

April 16, 2019

Mr. Conor Neal  
Geologist  
EPA Region 5  
Land & Chemicals Division  
77 West Jackson Blvd, LU-9J  
Chicago, IL 60604-3590

Subject: Quarterly Progress Report (January through March 2019)  
Administrative Order on Consent (February 26, 2009)  
Tyco Fire Products LP  
Stanton Street Facility  
Marinette, Wisconsin  
WID 006 125 215

Dear Mr. Neal:

Section VI, 21, b (Page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009, requires Tyco Fire Products LP (Tyco) to submit quarterly progress reports to the U.S. Environmental Protection Agency (USEPA) Region 5 and the Wisconsin Department of Natural Resources (WDNR). The reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) Corrective Actions at the Tyco facility in Marinette, Wisconsin. The enclosed report covers the period from January 1, 2019 through March 31, 2019, and presents a brief description of the work completed to date, data collected, problems encountered, and schedule of activities as required by the February 2009 AOC.

### **Work Completed During this Reporting Period**

Operation of the groundwater collection and treatment system (GWCTS) continued through the first quarter of 2019. A summary of the operational data is included as Attachment 1. The Discharge Monitoring Reports (DMRs) are included in Attachment 2.

### **Additional Activities**

Tyco continued engineering work on the conveyance system for the permanent Pump Down Program approach.

### **Data Collected**

Extraction and treatment volumes, analytical testing, and discharge data are required as part of the Wisconsin Pollutant Discharge and Elimination System (WPDES) permits obtained from WDNR for operation of the GWCTS. The GWCTS operates under permit WPDES WI-0001040-07-0. Attachment 2 includes the monthly WPDES DMRs for January 2019 through March 2019 for the GWCTS. Additional data on the operation of the GWCTS is included in Attachment 1.

Groundwater elevation data were collected from monitoring wells located in the former 8<sup>th</sup> Street Slip and Salt Vault as part of the interim shut down (winter period) for the pump down program. Groundwater elevation data were collected on January 16, 2019, February 14, 2019, and March 26, 2019 and were provided to the agencies under separate email submittals following data collection`.

Tyco completed the quarterly download of data from the transducers installed in prescribed monitoring wells on January 17, 2019. Manual groundwater elevation data was obtained at each transducer location for calibration of the data at the time of the download. Manual groundwater elevation data were also collected from the former 8<sup>th</sup> Street Slip and former Salt Vault areas in accordance with the pump down program requirements.

## Problems Encountered

No major issues encountered during the first quarter of 2019.

## Schedule of Upcoming Activities

The following is a summary of activities to be conducted during the next reporting period.

- Submit the quarterly progress report.
- Complete the 2<sup>nd</sup> quarter semi-annual barrier wall, cover area, and monitoring well inspections.
- Complete the spring barrier wall monitoring sampling event.
- Address any inspection findings for the vertical barrier wall, cover areas, and monitoring wells.
- Recommence pump down operations in the former Salt Vault and former 8<sup>th</sup> Street Slip areas.
- Complete 2<sup>nd</sup> quarter tree plot inspections.
- Meet with USEPA to discuss comments of the 5 year technical review
- Respond to comments on 5 year technical review

## List of Key Correspondence and Document Submittals

Table 1

Documents Submitted

*Quarterly Progress Report (January to March 2019), Tyco Fire Products LP Facility, Marinette, Wisconsin*

<b>Description of Submittal</b>	<b>Submitted To</b>	<b>Date Submitted</b>
Quarterly Progress Report	USEPA	January 15, 2019
Email Notification on Groundwater Notification of Change on Project Manager	USEPA	February 4, 2019
TYCO WPDES Variance Letter	WDNR	February 18, 2019

Draft Addendum to BWGMPU

USEPA

February 20, 2019

Table 2

Correspondence from Agency  
*Quarterly Progress Report (January  
through March 2018) Tyco Fire Products  
LP Facility, Marinette, Wisconsin*

Description of Correspondence	Submitted To	Date Submitted
EPA 5 year review comments	Tyco	March 14, 2019
EPA/WDNR Comments on BWGMPU addendum	Tyco	March 25, 2019

Please contact me at 715-587-6670 if you have any questions or require additional information.

Respectfully Yours,

Tyco Fire Products LP

*Ryan Suennen*

Ryan Suennen  
Environmental Field Projects

#### Attachments

- 1 GWCTS Operation Summary
- 2 DMRs for the GWCTS

cc: Angela Carey, WDNR  
Jim Killian, WDNR  
Joe Janeczek, Johnson Controls  
Jeff Danko, Johnson Controls  
Mariel Carter, Stephenson Public Library

Document Control No.: 20190415 US10.11014

**Attachment 1**  
**GWCTS Operation Summary**

# Groundwater Collection and Treatment System Operation

SUBJECT: Groundwater Collection and Treatment System Operation for Tyco Fire Products LP, Marinette, Wisconsin

DATE: April 16, 2019

Operation of the groundwater collection and treatment system (GWCTS) occurring from January 1, 2019 through March 31, 2019 is summarized below:

- The GWCTS operated for 15 days in January, 16 days in February, and 14 days in March, for a total of 45 days.
- Approximately 75,100 gallons of reject water was produced during system operations and subsequently disposed of offsite.
- The precipitation recorded from the weather station in Marinette, Wisconsin was 5.74 inches of rain and 55.2 inches of snow. (<http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail>).
- An estimated total of 239,785 gallons was discharged to the Menominee River as effluent under WPDES permit.
- An estimated total of 198,593 gallons of groundwater were extracted (not including volumes extracted as part of the pump down program) from the site during the reporting period. Details of water volumes extracted from each area of the site and changes in water levels are shown in the Table 1 below.

Table 1 - Extraction Well Data Summary

Extraction Well	Gallons Run Q1 2019 (1/01/2019-3/31/2019)
EW-1	23,005
EW-2	26
EW-3	22
EW-4	815
EW-5	77,623
EW-6	86,552
EW-7	10,550
Total	198,593

**Attachment 2**  
**DMRs**



eReport Certify - TYCO FIRE PRODUCTS LP - 450471

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
417200  
Reporting Period  
1/1/2019 to 1/31/2019  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Certification complete.

