chromium VI	<0.0100	Report only	<0.0100	Report only	N/A
Chromium Total	0.00169	Report only	<0.00100	Report only	>41%
Nickel (Ni)	0.00163	0.31	<0.00100	0.18	>39%
Cadmium (Cd)	<0.00100	0.015	<0.00100	0.00498	N/A
Lead (Pb)	0.00128	0.115	<0.00100	0.045	>22%
Mercury (Hg)	<0.000200	0.001	<0.000200	0.0004	N/A
Silver (Ag)	<0.00100	0.02	<0.00100	0.005	N/A
Zinc (Zn)	0.0894	0.952	0.0261	0.2	71%
Cyanide (Cn)	<0.00500	0.0664	<0.00500	0.0206	N/A
Phenols, Total	0.0425	0.5	<0.0400	0.05	>6%
Toluene					
Benzene					
1,1,1-trichloroethane					
Ethylbenzene					
Carbon tetrachloride					
Chloroform					
Tetrachloroethylene					
Trichloroethylene					
1,2 trans dichloroethylene					
Methylene chloride					
Naphthalene					
Total phthalates					

Include any parameters sampled in the reporting period including the routine semiannual sampling as well as the effluent sampling specified in Section III of the National Pollution Discharge Elimination System (NPDES) permit, including applicable toxic organics (i.e., toluene, benzene, 1,1,1 – trichloroethane and chloroform).

You must sample for all parameters in your NPDES Permit at the required frequency (See Part 3 of your NPDES permit for required pretreatment monitoring).

Form 1a

Results of Sampling at Control Authority

Sample Date(s): 3-05-20

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Parameter	Influent (mg/l)	Protection criteria (mg/l)	Effluent (mg/l)	Pass Through Limit (mg/l)	Removal Rate (%)
Copper (Cu)	0.0174	0.5714	0.00482	0.08	72%
Chromium III	0.00125	Report only	<0.00100	Report only	>20%
Chromium VI	<0.0100	Report only	<0.0100	Report only	N/A
Chromium Total	0.00125	Report only	<0.00100	Report only	>20%
Nickel (Ni)	0.00145	0.31	<0.00100	0.18	>31%
Cadmium (Cd)	<0.00100	0.015	<0.00100	0.00498	N/A
Lead (Pb)	0.00156	0.115	<0.00100	0.045	>36%
Mercury (Hg)	<0.000200	0.001	<0.000200	0.0004	N/A
Silver (Ag)	<0.00100	0.02	<0.00100	0.005	N/A
Zinc (Zn)	0.0885	0.952	0.0283	0.2	68%
Cyanide (Cn)	<0.00500	0.0664	<0.00500	0.0206	N/A
Phenols, Total	0.0479	0.5	<0.0400	0.05	>16%
Toluene					
Benzene					
1,1,1-trichloroethane					
Ethylbenzene					
Carbon tetrachloride					
Chloroform					
Tetrachloroethylene					
Trichloroethylene					
1,2 trans dichloroethylene					
Methylene chloride					
Naphthalene					
Total phthalates					

Include any parameters sampled in the reporting period including the routine semiannual sampling as well as the effluent sampling specified in Section III of the National Pollution Discharge Elimination System (NPDES) permit, including applicable toxic organics (i.e., toluene, benzene, 1,1,1 – trichloroethane and chloroform).

You must sample for all parameters in your NPDES Permit at the required frequency (See Part 3 of your NPDES permit for required pretreatment monitoring).

**Form 1b
Biosolids**

What does the Control Authority do with the sludge/biosolids? Land Apply 11-18-19

If biosolids are land-applied, please fill out the following Table.

Parameter	Biosolids Concentration (mg/kg)	503 Table 1 limits Ceiling Concentration (mg/kg)	503 Table 3 limits Monthly Ave. (mg/kg)
Arsenic	2.15	75	41
Cadmium	1.49	85	39
Copper	333	4300	1500
Lead	21.2	840	300
Mercury	0.320	57	17
Molybdenum	7	75	N/A
Nickel	14.7	420	420
Selenium	6.64	100	100
Zinc	891	7500	2800

Were there any samples of biosolids that exceeded the ceiling concentrations from 40 CFR Part 503 (Table 1)? No

What date(s)? N/A

**Form 1b
Biosolids**

What does the Control Authority do with the sludge/biosolids? Land Apply 02-12-20

If biosolids are land-applied, please fill out the following Table.

Parameter	Biosolids Concentration (mg/kg)	503 Table 1 limits Ceiling Concentration (mg/kg)	503 Table 3 limits Monthly Ave. (mg/kg)
Arsenic	1.78	75	41
Cadmium	1.14	85	39
Copper	278	4300	1500
Lead	17.5	840	300
Mercury	0.222	57	17
Molybdenum	6.91	75	N/A
Nickel	15.2	420	420
Selenium	5.93	100	100
Zinc	725	7500	2800

Were there any samples of biosolids that exceeded the ceiling concentrations from 40 CFR Part 503 (Table 1)? No

What date(s)? N/A

Form 2

Report of Upsets, Protection Criteria Violations, Biosolids Violations and Pass-Through Limit Violations

Type of Incident	Date	Explanation of Incidents	Corrective Action Taken
None			

* Give a detailed explanation of the causes of the incident and the corrective action taken to date. The corrective action should also include any plans the Control Authority has to identify or correct the problem. If there is not enough room on this form, include the information in the Narrative Summary.

Form 3 Industrial User Summary

Industrial User Name and Mailing Address	Contact (indicate Mr./Ms.) Phone #/Fax# and email address (optional)	Type of Industry **	Actual Flow (GPD)
Calsonic Mfg. Corp. #6 P.O. Box 350 Shelbyville, TN 37162	Mr. Pat Lynch	SN-Radiators- Evaporators-Condenser	1,640 Batch
Gold River Feed Products Permit #20 783 Eagle Boulevard Shelbyville, TN 37160	Mr. Ivan Pedigo	SN- Production of Animal Feed Supplements	35,353 Varies Greatly Based on Production

****If a Significant Industrial User (SIU) is Categorical, list the applicable category (i.e., metal finisher, electroplater, leather tanner, etc.). Non-categorical SIUs should be listed as SN (Significant Non-Categorical), with a description of the process (i.e., SN-landfill or SN-hospital). All Non-significant Categorical Industrial Users (NSCIU) should be listed on the form and identified as an NSCIU. Information on NSCIUs is required on Form 3, but not required on any other form in this report. Industries that are not significant and not categorical are not required to be listed in this report. However, if you wish to list them on this form, please identify them as "Other."**

Form 4				
Industrial User Monitoring Report				
Column 1	Column 2	Column 3	Column 4	Column 5
Industrial User Name and Mailing Address	Control Authority Inspection Date(s)	Control Authority Sampling Frequency	Control Authority Sampling Date(s)	SIU Self-Monitoring Dates(s)
Calsonic Mfg. Corp. Permit #6 P.O. Box 350 Shelbyville, TN 37162	1/30/19	Semi-Annual	2/4/19	12/04/2018 3/13/2019 Monthly TSS
Gold River Feed Products Permit #20 783 Eagle Blvd. Shelbyville, TN 37160	1/27/20	Annual	9/12/19 9/13/19	10/23/19 1/10/20 Monthly BOD Continuous: pH, Temp & Flow

Form 5b Industrial User Compliance Report

Semi-annual reporters only must complete this form
(For semi-annual reporting period October 1, 2019–March 31, 2020)

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	
	July – September	October – December	Jan – March	July – December	October – March	
Industrial User	Parameters Violated (conc/limit)	Parameters Violated (conc/limit)	Parameters Violated (conc/limit)	Chronic Viol. (Yes or No)	Chronic Viol. (Yes or No)	
	Total Number of Samples	Total Number of Samples	Total Number of Samples	TRC Viol. (Yes or No)	TRC Viol. (Yes or No)	
Calsonic Mfg. Corp. Permit #6	TSS 1 2070/1000	No Discharge 0	TSS 0 1000	No	Yes	No
Gold River Feed Products Permit #20	pH <5 9 pH 5 to 10	pH <5 9 pH 5 to 10	pH <5 4 pH 5 to 10	No	No	No
Gold River Feed Products Permit #20	pH >10 28 pH 5 to 10	pH >10 7 pH 5 to 10		No	No	No
Gold River Feed Products Permit #20	Temp >104 11 104 F	Temp >104 0 104 F				

Use one line for each parameter for each SIU with violations, showing whether a Technical Review Criteria (TRC) or Chronic Violation resulted: Yes for violations resulting in TRC or Chronic – both are Significant Non-Compliance (SNC) or No for violations not resulting in TRC/Chronic Violations. Please note that monthly average and daily maximum for a specific parameter are considered to be separate limitations. Therefore, SNC would be calculated separately for each limitation. "Conc" stands for concentration.

Form 6
Enforcement and Compliance

Industrial User	Verbal Warnings (1) (Enter Number)	Notice of Violation (Enter Number)	Compliance Schedule Conformity (2)	Administrative Orders (Enter Number)	Number of Violations Resolved
Gold River #20		59	Yes	1	0

1 Verbal warnings include phone calls and site visit discussions.

- 2 Use the following code:**
- In compliance with schedule = Yes
 - Out of compliance with schedule = No
 - Facility not on a schedule = NA

Note: Describe compliance schedule in a footnote or in the Narrative Summary, giving the date issued, the violation and due dates for major milestones.