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Questions or comments about this e-form : [Contact Us](#)

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: TYCO FIRE PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 01/01/2019 - 01/31/2019  
 Form Due Date: 02/21/2019  
 Permit Number: 0001040

Date Received:  
 DOC: 417200  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

	Sample Point	001	703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	0.00520		48	7.4	7.6
	2	0.11082		51	6.8	7.2
	3	0.11626		52	6.7	6.9
	4	0.11134		54	6.4	6.9
	5	0.00163		56	6.9	8.2
	6	0.03989		52	7.3	7.9
	7	0.22773		52	7.1	7.6
	8	0.12185		51	6.7	7.8
	9	0.10989		50	6.6	7.0
	10	0.11961		57	6.6	6.7
	11	0.06935		57	6.7	7.0
	12	0.0		48	7.0	7.2
	13	0.00675		51	6.8	7.1
	14	0.01476		53	6.6	7.0
	15	0.02049		50	6.6	7.1
	16	0.11678		50	7.0	7.1
	17	0.12141		50	6.8	7.0
	18	0.09738		53	6.8	7.0
	19	0.00257		44	7.0	7.4
	20	0.00091		40	7.4	7.5
	21	0.03931		45	6.9	7.4
	22	0.11877		50	6.8	6.9
	23	0.11954		50	6.6	6.9
	24	0.11516	0.87	63	6.8	7.0
	25	0.14862		48	6.9	7.0
	26	0.05543		48	6.8	7.3
	27	0.00406		44	7.0	7.6
	28	0.00997		47	6.8	7.0
	29	0.10500		47	6.8	7.4
	30	0.06455		48	7.2	7.3
	31	0.05933		46	7.2	7.3



	Sample Point	001	703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
<b>Summary Values</b>	Monthly Avg	0.07272129	0.87	50.161290323	6.870967742	7.235483871
	Monthly Total					
	Daily Max	0.22773	0.87	63	7.4	8.2
	Daily Min	0	0.87	40	6.4	6.7
	Rolling 12 Month Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total					
	Daily Max					11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
<b>QA/QC Information</b>	LOD		0.12			
	LOQ		0.39			
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460			

Sample Point	001	001	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	379	376	388	231	35	
Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable	
Units	minutes	Number	mg/L	mg/L	ug/L	
Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP	
Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY	
<b>Sample Results</b>	<b>Day 1</b>					
	2			0.21	230	77
	3					
	4					
	5					
	6					
	7					
	8			0.19	200	39
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16			0.19	320	91
	17					
	18					
	19					
	20					
	21					
	22			0.18	230	21
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

Sample Point	001	001	001	001	001		
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER		
Parameter	379	376	388	231	35		
Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable		
Units	minutes	Number	mg/L	mg/L	ug/L		
<b>Summary Values</b>	Monthly Avg			0.1925	245	57	
	Monthly Total						
	Daily Max			0.21	320	91	
	Daily Min			0.18	200	21	
	Rolling 12 Month Avg			0.2			
<b>Limit(s) in Effect</b>	Monthly Avg						
	Monthly Total	446	0				
	Daily Max		0	0		680	0
	Daily Min						
	Rolling 12 Month Avg				1	0	
<b>QA/QC Information</b>	LOD			0.024		2.1	
	LOQ			0.05		5	
	QC Exceedance	N	N	N	N	N	
	Lab Certification			999580010	999580010	999580010	

Sample Point	001	001	001	001	001
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
Parameter	35	147	147	87	152
Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable
Units	lbs/day	ug/L	lbs/day	ug/L	ug/L
Sample Type	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1				
	2	0.07084	13	0.01196	<0.49
	3				
	4				
	5				
	6				
	7				
	8	0.03978	25	0.0255	0.78
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16	0.08827	25	0.02425	1.1
	17				
	18				
	19				
	20				
	21				
	22	0.02079	11	0.01089	<0.49
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				

	Sample Point	001		001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	35		147		147		87		152	
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Cadmium, Total Recoverable		Cyanide, Amenable	
	Units	lbs/day		ug/L		lbs/day		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0.05492		18.5		0.01815		0.47		0	
	Monthly Total										
	Daily Max	0.08827		25		0.0255		1.1		<3	
	Daily Min	0.02079		11		0.01089		<0.49		<3	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg										
	Monthly Total										
	Daily Max	12	0	69	0	0.98	0				
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD			1.7				0.49		3	
	LOQ			5				1		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			999580010				999580010		999580010	

Sample Point	001	001	101	101	101	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	
Parameter	112	280	211	457	342	
Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)	
Units	ug/L	ng/L	MGD	mg/L	mg/L	
Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB	
Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2WEEK	
Sample Results	Day 1					
	2		0.011394	5.0	2.0	
	3		0.019793	<1.9	2.5	
	4		0.020623	<1.9		
	5		0.000800	3.5		
	6					
	7			0.010558	4.5	
	8			0.020016	4.5	2.6
	9			0.013897	2.5	2.1
	10			0.019422	3.5	
	11			0.013840	2.5	
	12					
	13					
	14			0.008989	4.0	
	15			0.007879	3.5	2.9
	16	<30.0		0.010983	4.0	2.5
	17			0.016735	3.0	
	18			0.012046	<1.9	
	19			0.000881	2.5	
	20					
	21					
	22			0.013610	6.0	3.3
	23			0.013596	3.5	
	24		0.86	0.010822	<1.9	2.8
	25			0.009540	3.5	
	26			0.003295	4.5	
	27					
	28			0.009302	2.0	
	29			0.006352	4.5	
	30			0.009422	2.5	
	31			0.004873	3.0	

	Sample Point	001	001	101	101	101		
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent		
	Parameter	112	280	211	457	342		
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)		
	Units	ug/L	ng/L	MGD	mg/L	mg/L		
<b>Summary Values</b>	Monthly Avg	0	0.86	0.0111945	3.020833333	2.5875		
	Monthly Total							
	Daily Max	<30	0.86	0.020623	6	3.3		
	Daily Min	<30	0.86	0.0008	<1.9	2		
	Rolling 12 Month Avg							
<b>Limit(s) in Effect</b>	Monthly Avg				31	0	26	0
	Monthly Total							
	Daily Max				60	0	52	0
	Daily Min							
	Rolling 12 Month Avg							
<b>QA/QC Information</b>	LOD	30	0.12				1.5	
	LOQ	100	0.39				5.6	
	QC Exceedance	N	N	N	N	N	N	
	Lab Certification		721026460		999580010	999580010		

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	87	133	315	553	155
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Cyanide, Total
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	GRAB
	<b>Frequency</b>	2/WEEK	MONTHLY	2/WEEK	2/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>	<0.49	<2.2	27	310	<3.0
	<b>3</b>	<0.49	<2.2	24	96	
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	0.60	<2.2	16	56	
	<b>9</b>	<0.49	<2.2	24	56	
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	0.67	<2.2	13	210	
	<b>16</b>	0.58	<2.2	26	82	
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>	<0.49	2.3	39	500	
	<b>23</b>	<0.49	<2.2	14	120	
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					