Form 7

Pretreatment Performance Summary

I. General Information		
Control Authority Name: Shelbyville Power, Water & Sewerage Systems		
Address: P.O. Box 530 P.O. Box 530		City: Shelbyville, TN 37162
Contact Person: Bill Morrow		Contact Phone Number: 931-684-4970
Reporting Period: 10-01-19 to 03-31-20		NPDES Number: TN0024180
Number of Categorical SIUs:	Number of Non-Categorical SIUs:	Total Number of SIUs:
0	2	2

II. Significant Industrial Compliance	SIUs	
	Categorical	Non- Categorical
1) No. of SIUs in Significant Non-compliance (SNC)	0	2
2) Reasons for Significant Non-compliance (SNC)	0	2
a) In SNC for Violations of pretreatment standards	0	1
b) In SNC for Reporting Violations	0	0
c) In SNC for Compliance Schedule Violations	0	0
d) In SNC for Other (explain in Narrative Summary)	0	1

III. Monitoring	SIUs	
	Categorical	Non- Categorical
1) Facilities Monitored by CA (samples analyzed for all SIU permit parameters):		
a) No. of SIUs Sampled by the Control Authority (CA)	0	1
b) No. of SIUs Inspected by the CA	0	2
2) Total Monitoring Events:		
a) No. of Samples by the CA	0	1
b) No. of Inspections by the CA	0	2
3) How many SIUs do not have a current control mechanism (permit)	0	2

IV. Enforcement	SIUs	
	Categorical	Non- Categorical
1) SIUs Subject to Any Enforcement Actions (include verbal warnings)	0	1
2) SIUs Listed in the Newspaper for SNC in this period	0	0
3) Notices of Violations Issued *	0	59
4) Administrative Orders Issued *	0	1
5) No. of SIUs on Compliance Schedules (anytime in period)	0	1
6) Suits Filed:		
a) Civil Suits *	0	0
b) Criminal Suits *	0	0
7) Other Actions Taken (sewer bans, etc. but not verbals) *	0	0
8) Penalties Collected: (not surcharges)		
a) No. of SIUs from whom penalties were collected	0	0
b) Total Dollars (\$) collected in the period	0	0

* Enter the number of ACTIONS, not the number of SIUs

**SHELBYVILLE POWER, WATER AND SEWERAGE SYSTEMS
INDUSTRIAL PRETREATMENT PROGRAM**

IN THE MATTER OF

Gold River Feed Products
783 Eagle Boulevard
Shelbyville, Tennessee 37160

**ADMINISTRATIVE
CONSENT ORDER**

LEGAL AUTHORITY

The following findings have been made and notice issued pursuant to the authority vested in the General Manager of the Shelbyville Power, Water and Sewerage Systems, City of Shelbyville, Tennessee, under the provisions of the **City of Shelbyville Sewer Use Ordinance**. This Order is based on findings of violation of the conditions of the industrial wastewater discharge permit issued pursuant to the **City of Shelbyville Sewer Use Ordinance**.

FINDINGS

1. Gold River Feed Products discharges nondomestic wastewater containing regulated pollutants into the sanitary sewer system of the City of Shelbyville, Tennessee;
2. Gold River Feed Products was issued a general industrial wastewater discharge permit effective November 20, 2017, which contains prohibitions, restrictions, and other limitations on the quality of the wastewater it discharges to the sanitary sewer system of the City of Shelbyville, Tennessee;
3. Gold River Feed Products's permit has since been amended to reflect Gold River Feed Products as a "*Significant Industrial User*" as defined by the **City of Shelbyville Sewer Use Ordinance** and the **Rules State of Tennessee Department of Environment and Conservation Division of Water Resources Chapter 0400-40-14 Pretreatment Requirements**.
4. Pursuant to the **Shelbyville Sewer Use Ordinance** and the hereinbefore referenced industrial wastewater discharge permit, data and inspections are routinely collected or submitted and conducted on the compliance status of Gold River Feed Products; and
5. The data have shown that Gold River Feed Products has violated its industrial wastewater discharge permit in the following manner:
 - a. Gold River Feed Products has violated its "*Discharge Limitations Shall Not Exceed Instantaneous Maximum Concentration – pH 5.0-10.0 S.U.*" effluent discharge limitation

for pH collected between January 2018 and August 2019 for a total of eight (8) separate violations of the permit for the high and low limitations;

- b. Gold River Feed Products has violated its *“Discharge Limitations Shall Not Exceed Instantaneous Maximum Concentration – pH 5.0 -10.0 S.U.”* effluent discharge limitation for pH collected during the month of September 2019 for a total of eight separate violations of the permit for the high and low limitations after the Shelbyville Power, Water and Sewerage Systems requested the pH high and low to be reported daily;
 - c. Gold River Feed Products has violated its *“Discharge Limitations Shall Not Exceed Instantaneous Maximum Concentration – Temperature 40°C (104°F)”* for Temperature collected during the month of September 2019 for a total of seven (7) separate violations of the permit after the Shelbyville Power, Water and Sewerage Systems requested the temperature to be reported daily;
 - d. Gold River Feed Products has violated the permit for *“Reporting Noncompliance”* for a total of thirteen (13) separate violations for not reporting noncompliance within 24 hours of becoming aware of the violation and not submitting the written explanation within five (5) days of the violation.
6. On August 15, 2019, a walkthrough of the facility by the Shelbyville Power, Water and Sewerage Systems pretreatment coordinator and J. R. Wauford and Company, Consulting Engineers, Inc. pretreatment coordinator was told that potable water was being added to the process wastewater to regulate the temperature. Gold River Feed Products has violated the permit for *“The use of dilution water in order to comply with the terms and conditions of this permit is prohibited.”*
 7. Gold River Feed Products is in significant noncompliance with the City of Shelbyville Industrial Discharge Permit No. 20 as defined in the **City of Shelbyville Sewer Use Ordinance**.
 8. As the result of the Administrative Compliance Order issued October 23, 2019, a meeting between Shelbyville Power Water and Sewerage Systems Pretreatment Coordinator, Bill Morrow, their Pretreatment Coordinator, Melissa Boner, with J. R. Wauford & Company, Consulting Engineers, Inc. and Gold River Feed Products President, Ivan Pedigo was requested by Gold River Feed Products. Gold River Feed Products agreed to submit a compliance schedule devised by their consulting engineer, St. John Engineering, LLC in order to install additional pretreatment equipment to comply with Industrial Wastewater Discharge Permit No. 20, the Shelbyville Power Water and Sewerage System Sewer Use Ordinance and the State of Tennessee Pretreatment Program.
 9. As a result of the Administrative Compliance Order, Gold River Feed Products, T. Price Thompson III, counsel for Gold River Feed Products, Rochelle, McCulloch & Aulds, PLLC, submitted a Petition for Hearing prior to the 30-day deadline stipulated in the Order.

10. St. John Engineering, LLC has submitted a response to the Administrative Compliance Order on behalf of their client, Gold River Feed Products, within 30 days of the Order and with a preliminary schedule for installing pretreatment as necessary to achieve compliance with the Gold River Feed Products Industrial Wastewater Discharge Permit No. 20.

ORDER

THEREFORE, BASED ON THE FINDINGS IDENTIFIED HEREINBEFORE, GOLD RIVER FEED PRODUCTS HAS AGREED TO THE FOLLOWING SCHEDULE:

1. As a result of the meeting with Gold River Feed Products, Ivan Pedigo, and receiving the response letter from St. John Engineering, LLC, both parties agree that the Petition for Hearing is no longer necessary due to both parties agreeing to the Compliance Schedule of this Order.
2. Within 30 days of the date of the receipt of the response from St. John Engineering, LLC, November 25, 2019, St. John Engineering, LLC will have completed an investigative process/research necessary to test cleaning procedures to determine appropriate pretreatment or any alternative discharge methods employed for the cleaning processes Gold River Feed Products employed. The date of expected completion will be December 25, 2019 which is a holiday; therefore, a report should be submitted to Shelbyville Power Water and Sewerage Systems by December 30, 2019 to allow for the holiday with a copy to our consulting engineer, J. R. Wauford & Company, Consulting Engineers, Inc.
3. Within 120 days of the receipt of the response letter from St. John Engineering, LLC, March 24, 2020, furnish Plans and Specifications from St. John Engineering, LLC of the proposed improvements to Shelbyville Power, Water and Sewerage Systems with a copy to our consulting engineer, J. R. Wauford & Company, Consulting Engineers, Inc., for approval.
4. Within 90 days of Shelbyville Power Water and Sewerage Systems' approval, improvements to the pretreatment system to comply with Gold River Feed Products Industrial Wastewater Discharge Permit No. 20, the Shelbyville Power Water and Sewerage System Sewer Use Ordinance and the State of Tennessee Pretreatment Program shall be completed.
5. Reports shall be submitted no later than the anniversary date of each milestone indicating compliance. Requests to extend the compliance milestone shall be submitted prior to the anniversary date requesting an extension of the date and the reasons for the request, and shall be sent, in writing and signed by an authorized representative, to the following addresses:

Bill Morrow, Pretreatment Coordinator
SHELBYVILLE POWER, WATER & SEWERAGE SYSTEM
P. O. Box 530
Shelbyville, TN 37162

and

David Crowell, General Manager
SHELBYVILLE POWER, WATER & SEWERAGE SYSTEM
P. O. Box 530
Shelbyville, TN 37162

6. This Order does not constitute a waiver of any provisions of the industrial wastewater discharge permit which shall remain in full force and effect. The Shelbyville Power, Water and Sewerage Systems reserves the right to seek any and all remedies available to it under the Shelbyville Sewer Use Ordinance and Enforcement Response Plan for any violation cited by this Order.
7. Failure to comply with the requirements of this Order shall constitute a further violation of the **City of Shelbyville Sewer Use Ordinance** and may subject Gold River Feed Products to civil or criminal penalties or such other enforcement response as may be appropriate.
8. This Order, entered into this 25th day of November, 2019, shall be effective upon receipt by Gold River Feed Products.