	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	87		133		315		553		155	
	Description	Cadmium, Total Recoverable		Chromium, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Cyanide, Total	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0.23125		0.2875		22.875		178.75		0	
	Monthly Total										
	Daily Max	0.67		2.3		39		500		<3	
	Daily Min	<0.49		<2.2		13		56		<3	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	0.49		2.2		1.5		3.6		3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	147	264	430	374	373
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	<b>Units</b>	ug/L	ug/L	ug/L	su	su
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>	10	<1.3	<1.1	7.0	7.6
	<b>3</b>	7.0	<1.3	<1.1	6.8	7.9
	<b>4</b>				6.8	7.6
	<b>5</b>				6.4	6.8
	<b>6</b>					
	<b>7</b>				6.9	7.5
	<b>8</b>	11	<1.3	<1.1	6.9	8.4
	<b>9</b>	8.6	<1.3	<1.1	6.7	7.6
	<b>10</b>				6.8	8.9
	<b>11</b>				6.8	7.6
	<b>12</b>					
	<b>13</b>					
	<b>14</b>				6.7	8.6
	<b>15</b>	23	<1.3	<1.1	6.8	8.6
	<b>16</b>	20	<1.3	<1.1	6.6	7.6
	<b>17</b>				6.8	7.4
	<b>18</b>				6.8	7.3
	<b>19</b>				6.8	7.2
	<b>20</b>					
	<b>21</b>					
	<b>22</b>	15	<1.3	<1.1	6.3	7.8
	<b>23</b>	14	<1.3	<1.1	6.9	7.8
	<b>24</b>				6.6	7.2
	<b>25</b>				6.6	7.8
	<b>26</b>				6.0	7.3
	<b>27</b>					
	<b>28</b>				7.0	7.4
	<b>29</b>				6.7	7.6
	<b>30</b>				6.6	7.3
	<b>31</b>				6.4	7.0

	<b>Sample Point</b>	101		101		101		101		101	
	<b>Description</b>	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	<b>Parameter</b>	147		264		430		374		373	
	<b>Description</b>	Copper, Total Recoverable		Lead, Total Recoverable		Silver, Total Recoverable		pH (Minimum)		pH (Maximum)	
	<b>Units</b>	ug/L		ug/L		ug/L		su		su	
<b>Summary Values</b>	<b>Monthly Avg</b>	13.575		0		0		6.695833333		7.658333333	
	<b>Monthly Total</b>										
	<b>Daily Max</b>	23		<1.3		<1.1		7		8.9	
	<b>Daily Min</b>	7		<1.3		<1.1		6		6.8	
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	2070	0	430	0	240	0				
	<b>Monthly Total</b>										
	<b>Daily Max</b>	3380	0	690	0	430	0			11	0
	<b>Daily Min</b>							4	0		
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>	1.7		1.3		1.1					
	<b>LOQ</b>	5		2.5		2.5					
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	999580010		999580010		999580010					

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	379	376	507	40	490
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	<b>Units</b>	minutes	Number	ug/L	ug/L	ug/L
	<b>Sample Type</b>	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	<b>Sample Point</b>	101		101		101		101		101	
	<b>Description</b>	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	<b>Parameter</b>	379		376		507		40		490	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Total Toxic Organics		Benzene		Tetrachloroethylene	
	<b>Units</b>	minutes		Number		ug/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>										
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>	446	0	0	0						
	<b>Daily Max</b>					2130					
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>										
	<b>LOQ</b>										
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>										

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	500	561	200	508	285
	<b>Description</b>	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	500	561	200	508	285
	<b>Description</b>	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Rolling 12 Month Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Rolling 12 Month Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>					
	<b>LOQ</b>					
	<b>QC Exceedance</b>					
	<b>Lab Certification</b>					

Sample Point	101	106	106	106	107	
Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results	
Parameter	167	211	35	457	280	
Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable	
Units	ug/L	gpd	ug/L	mg/L	ng/L	
Sample Type	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB	
Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY	
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					<0.12
	25					
	26					
	27					
	28					
	29					
	30					
	31					



	<b>Sample Point</b>	101	106	106	106	107
	<b>Description</b>	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank, Results
	<b>Parameter</b>	167	211	35	457	280
	<b>Description</b>	DI-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	<b>Units</b>	ug/L	gpd	ug/L	mg/L	ng/L
<b>Summary Values</b>	<b>Monthly Avg</b>					0
	<b>Monthly Total</b>					
	<b>Daily Max</b>					<0.12
	<b>Daily Min</b>					<0.12
	<b>Rolling 12 Month Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Rolling 12 Month Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>					0.12
	<b>LOQ</b>					0.39
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>					721026460

Sample Point	003	003	003	003	003	
Description	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	
Parameter	211	457	35	374	373	
Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)	
Units	MGD	mg/L	ug/L	su	su	
Sample Type	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS	
Frequency	DAILY	WEEKLY	WEEKLY	DAILY	DAILY	
Sample Results	Day 1					
	2					
	3	0.003545			6.0	6.0
	4					
	5					
	6					
	7					
	8	0.010158	<1.9	100	8.0	8.9
	9	0.006579			8.6	8.8
	10					
	11					
	12					
	13					
	14					
	15	0.010739	<1.9	61	8.6	8.9
	16					
	17					
	18	0.003528			6.0	6.0
	19					
	20					
	21					
	22					
	23	0.007755	<1.9	110	6.3	8.7
	24	0.005175			7.3	7.4
	25	0.003775			7.6	7.9
	26					
	27					
	28					
	29					
	30	0.012090			8.5	8.9
	31					

	Sample Point	003	003	003	003	003	
	Description	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	
	Parameter	211	457	35	374	373	
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)	
	Units	MGD	mg/L	ug/L	su	su	
<b>Summary Values</b>	Monthly Avg	0.007038222	0	90.333333333	7.433333333	7.944444444	
	Monthly Total						
	Daily Max	0.01209	<1.9	110	8.6	8.9	
	Daily Min	0.003528	<1.9	61	6	6	
	Rolling 12 Month Avg						
<b>Limit(s) in Effect</b>	Monthly Avg						
	Monthly Total						
	Daily Max			680	0	11	0
	Daily Min				4	0	
	Rolling 12 Month Avg						
<b>QA/QC Information</b>	LOD			2.1			
	LOQ			5			
	QC Exceedance	N	N	N	N	N	
	Lab Certification		999580010	999580010			