David Crowell, General Manager
Shelbyville Power, Water and Sewerage Systems
P.O. Box 530
Shelbyville, Tennessee 37160

cc: Bill Morrow, SPWSS Pretreatment Coordinator
Melissa Boner, Wauford Pretreatment Coordinator
Jim Patterson, St. John Engineering Environmental Manager
T. Price Thompson, III, Rochelle, McCulloch & Aulds

From: [Bill Morrow](#)
To: [Laurel Rognstad](#)
Cc: [DeWitt Logsdon](#); [Melissa Boner](#)
Subject: [EXTERNAL] SAR Report Correction
Date: Wednesday, May 20, 2020 10:57:08 AM
Attachments: [image001.jpg](#)
[NSARS20.doc](#)

***** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. *****

Laurel,

Attached is the revised SAR for the typo on Form 4 and is noted in the narrative summary.

Sincerely,

Bill Morrow
Pretreatment Coordinator
bmorrow@shelbyvillepower.com
SHELBYVILLE POWER, WATER & SEWERAGE SYSTEM
P. O. Box 530
Shelbyville, TN 37162
Phone: 931-684-4970
Fax: 931-684-4986





Tennessee Department of Environment and Conservation
 Division of Water Resources
 312 Rosa L. Parks, 11th Floor
 Nashville, TN 37243-1534
 (615) 532-0625

CONTROL AUTHORITY PRETREATMENT SEMI-ANNUAL/ANNUAL REPORT

Control Authority Identification:				
Control Authority Name :	Shelbyville Power, Water & Sewerage Systems			
Report Date :	4-28-20			
Reporting Period Covered by this report	From	10-01-19	To	03-31-20
Reporting Period Covered by previous report	From	04-01-19	To	09-30-19

Name of Wastewater Treatment Plant(s)	NPDES Permit No.
1. Shelbyville Wastewater Treatment Plant	TN0024180
2.	
3.	
4.	
5.	

Person to contact concerning this report: Bill Morrow	Title or Position: Pretreatment Coordinator		
Mailing Address: P.O. Box 530	City: Shelbyville	State: TN	Zip: 37162
Phone number(s): 931-684-4970	E-mail (optional): Bmorrow@shelbyvillepower.com		
Fax number (optional): 931-684-4986	Website (optional):		

Report Certification: (must be signed in accordance with the requirements of Tennessee Rule 1200-4-14-.12(13))	
"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(s) who manage the system or are directly responsible for gathering the information, the submitted 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. A false statement is subject to the penalties of perjury."	
Name: (print or type) David H. Crowell	Title: (print or type) General Manager
Signature:	Date:

Pretreatment – Narrative Summary

1. Calsonic Corp, Permit #6 has changed their name to Marelli North America but has not changed ownership.
2. Calsonic Corp, Permit #6 had no process discharges from October 2019 thru February 2020. The facility had a process discharge in March 2020.
3. Calsonic Corp, Permit #6 was in Significant Non-Compliance for a TRC violation during the July thru December reporting period on Form 5b.
4. Calsonic Corp, Permit #6 is currently shut down due to COVID-19.
5. Gold River Feed Products, Permit #20 was reclassified to a “Significant Industrial User” instead of “Other” on October 1, 2019 due to increase flow, fluctuating pH, fluctuating high temperatures, and continuous BOD surcharges.
6. Gold River Feed Products, Permit #20 was issued an Administrative Compliance Order on October 23, 2019. After a meeting concerning the Administrative Compliance Order, an Administrative (Agreed) Consent Order was issued on November 25, 2019. Please find attached a copy of the Administrative Consent Order which contains the violations and due dates for major milestones. The initial Plans were submitted to comply with the first milestone. After reviewing the Plans, a response was sent to Gold River Feed Products April 3.
7. Gold River Feed Products, Permit #20 was in compliance with the pH and temperature limits of the permit for February and March, 2020. The violations have decreased since issuance of the Administrative Consent Order.
8. A typo on Form 4 on the SAR Report had the inspection date for Calsonic Permit #6 on 1/30/19. The actual date of the inspection date was 1/29/20. Please see the revision made today 5/20/20.

Form 1a

Results of Sampling at Control Authority

Sample Date(s): 12-05-19

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Parameter	Influent (mg/l)	Protection criteria (mg/l)	Effluent (mg/l)	Pass Through Limit (mg/l)	Removal Rate (%)
Copper (Cu)	0.0228	0.5714	0.00357	0.08	84%
Chromium III	0.00169	Report only	<0.00100	Report only	>41%
Chromium VI	<0.0100	Report only	<0.0100	Report only	N/A
Chromium Total	0.00169	Report only	<0.00100	Report only	>41%
Nickel (Ni)	0.00163	0.31	<0.00100	0.18	>39%
Cadmium (Cd)	<0.00100	0.015	<0.00100	0.00498	N/A
Lead (Pb)	0.00128	0.115	<0.00100	0.045	>22%
Mercury (Hg)	<0.000200	0.001	<0.000200	0.0004	N/A
Silver (Ag)	<0.00100	0.02	<0.00100	0.005	N/A
Zinc (Zn)	0.0894	0.952	0.0261	0.2	71%
Cyanide (Cn)	<0.00500	0.0664	<0.00500	0.0206	N/A
Phenols, Total	0.0425	0.5	<0.0400	0.05	>6%
Toluene					
Benzene					
1,1,1-trichloroethane					
Ethylbenzene					
Carbon tetrachloride					
Chloroform					
Tetrachloroethylene					
Trichloroethylene					
1,2 trans dichloroethylene					
Methylene chloride					
Naphthalene					
Total phthalates					

Include any parameters sampled in the reporting period including the routine semiannual sampling as well as the effluent sampling specified in Section III of the National Pollution Discharge Elimination System (NPDES) permit, including applicable toxic organics (i.e., toluene, benzene, 1,1,1 – trichloroethane and chloroform).

You must sample for all parameters in your NPDES Permit at the required frequency (See Part 3 of your NPDES permit for required pretreatment monitoring).

Form 1a

Results of Sampling at Control Authority

Sample Date(s): 3-05-20

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Parameter	Influent (mg/l)	Protection criteria (mg/l)	Effluent (mg/l)	Pass Through Limit (mg/l)	Removal Rate (%)
Copper (Cu)	0.0174	0.5714	0.00482	0.08	72%
Chromium III	0.00125	Report only	<0.00100	Report only	>20%
Chromium VI	<0.0100	Report only	<0.0100	Report only	N/A
Chromium Total	0.00125	Report only	<0.00100	Report only	>20%
Nickel (Ni)	0.00145	0.31	<0.00100	0.18	>31%
Cadmium (Cd)	<0.00100	0.015	<0.00100	0.00498	N/A
Lead (Pb)	0.00156	0.115	<0.00100	0.045	>36%
Mercury (Hg)	<0.000200	0.001	<0.000200	0.0004	N/A
Silver (Ag)	<0.00100	0.02	<0.00100	0.005	N/A
Zinc (Zn)	0.0885	0.952	0.0283	0.2	68%
Cyanide (Cn)	<0.00500	0.0664	<0.00500	0.0206	N/A
Phenols, Total	0.0479	0.5	<0.0400	0.05	>16%
Toluene					
Benzene					
1,1,1-trichloroethane					
Ethylbenzene					
Carbon tetrachloride					
Chloroform					
Tetrachloroethylene					
Trichloroethylene					
1,2 trans dichloroethylene					
Methylene chloride					
Naphthalene					
Total phthalates					

Include any parameters sampled in the reporting period including the routine semiannual sampling as well as the effluent sampling specified in Section III of the National Pollution Discharge Elimination System (NPDES) permit, including applicable toxic organics (i.e., toluene, benzene, 1,1,1 – trichloroethane and chloroform).

You must sample for all parameters in your NPDES Permit at the required frequency (See Part 3 of your NPDES permit for required pretreatment monitoring).

**Form 1b
Biosolids**

What does the Control Authority do with the sludge/biosolids? Land Apply 11-18-19

If biosolids are land-applied, please fill out the following Table.

Parameter	Biosolids Concentration (mg/kg)	503 Table 1 limits Ceiling Concentration (mg/kg)	503 Table 3 limits Monthly Ave. (mg/kg)
Arsenic	2.15	75	41
Cadmium	1.49	85	39
Copper	333	4300	1500
Lead	21.2	840	300
Mercury	0.320	57	17
Molybdenum	7	75	N/A
Nickel	14.7	420	420
Selenium	6.64	100	100
Zinc	891	7500	2800

Were there any samples of biosolids that exceeded the ceiling concentrations from 40 CFR Part 503 (Table 1)? No

What date(s)? N/A

**Form 1b
Biosolids**

What does the Control Authority do with the sludge/biosolids? Land Apply 02-12-20

If biosolids are land-applied, please fill out the following Table.