	<b>Sample Point</b>	003	003
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg
	<b>Parameter</b>	379	376
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	<b>Units</b>	minutes	Number
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>		
	<b>2</b>		
	<b>3</b>		
	<b>4</b>		
	<b>5</b>		
	<b>6</b>		
	<b>7</b>		
	<b>8</b>		
	<b>9</b>		
	<b>10</b>		
	<b>11</b>		
	<b>12</b>		
	<b>13</b>		
	<b>14</b>		
	<b>15</b>		
	<b>16</b>		
	<b>17</b>		
	<b>18</b>		
	<b>19</b>		
	<b>20</b>		
	<b>21</b>		
	<b>22</b>		
	<b>23</b>		
	<b>24</b>		
	<b>25</b>		
	<b>26</b>		
	<b>27</b>		
	<b>28</b>		
	<b>29</b>		
	<b>30</b>		
	<b>31</b>		

	<b>Sample Point</b>	003		003	
	<b>Description</b>	Future remedial action dischg		Future remedial action dischg	
	<b>Parameter</b>	379		376	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	<b>Units</b>	minutes		Number	
<b>Summary Values</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>				
	<b>Daily Max</b>				
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>	446	0		
	<b>Daily Max</b>			0	0
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>QA/QC Information</b>	<b>LOD</b>				
	<b>LOQ</b>				
	<b>QC Exceedance</b>	N		N	
	<b>Lab Certification</b>				

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

I did not have a sample for GW OF003 during the first week because the system was down all week and only ran a few hours one day but did not have enough sample for testing.

Laboratory Quality Control Comments



eReport Certify - TYCO FIRE PRODUCTS LP - 450472

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
417201  
Reporting Period  
2/1/2019 to 2/28/2019  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Certification complete.

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Questions or comments about this e-form : [Contact Us](#)

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: TYCO FIRE PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 02/01/2019 - 02/28/2019  
 Form Due Date: 03/21/2019  
 Permit Number: 0001040

Date Received:  
 DOC: 417201  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

Sample Point	001	703	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	211	280	487	374	373	
Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)	
Units	MGD	ng/L	degF	su	su	
Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS	
Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY	
Sample Results	Day 1	0.03412		50	7.2	7.5
	2	0.05794		51	7.2	7.4
	3	0.06151		52	7.1	7.3
	4	0.07831		51	7.0	7.2
	5	0.06843		52	7.0	7.3
	6	0.08027		66	7.0	7.5
	7	0.07204		53	6.9	7.4
	8	0.04204		51	6.9	7.2
	9	0.00209		46	7.1	7.3
	10	0.02826		44	7.0	7.4
	11	0.07436		53	6.9	7.1
	12	0.07537		53	6.9	7.4
	13	0.09263		55	6.9	7.3
	14	0.08824		59	6.8	7.2
	15	0.05493		62	6.8	7.2
	16	0.03937		54	6.8	7.2
	17	0.03874		46	7.0	7.6
	18	0.11452		51	6.8	7.0
	19	0.10616		51	6.8	6.9
	20	0.11619		51	6.7	7.0
	21	0.09200		54	6.7	6.9
	22	0.10267		51	6.7	6.9
	23	0.11693		50	6.7	7.0
	24	0.09205		41	6.7	7.0
	25	0.12770		51	6.7	7.1
	26	0.11362	0.67	50	6.6	6.8
	27	0.11744		50	6.6	6.8
	28	0.12081		52	6.6	6.7
	29					
	30					
	31					



Sample Point	001	703	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	211	280	487	374	373	
Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)	
Units	MGD	ng/L	degF	su	su	
<b>Summary Values</b>	<b>Monthly Avg</b>	0.078883571	0.67	51.785714286	6.860714286	7.164285714
	<b>Monthly Total</b>					
	<b>Daily Max</b>	0.1277	0.67	66	7.2	7.6
	<b>Daily Min</b>	0.00209	0.67	41	6.6	6.7
	<b>Rolling 12 Month Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					11 0
	<b>Daily Min</b>				4 0	
	<b>Rolling 12 Month Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>		0.12			
	<b>LOQ</b>		0.39			
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>		721026460			

Sample Point	001	001	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	379	376	388	231	35	
Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable	
Units	minutes	Number	mg/L	mg/L	ug/L	
Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP	
Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY	
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5			0.26	220	22
	6					
	7					
	8					
	9					
	10					
	11					
	12			0.12	190	13
	13					
	14					
	15					
	16					
	17					
	18			0.11	250	8.2
	19					
	20					
	21					
	22					
	23					
	24					
	25			0.14	210	12
	26					
	27					
	28					
	29					
	30					
	31					

Sample Point	001	001	001	001	001		
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER		
Parameter	379	376	388	231	35		
Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable		
Units	minutes	Number	mg/L	mg/L	ug/L		
<b>Summary Values</b>	<b>Monthly Avg</b>			0.1575	217.5	13.8	
	<b>Monthly Total</b>						
	<b>Daily Max</b>			0.26	250	22	
	<b>Daily Min</b>			0.11	190	8.2	
	<b>Rolling 12 Month Avg</b>			0.2			
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>						
	<b>Monthly Total</b>	446	0				
	<b>Daily Max</b>		0	0		680	0
	<b>Daily Min</b>						
	<b>Rolling 12 Month Avg</b>			1	0		
<b>QA/QC Information</b>	<b>LOD</b>			0.024		2.1	
	<b>LOQ</b>			0.05		5	
	<b>QC Exceedance</b>	N	N	N	N	N	
	<b>Lab Certification</b>			999580010	999580010	999580010	

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	<b>Parameter</b>	35	147	147	87	152
	<b>Description</b>	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable
	<b>Units</b>	lbs/day	ug/L	lbs/day	ug/L	ug/L
	<b>Sample Type</b>	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>	0.01254	16	0.00912	0.71	15
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>	0.00819	9.0	0.00567	<0.49	
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>	0.00779	9.0	0.00855	<0.49	
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>	0.01272	14	0.01484	<0.49	
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

Sample Point	001	001	001	001	001		
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER		
Parameter	35	147	147	87	152		
Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable		
Units	lbs/day	ug/L	lbs/day	ug/L	ug/L		
<b>Summary Values</b>	<b>Monthly Avg</b>	0.01031	12	0.009545	0.1775	15	
	<b>Monthly Total</b>						
	<b>Daily Max</b>	0.01272	16	0.01484	0.71	15	
	<b>Daily Min</b>	0.00779	9	0.00567	<0.49	15	
	<b>Rolling 12 Month Avg</b>						
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>						
	<b>Monthly Total</b>						
	<b>Daily Max</b>	12	0	69	0	0.98	0
	<b>Daily Min</b>						
	<b>Rolling 12 Month Avg</b>						
<b>QA/QC Information</b>	<b>LOD</b>		1.7		0.49	3	
	<b>LOQ</b>		5		1	10	
	<b>QC Exceedance</b>	N	N	N	N	N	
	<b>Lab Certification</b>		999580010		999580010	999580010	