Parameter	Biosolids Concentration (mg/kg)	503 Table 1 limits Ceiling Concentration (mg/kg)	503 Table 3 limits Monthly Ave. (mg/kg)
Arsenic	1.78	75	41
Cadmium	1.14	85	39
Copper	278	4300	1500
Lead	17.5	840	300
Mercury	0.222	57	17
Molybdenum	6.91	75	N/A
Nickel	15.2	420	420
Selenium	5.93	100	100
Zinc	725	7500	2800

Were there any samples of biosolids that exceeded the ceiling concentrations from 40 CFR Part 503 (Table 1)? No

What date(s)? N/A

Form 2
Report of Upsets, Protection Criteria Violations, Biosolids Violations and
Pass-Through Limit Violations

Type of Incident	Date	Explanation of Incidents	Corrective Action Taken
None			

* Give a detailed explanation of the causes of the incident and the corrective action taken to date. The corrective action should also include any plans the Control Authority has to identify or correct the problem. If there is not enough room on this form, include the information in the Narrative Summary.

Form 3
Industrial User Summary

Industrial User Name and Mailing Address	Contact (indicate Mr./Ms.) Phone #/Fax# and email address (optional)	Type of Industry **	Actual Flow (GPD)
Calsonic Mfg. Corp. #6 P.O. Box 350 Shelbyville, TN 37162	Mr. Pat Lynch	SN-Radiators- Evaporators-Condenser	1,640 Batch
Gold River Feed Products Permit #20 783 Eagle Boulevard Shelbyville, TN 37160	Mr. Ivan Pedigo	SN- Production of Animal Feed Supplements	35,353 Varies Greatly Based on Production

****If a Significant Industrial User (SIU) is Categorical, list the applicable category (i.e., metal finisher, electroplater, leather tanner, etc.). Non-categorical SIUs should be listed as SN (Significant Non-Categorical), with a description of the process (i.e., SN-landfill or SN-hospital). All Non-significant Categorical Industrial Users (NSCIU) should be listed on the form and identified as an NSCIU. Information on NSCIUs is required on Form 3, but not required on any other form in this report. Industries that are not significant and not categorical are not required to be listed in this report. However, if you wish to list them on this form, please identify them as "Other."**

Form 4				
Industrial User Monitoring Report				
Column 1	Column 2	Column 3	Column 4	Column 5
Industrial User Name and Mailing Address	Control Authority Inspection Date(s)	Control Authority Sampling Frequency	Control Authority Sampling Date(s)	SIU Self-Monitoring Dates(s)
Calsonic Mfg. Corp. Permit #6 P.O. Box 350 Shelbyville, TN 37162	1/29/20	Semi-Annual	2/4/19	12/04/2018 3/13/2019 Monthly TSS
Gold River Feed Products Permit #20 783 Eagle Blvd. Shelbyville, TN 37160	1/27/20	Annual	9/12/19 9/13/19	10/23/19 1/10/20 Monthly BOD Continuous: pH, Temp & Flow

Form 5a Industrial User Compliance Report

Semi-annual reporters only must complete this form
(For semi-annual reporting period April 1, _____ – September 30, _____)

Column 1	Column 2		Column 3		Column 4		Column 5		Column 6	
	January – March		April – June		July – September		January – June		April – September	
Industrial User	Parameters Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)

Use one line for each parameter for each SIU with violations, showing whether a Technical Review Criteria (TRC) or Chronic Violation resulted: Yes for violations resulting in TRC or Chronic – both are Significant Non-Compliance (SNC) or No for violations not resulting in TRC/Chronic Violations. Please note that monthly average and daily maximum for a specific parameter are considered to be separate limitations. Therefore, SNC would be calculated separately for each limitation. “Conc” stands for concentration.

Form 5b Industrial User Compliance Report

Semi-annual reporters only must complete this form
(For semi-annual reporting period October 1, 2019– March 31, 2020)

Column 1	Column 2		Column 3		Column 4		Column 5		Column 6	
	July – September		October – December		Jan – March		July – December		October – March	
Industrial User	Parameters Violated (conc/limit)	Total Number of Samples	Parameters Violated (conc/limit)	Total Number of Samples	Parameters Violated (conc/limit)	Total Number of Samples	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)
Calsonic Mfg. Corp. Permit #6	TSS 1 2070/1000	3	No Discharge	0	TSS 0 1000	2	No	Yes	No	No
Gold River Feed Products Permit #20			pH <5 9 pH 5 to 10	92	pH <5 4 pH 5 to 10	90	No	No	No	No
Gold River Feed Products Permit #20			pH >10 28 pH 5 to 10	92	pH >10 7 pH 5 to 10	90	No	No	No	No
Gold River Feed Products Permit #20			Temp >104 11 104 F	92	Temp >104 0 104 F	90				

Use one line for each parameter for each SIU with violations, showing whether a Technical Review Criteria (TRC) or Chronic Violation resulted: Yes for violations resulting in TRC or Chronic – both are Significant Non-Compliance (SNC) or No for violations not resulting in TRC/Chronic Violations. Please note that monthly average and daily maximum for a specific parameter are considered to be separate limitations. Therefore, SNC would be calculated separately for each limitation. “Conc” stands for concentration.