Sample Point	001	001	101	101	101	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	
Parameter	112	280	211	457	342	
Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)	
Units	ug/L	ng/L	MGD	mg/L	mg/L	
Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB	
Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK	
Sample Results	Day 1		0.003427	4.5	4.1	
	2		0.006182	3.5		
	3		0.005493	3.0		
	4		0.008416	3.0		
	5		0.006909	<1.9		
	6		0.008076	3.0		
	7		0.007188	7.0	3.4	
	8		0.006050	3.0		
	9		0.001475	17.0		
	10					
	11			0.006310	4.5	
	12	10		0.007097	4.5	4.4
	13			0.026727	<1.9	3.7
	14			0.040983	4.5	
	15			0.032822	2.0	
	16			0.016080	2.0	
	17					
	18			0.030369	4.0	2.8
	19			0.034044	<1.9	2.8
	20			0.031876	<1.9	
	21			0.031261	2.0	
	22			0.017501	2.5	
	23			0.017349	3.5	
	24					
	25			0.037867	3.0	3.1
	26		1.2	0.037591	4.0	2.4
	27			0.030960	<1.9	
	28			0.029876	2.5	
	29					
	30					
	31					

	Sample Point	001	001	101	101	101		
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent		
	Parameter	112	280	211	457	342		
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)		
	Units	ug/L	ng/L	MGD	mg/L	mg/L		
<b>Summary Values</b>	Monthly Avg	10	1.2	0.01927716	3.32	3.3375		
	Monthly Total							
	Daily Max	10	1.2	0.040983	17	4.4		
	Daily Min	10	1.2	0.001475	<1.9	2.4		
	Rolling 12 Month Avg							
<b>Limit(s) in Effect</b>	Monthly Avg				31	0	26	0
	Monthly Total							
	Daily Max				60	0	52	0
	Daily Min							
	Rolling 12 Month Avg							
<b>QA/QC Information</b>	LOD	30	0.12				1.4	
	LOQ	100	0.39				6.1	
	QC Exceedance	N	N	N	N	N	N	
	Lab Certification		721026460		999580010	999580010		

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	87	133	315	553	155
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Cyanide, Total
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	GRAB
	<b>Frequency</b>	2/WEEK	MONTHLY	2/WEEK	2/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>	<0.49	<2.2	10	110	
	<b>3</b>					
	<b>4</b>					
	<b>5</b>	<0.49	<2.2	5.2	80	
	<b>6</b>					<3.0
	<b>7</b>					
	<b>8</b>	<0.49	<2.2	14	110	
	<b>9</b>					
	<b>10</b>					
	<b>11</b>	<0.49	<2.2	5.3	91	
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	<0.49	<2.2	9.4	73	
	<b>16</b>	<0.49	<2.2	8.9	80	
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>	<0.49	<2.2	3.5	60	
	<b>26</b>	<0.49	<2.2	2.7	63	
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					



	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	87		133		315		553		155	
	Description	Cadmium, Total Recoverable		Chromium, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Cyanide, Total	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0		0		7.375		83.375		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		14		110		<3	
	Daily Min	<0.49		<2.2		2.7		60		<3	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	0.49		2.2		1.5		3.6		3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	147	264	430	374	373
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	<b>Units</b>	ug/L	ug/L	ug/L	su	su
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>				6.6	7.2
	<b>2</b>	8.4	<1.3	<1.1	6.6	7.7
	<b>3</b>				6.0	7.7
	<b>4</b>				6.4	7.1
	<b>5</b>	5.6	<1.3	<1.1	6.4	7.0
	<b>6</b>				6.4	6.9
	<b>7</b>				6.6	6.9
	<b>8</b>				6.6	7.0
	<b>9</b>				6.8	6.9
	<b>10</b>					
	<b>11</b>				6.8	7.2
	<b>12</b>				6.8	7.6
	<b>13</b>				6.7	7.2
	<b>14</b>				6.5	7.2
	<b>15</b>				6.2	7.6
	<b>16</b>				6.8	9.0
	<b>17</b>					
	<b>18</b>				6.8	7.6
	<b>19</b>				6.6	7.3
	<b>20</b>				6.4	7.2
	<b>21</b>				6.1	7.0
	<b>22</b>				6.8	7.4
	<b>23</b>				6.7	7.4
	<b>24</b>					
	<b>25</b>				7.0	7.9
	<b>26</b>				6.5	7.4
	<b>27</b>				6.5	7.2
	<b>28</b>				6.6	7.4
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	147		264		430		374		373	
	Description	Copper, Total Recoverable		Lead, Total Recoverable		Silver, Total Recoverable		pH (Minimum)		pH (Maximum)	
	Units	ug/L		ug/L		ug/L		su		su	
<b>Summary Values</b>	Monthly Avg	7		0		0		6.568		7.36	
	Monthly Total										
	Daily Max	8.4		<1.3		<1.1		7		9	
	Daily Min	5.6		<1.3		<1.1		6		6.9	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg	2070	0	430	0	240	0				
	Monthly Total										
	Daily Max	3380	0	690	0	430	0			11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	1.7		1.3		1.1					
	LOQ	5		2.5		2.5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010					

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	379	376	507	40	490
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	<b>Units</b>	minutes	Number	ug/L	ug/L	ug/L
	<b>Sample Type</b>	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	<b>Sample Point</b>	101		101		101		101		101	
	<b>Description</b>	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	<b>Parameter</b>	379		376		507		40		490	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Total Toxic Organics		Benzene		Tetrachloroethylene	
	<b>Units</b>	minutes		Number		ug/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>										
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>	446	0	0	0						
	<b>Daily Max</b>					2130					
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>										
	<b>LOQ</b>										
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>										

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	500	561	200	508	285
	<b>Description</b>	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	500	561	200	508	285
	<b>Description</b>	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Rolling 12 Month Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Rolling 12 Month Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>					
	<b>LOQ</b>					
	<b>QC Exceedance</b>					
	<b>Lab Certification</b>					

Sample Point	101	106	106	106	107	
Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results	
Parameter	167	211	35	457	280	
Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable	
Units	ug/L	gpd	ug/L	mg/L	ng/L	
Sample Type	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB	
Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY	
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					<0.12
	27					
	28					
	29					
	30					
	31					