Form 5c Industrial User Compliance Report

Annual reporters only must complete this form
(For semi-annual reporting period January 1, _____ – December 31, _____)

Column 1	Column 2		Column 3		Column 4		Column 5		Column 6	
	October – December		January – March		April – June		July – September		October – December	
Industrial User	Parameters Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples	Parameters Total Violated (conc/limit)	Total Number of Samples

Use one line for each parameter for each SIU with violations, showing whether a Technical Review Criteria (TRC) or Chronic Violation resulted: Yes for violations resulting in TRC or Chronic – both are Significant Non-Compliance (SNC) or No for violations not resulting in TRC/Chronic Violations. Please note that monthly average and daily maximum for a specific parameter are considered to be separate limitations. Therefore, SNC would be calculated separately for each limitation. “Conc” stands for concentration.

Form 5d Industrial User Compliance Report

Annual reporters only must complete this form
(For semi-annual reporting period January 1, _____ – December 31, _____)

Column 1	Column 2		Column 3		Column 4		Column 5	
	October – March		January – June		April – September		July – December	
Industrial User	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)	Chronic Viol. (Yes or No)	TRC Viol. (Yes or No)

Use one line for each parameter for each SIU with violations, showing whether a Technical Review Criteria (TRC) or Chronic Violation resulted: Yes for violations resulting in TRC or Chronic – both are Significant Non-Compliance (SNC) or No for violations not resulting in TRC/Chronic Violations. Please note that monthly average and daily maximum for a specific parameter are considered to be separate limitations. Therefore, SNC would be calculated separately for each limitation. "Conc" stands for concentration.

Form 6
Enforcement and Compliance

Industrial User	Verbal Warnings (1) (Enter Number)	Notice of Violation (Enter Number)	Compliance Schedule Conformity (2)	Administrative Orders (Enter Number)	Number of Violations Resolved
Gold River #20		59	Yes	1	0

1 Verbal warnings include phone calls and site visit discussions.

2 Use the following code:
 In compliance with schedule = Yes
 Out of compliance with schedule = No
 Facility not on a schedule = NA

Note: Describe compliance schedule in a footnote or in the Narrative Summary, giving the date issued, the violation and due dates for major milestones.

Form 7

Pretreatment Performance Summary

I. General Information

Control Authority Name: Shelbyville Power, Water & Sewerage Systems

Address: P.O. Box 530 P.O. Box 530

City: Shelbyville, TN 37162

Contact Person: Bill Morrow

Contact Phone Number: 931-684-4970

Reporting Period: 10-01-19 to 03-31-20

NPDES Number: TN0024180

Number of Categorical SIUs:

Number of Non-Categorical SIUs:

Total Number of SIUs:

0

2

2

II. Significant Industrial Compliance

SIUs

Categorical

Non- Categorical

1) No. of SIUs in Significant Non-compliance (SNC)

0

2

2) Reasons for Significant Non-compliance (SNC)

0

2

a) In SNC for Violations of pretreatment standards

0

1

b) In SNC for Reporting Violations

0

0

c) In SNC for Compliance Schedule Violations

0

0

d) In SNC for Other (explain in Narrative Summary)

0

1

III. Monitoring

SIUs

Categorical

Non- Categorical

1) Facilities Monitored by CA (samples analyzed for all SIU permit parameters):

a) No. of SIUs Sampled by the Control Authority (CA)

0

1

b) No. of SIUs Inspected by the CA

0

2

2) Total Monitoring Events:

a) No. of Samples by the CA

0

1

b) No. of Inspections by the CA

0

2

3) How many SIUs do not have a current control mechanism (permit)

0

2

IV. Enforcement

SIUs

Categorical

Non- Categorical

1) SIUs Subject to Any Enforcement Actions (include verbal warnings)

0

1

2) SIUs Listed in the Newspaper for SNC in this period

0

0

3) Notices of Violations Issued *

0

59

4) Administrative Orders Issued *

0

1

5) No. of SIUs on Compliance Schedules (anytime in period)

0

1

6) Suits Filed:

a) Civil Suits *

0

0

b) Criminal Suits *

0

0

7) Other Actions Taken (sewer bans, etc. but not verbals) *

0

0

8) Penalties Collected: (not surcharges)

a) No. of SIUs from whom penalties were collected

0

0

b) Total Dollars (\$) collected in the period

0

0

* Enter the number of ACTIONS, not the number of SIUs