Sample Point	101	106	106	106	107
Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
Parameter	167	211	35	457	280
Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
Units	ug/L	gpd	ug/L	mg/L	ng/L
Summary Values	Monthly Avg				0
	Monthly Total				
	Daily Max				<0.12
	Daily Min				<0.12
	Rolling 12 Month Avg				
Limit(s) in Effect	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
	Rolling 12 Month Avg				
QA/QC Information	LOD				0.12
	LOQ				0.39
	QC Exceedance	N	N	N	N
	Lab Certification				721026460

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg
	<b>Parameter</b>	211	457	35	374	373
	<b>Description</b>	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
	<b>Units</b>	MGD	mg/L	ug/L	su	su
	<b>Sample Type</b>	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	WEEKLY	WEEKLY	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>	0.006968			6.8	7.1
	<b>3</b>					
	<b>4</b>	0.005260			6.0	8.8
	<b>5</b>	0.008543	<1.9	74	6.0	8.8
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>	0.014353			6.8	8.1
	<b>12</b>	0.007399	<1.9	69	7.1	7.6
	<b>13</b>	0.004975			6.8	6.9
	<b>14</b>	0.008432			7.2	7.9
	<b>15</b>	0.002807			6.8	7.9
	<b>16</b>					
	<b>17</b>					
	<b>18</b>	0.009061	<1.9	50	7.7	8.0
	<b>19</b>	0.004127			7.3	7.5
	<b>20</b>					
	<b>21</b>	0.007318			8.4	8.6
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>	0.007892	<1.9	62	7.7	8.1
	<b>26</b>	0.005003			7.4	7.8
	<b>27</b>	0.005224			7.3	7.8
	<b>28</b>	0.005007			7.3	8.2
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	<b>Sample Point</b>	003	003	003	003	003	
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	
	<b>Parameter</b>	211	457	35	374	373	
	<b>Description</b>	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)	
	<b>Units</b>	MGD	mg/L	ug/L	su	su	
<b>Summary Values</b>	<b>Monthly Avg</b>	0.0068246	0	63.75	7.106666667	7.94	
	<b>Monthly Total</b>						
	<b>Daily Max</b>	0.014353	<1.9	74	8.4	8.8	
	<b>Daily Min</b>	0.002807	<1.9	50	6	6.9	
	<b>Rolling 12 Month Avg</b>						
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>						
	<b>Monthly Total</b>						
	<b>Daily Max</b>			680	0	11	0
	<b>Daily Min</b>				4	0	
	<b>Rolling 12 Month Avg</b>						
<b>QA/QC Information</b>	<b>LOD</b>			2.1			
	<b>LOQ</b>			5			
	<b>QC Exceedance</b>	N	N	N	N	N	
	<b>Lab Certification</b>		999580010	999580010			

	<b>Sample Point</b>	003	003
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg
	<b>Parameter</b>	379	376
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	<b>Units</b>	minutes	Number
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>		
	<b>2</b>		
	<b>3</b>		
	<b>4</b>		
	<b>5</b>		
	<b>6</b>		
	<b>7</b>		
	<b>8</b>		
	<b>9</b>		
	<b>10</b>		
	<b>11</b>		
	<b>12</b>		
	<b>13</b>		
	<b>14</b>		
	<b>15</b>		
	<b>16</b>		
	<b>17</b>		
	<b>18</b>		
	<b>19</b>		
	<b>20</b>		
	<b>21</b>		
	<b>22</b>		
	<b>23</b>		
	<b>24</b>		
	<b>25</b>		
	<b>26</b>		
	<b>27</b>		
	<b>28</b>		
	<b>29</b>		
	<b>30</b>		
	<b>31</b>		

	<b>Sample Point</b>	003		003	
	<b>Description</b>	Future remedial action dischg		Future remedial action dischg	
	<b>Parameter</b>	379		376	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	<b>Units</b>	minutes		Number	
<b>Summary Values</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>				
	<b>Daily Max</b>				
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>	446	0		
	<b>Daily Max</b>			0	0
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>QA/QC Information</b>	<b>LOD</b>				
	<b>LOQ</b>				
	<b>QC Exceedance</b>	N		N	
	<b>Lab Certification</b>				

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

Laboratory Quality Control Comments



eReport Certify - TYCO FIRE PRODUCTS LP - 450473

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
417202  
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**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: TYCO FIRE PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 03/01/2019 - 03/31/2019  
 Form Due Date: 04/21/2019  
 Permit Number: 0001040

Date Received:  
 DOC: 417202  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

	Sample Point	001	703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	0.10318		57	6.6	6.9
	<b>2</b>	0.08400		50	6.8	7.1
	<b>3</b>	0.07464		43	6.8	7.1
	<b>4</b>	0.11308		50	6.7	7.0
	<b>5</b>	0.11197		49	6.7	7.0
	<b>6</b>	0.12937		51	6.9	7.1
	<b>7</b>	0.10797		49	6.9	7.1
	<b>8</b>	0.09782		49	7.1	7.3
	<b>9</b>	0.07668		66	7.2	7.5
	<b>10</b>	0.09521		65	7.2	7.9
	<b>11</b>	0.11931		50	7.0	7.2
	<b>12</b>	0.17258		52	7.1	7.3
	<b>13</b>	0.17003		48	7.1	7.5
	<b>14</b>	0.17545		50	6.9	7.3
	<b>15</b>	0.10680		47	7.0	7.2
	<b>16</b>	0.05168		50	7.1	7.4
	<b>17</b>	0.04527		50	7.0	7.5
	<b>18</b>	0.11550		53	7.0	7.3
	<b>19</b>	0.11911		56	6.9	7.0
	<b>20</b>	0.09727		55	6.7	6.9
	<b>21</b>	0.09704		55	6.7	6.8
	<b>22</b>	0.07412		72	6.7	6.9
	<b>23</b>	0.10047		54	6.7	7.2
	<b>24</b>	0.08687		51	6.8	7.1
	<b>25</b>	0.08344		55	6.6	6.8
	<b>26</b>	0.09610	1.7	56	6.6	7.6
	<b>27</b>	0.11725		58	7.4	7.6
	<b>28</b>	0.13214		56	7.5	7.6
	<b>29</b>	0.06499		54	7.6	8.2
	<b>30</b>	0.01543		53	7.8	8.3
	<b>31</b>	0.02810		53	7.8	8.2



	Sample Point	001	703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
<b>Summary Values</b>	<b>Monthly Avg</b>	0.098802258	1.7	53.451612903	6.996774194	7.319354839
	<b>Monthly Total</b>					
	<b>Daily Max</b>	0.17545	1.7	72	7.8	8.3
	<b>Daily Min</b>	0.01543	1.7	43	6.6	6.8
	<b>Rolling 12 Month Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Monthly Total</b>					
	<b>Daily Max</b>					11 0
	<b>Daily Min</b>				4 0	
	<b>Rolling 12 Month Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>		0.12			
	<b>LOQ</b>		0.39			
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>		721026460			

Sample Point	001	001	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	379	376	388	231	35	
Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable	
Units	minutes	Number	mg/L	mg/L	ug/L	
Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP	
Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY	
Sample Results	Day 1					
	2					
	3					
	4			0.096		14
	5					
	6					
	7					
	8					
	9					
	10					
	11			0.21	190	12
	12					
	13					
	14					
	15					
	16					
	17					
	18			0.16	330	35
	19					
	20					
	21					
	22					
	23					
	24					
	25			0.073	270	46
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	379		376		388		231		35	
	Description	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Phosphorus, Total		Hardness, Total as CaCO3		Arsenic, Total Recoverable	
	Units	minutes		Number		mg/L		mg/L		ug/L	
<b>Summary Values</b>	Monthly Avg					0.13475		263.333333333		26.75	
	Monthly Total										
	Daily Max					0.21		330		46	
	Daily Min					0.073		190		12	
	Rolling 12 Month Avg					0.2					
<b>Limit(s) in Effect</b>	Monthly Avg										
	Monthly Total	446	0								
	Daily Max			0	0					680	0
	Daily Min										
	Rolling 12 Month Avg					1	0				
<b>QA/QC Information</b>	LOD					0.024				2.1	
	LOQ					0.05				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					999580010		999580010		999580010	

Sample Point	001	001	001	001	001	
Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
Parameter	35	147	147	87	152	
Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable	
Units	lbs/day	ug/L	lbs/day	ug/L	ug/L	
Sample Type	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	
Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	
Sample Results	Day 1					
	2					
	3					
	4	0.001316	10	0.0094	0.54	<3.0
	5					
	6					
	7					
	8					
	9					
	10					
	11	0.01188	12	0.01188	<0.49	
	12					
	13					
	14					
	15					
	16					
	17					
	18	0.0336	8.4	0.008064	0.66	
	19					
	20					
	21					
	22					
	23					
	24					
	25	0.0322	16	0.0112	<0.49	
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	35		147		147		87		152	
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Cadmium, Total Recoverable		Cyanide, Amenable	
	Units	lbs/day		ug/L		lbs/day		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0.019749		11.6		0.010136		0.3		0	
	Monthly Total										
	Daily Max	0.0336		16		0.01188		0.66		<3	
	Daily Min	0.001316		8.4		0.008064		<0.49		<3	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg										
	Monthly Total										
	Daily Max	12	0	69	0	0.98	0				
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD			1.7				0.49		3	
	LOQ			5				1		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			999580010				999580010		999580010	

	Sample Point	001	001	101	101	101
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	Units	ug/L	ng/L	MGD	mg/L	mg/L
	Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK
Sample Results	Day 1			0.02029	2.5	
	2			0.01069	<1.9	
	3					
	4			0.03567	2.0	<1.5
	5			0.02398	2.0	2.0
	6			0.03208	4.5	
	7			0.02707	7.5	
	8			0.01819	<1.9	3.5
	9			0.00255	3.0	
	10					
	11			0.02497	<1.9	4.9
	12			0.02395	2.0	
	13			0.01723	<1.9	
	14			0.07986	2.0	
	15			0.01153	3.0	<1.5
	16			0.00725	9.5	
	17					
	18	10		0.02284	4.0	1.9
	19			0.03469	3.5	
	20			0.02855	7.0	
	21			0.02716	5.0	
	22			0.02206	4.0	
	23			0.01170	4.0	
	24					
	25			0.02502	4.0	<1.4
	26		12	0.01947	3.5	2.1
	27			0.02395	2.5	
	28			0.02340	<1.9	
	29			0.01296	2.5	
	30					
	31					

	Sample Point	001		001		101		101		101	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	112		280		211		457		342	
	Description	Chlorine, Total Residual		Mercury, Total Recoverable		Flow Rate		Suspended Solids, Total		Oil & Grease (Freon)	
	Units	ug/L		ng/L		MGD		mg/L		mg/L	
<b>Summary Values</b>	Monthly Avg	10		12		0.0234844		3.12		1.8	
	Monthly Total										
	Daily Max	10		12		0.07986		9.5		4.9	
	Daily Min	10		12		0.00255		<1.9		<1.4	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg							31	0	26	0
	Monthly Total										
	Daily Max							60	0	52	0
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	30		0.12						1.4	
	LOQ	100		0.39						6	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			721026460				999580010		999580010	

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	87	133	315	553	155
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Cyanide, Total
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	GRAB
	<b>Frequency</b>	2/WEEK	MONTHLY	2/WEEK	2/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	<0.49	<2.2	7.9	55	<3.0
	<b>2</b>	0.57	<2.2	8.1	74	
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	<0.49	<2.2	21	77	
	<b>9</b>	<0.49	<2.2	29	360	
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	0.72	<2.2	34	270	
	<b>16</b>					
	<b>17</b>					
	<b>18</b>	0.56	<2.2	46	1600	
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>	<0.49	<2.2	6.2	37	
	<b>23</b>	<0.49	<2.2	2.0	33	
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					



	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	87		133		315		553		155	
	Description	Cadmium, Total Recoverable		Chromium, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Cyanide, Total	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0.23125		0		19.275		313.25		0	
	Monthly Total										
	Daily Max	0.72		<2.2		46		1600		<3	
	Daily Min	<0.49		<2.2		2		33		<3	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	0.49		2.2		1.5		3.6		3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	264	430	374	373
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	ug/L	ug/L	ug/L	su	su
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	6.1	<1.3	<1.1	6.6	7.8
	2	12.0	<1.3	<1.1	6.5	7.3
	3					
	4				6.5	7.4
	5				6.4	7.2
	6				6.6	7.8
	7				6.5	8.6
	8	6.8	<1.3	<1.1	7.0	7.4
	9	6.6	<1.3	<1.1	7.4	7.6
	10					
	11				6.7	7.7
	12				7.0	7.6
	13				6.9	7.6
	14				6.6	7.6
	15	8.3	<1.3	<1.1	7.0	8.0
	16				6.8	8.0
	17					
	18	<1.7	2.3	<1.1	6.5	7.8
	19				6.3	7.7
	20				6.3	8.1
	21				6.5	7.7
	22	8.6	<1.3	<1.1	6.8	8.0
	23	4.0	<1.3	<1.1	6.5	7.2
	24					
	25				6.4	7.2
	26				6.6	8.1
	27				6.0	7.2
	28				6.0	6.8
	29				6.0	7.0
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	147		264		430		374		373	
	Description	Copper, Total Recoverable		Lead, Total Recoverable		Silver, Total Recoverable		pH (Minimum)		pH (Maximum)	
	Units	ug/L		ug/L		ug/L		su		su	
<b>Summary Values</b>	Monthly Avg	6.55		0.2875		0		6.576		7.616	
	Monthly Total										
	Daily Max	12		2.3		<1.1		7.4		8.6	
	Daily Min	<1.7		<1.3		<1.1		6		6.8	
	Rolling 12 Month Avg										
<b>Limit(s) in Effect</b>	Monthly Avg	2070	0	430	0	240	0				
	Monthly Total										
	Daily Max	3380	0	690	0	430	0			11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
<b>QA/QC Information</b>	LOD	1.7		1.3		1.1					
	LOQ	5		2.5		2.5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010					

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	379	376	507	40	490
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	<b>Units</b>	minutes	Number	ug/L	ug/L	ug/L
	<b>Sample Type</b>	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	<b>Sample Point</b>	101		101		101		101		101	
	<b>Description</b>	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	<b>Parameter</b>	379		376		507		40		490	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Total Toxic Organics		Benzene		Tetrachloroethylene	
	<b>Units</b>	minutes		Number		ug/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>										
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>										
	<b>Monthly Total</b>	446	0	0	0						
	<b>Daily Max</b>					2130					
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>										
	<b>LOQ</b>										
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>										

	<b>Sample Point</b>	101	101	101	101	101
	<b>Description</b>	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	500	561	200	508	285
	<b>Description</b>	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
<b>QA/QC Information</b>	LOD					
	LOQ					
	QC Exceedance					
	Lab Certification					

	<b>Sample Point</b>	101	106	106	106	107
	<b>Description</b>	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
	<b>Parameter</b>	167	211	35	457	280
	<b>Description</b>	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	<b>Units</b>	ug/L	gpd	ug/L	mg/L	ng/L
	<b>Sample Type</b>	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB
	<b>Frequency</b>	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

<0.12



	Sample Point	101	106	106	106	107
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
	Parameter	167	211	35	457	280
	Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
<b>Summary Values</b>	Monthly Avg					0
	Monthly Total					
	Daily Max					<0.12
	Daily Min					<0.12
	Rolling 12 Month Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
<b>QA/QC Information</b>	LOD					0.12
	LOQ					0.39
	QC Exceedance	N	N	N	N	N
	Lab Certification					721026460

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg
	<b>Parameter</b>	211	457	35	374	373
	<b>Description</b>	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
	<b>Units</b>	MGD	mg/L	ug/L	su	su
	<b>Sample Type</b>	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	WEEKLY	WEEKLY	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>	0.013599	<1.9	47	6.7	7.3
	<b>5</b>	0.002572			7.2	7.3
	<b>6</b>	0.007539			7.2	8.6
	<b>7</b>	0.002551			8.2	8.4
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>	0.012747	<1.9	31	7.0	8.2
	<b>12</b>	0.000642			7.4	8.5
	<b>13</b>	0.006464			8.3	8.5
	<b>14</b>					
	<b>15</b>	0.005288			8.3	8.5
	<b>16</b>					
	<b>17</b>					
	<b>18</b>	0.009508			8.5	8.7
	<b>19</b>	0.005196			7.3	8.9
	<b>20</b>					
	<b>21</b>					
	<b>22</b>	0.004074			6.8	8.7
	<b>23</b>	0.003892			8.0	8.2
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	Sample Point	003		003		003		003	
	Description	Future remedial action dischg		Future remedial action dischg		Future remedial action dischg		Future remedial action dischg	
	Parameter	211		457		35		374	
	Description	Flow Rate		Suspended Solids, Total		Arsenic, Total Recoverable		pH (Minimum)	
	Units	MGD		mg/L		ug/L		su	
<b>Summary Values</b>	Monthly Avg	0.006172667		0		39		7.575	
	Monthly Total								
	Daily Max	0.013599		<1.9		47		8.5	
	Daily Min	0.000642		<1.9		31		6.7	
	Rolling 12 Month Avg								
<b>Limit(s) in Effect</b>	Monthly Avg								
	Monthly Total								
	Daily Max					680	0		11 0
	Daily Min							4 0	
	Rolling 12 Month Avg								
<b>QA/QC Information</b>	LOD					2.1			
	LOQ					5			
	QC Exceedance	N		N		N		N	
	Lab Certification			999580010		999580010			

	<b>Sample Point</b>	003	003
	<b>Description</b>	Future remedial action dischg	Future remedial action dischg
	<b>Parameter</b>	379	376
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	<b>Units</b>	minutes	Number
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>		
	<b>2</b>		
	<b>3</b>		
	<b>4</b>		
	<b>5</b>		
	<b>6</b>		
	<b>7</b>		
	<b>8</b>		
	<b>9</b>		
	<b>10</b>		
	<b>11</b>		
	<b>12</b>		
	<b>13</b>		
	<b>14</b>		
	<b>15</b>		
	<b>16</b>		
	<b>17</b>		
	<b>18</b>		
	<b>19</b>		
	<b>20</b>		
	<b>21</b>		
	<b>22</b>		
	<b>23</b>		
	<b>24</b>		
	<b>25</b>		
	<b>26</b>		
	<b>27</b>		
	<b>28</b>		
	<b>29</b>		
	<b>30</b>		
	<b>31</b>		

	<b>Sample Point</b>	003		003	
	<b>Description</b>	Future remedial action dischg		Future remedial action dischg	
	<b>Parameter</b>	379		376	
	<b>Description</b>	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	<b>Units</b>	minutes		Number	
<b>Summary Values</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>				
	<b>Daily Max</b>				
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>				
	<b>Monthly Total</b>	446	0		
	<b>Daily Max</b>			0	0
	<b>Daily Min</b>				
	<b>Rolling 12 Month Avg</b>				
<b>QA/QC Information</b>	<b>LOD</b>				
	<b>LOQ</b>				
	<b>QC Exceedance</b>	N		N	
	<b>Lab Certification</b>				

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

For OF003 there was no sampling done on the third and fourth weeks because the system did not stay running for a full 24 hour sample period.

Laboratory Quality Control Comments