

January 15, 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 (October through December 2018)  
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 October 1, 2018 through December 31, 2018, 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 fourth quarter of 2018. A summary of the operational data is included as Attachment 1. The Discharge Monitoring Reports (DMRs) are included in Attachment 2.

Pump down operations continued in the former Salt Vault and 8<sup>th</sup> Street Slip area through November 5, 2018 as which time the remaining recovered groundwater was transported from the site and the system temporarily decommissioned/disassembled for the winter period. Details of the pump down operations for 2018 were reported to the agencies in the "Bi-Weekly Summary Report", dated November 14, 2018.

The 2018 Fall Vertical Barrier Wall Inspection was performed on October 25, 2018. During the week of October 29, 2018, MJB Industries completed corrective actions based on the findings of the fall inspection. A total of 16 waler system bolts were tightened and marine caulk placed around the bolt and bolt plate to stop the seepage from the areas.

## **Additional Activities**

A meeting was held on October 22, 2018 at the USEPA Region 5 office in Chicago to discuss the WPDES Variance, PDP status, and Dye Testing Alternatives among other project status items.

## **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 September 2018 through November 2018 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 pump down program. This information, through November 2018, was included in the annual report.

Groundwater elevation data recorded by installed transducers was downloaded on the week of October 17, 2018. Evaluation of the data was included in the annual report. Transducers collect data hourly. The site-wide data was provided in the annual report.

## **Problems Encountered**

The GWCTS systems experienced continued problems with excessive fouling in the VSEP units which had difficulty being remedied through normal cleaning procedures. This resulted in continuous downtime during this quarter. A piping modification was made to allow Tyco to run the system without the VSEP process which results in higher rate of waste generation without sacrificing water quality until a shakedown of the VSEP is performed by the manufacture or a qualified consultant. Troubleshooting is planned to continue in quarter 1 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 transducer data download.
- Conduct pump down programs interim shutdown water level monitoring.
- Submit enhanced monitoring well network work plan.
- Submit porewater sampling plan.
- Submit Response to Comments on WPDES Variance Request.

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## List of Key Correspondence and Document Submittals

**Table 1**

Documents Submitted

*Quarterly Progress Report (October through December 2018), Tyco Fire Products LP Facility, Marinette, Wisconsin*

<b>Description of Submittal</b>	<b>Submitted To</b>	<b>Date Submitted</b>
Quarterly Progress Report	USEPA	October 15, 2018
PDP Summary Report	USEPA	November 14, 2018
Response to Comments on Cost Estimate	USEPA	December 7, 2018
2018-2027 Cost Estimate	USEPA	December 12, 2018
Surety Bond Issuance	USEPA	December 19, 2018
5 Year Technical Review	USEPA	December 28, 2018
Boring Logs Resubmittal	USEPA	December 29, 2018

**Table 2**

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

<b>Description of Correspondence</b>	<b>Received From</b>	<b>Date Received</b>
Comments to Draft Cost Estimate	USEPA	December 3, 2018

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

Respectfully Yours,

Tyco Fire Products LP



Ryan Suennen

Environmental Supervisor

### 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  
Muriel Carter, Stephenson Public Library  
Document Control No.: 20190115 US10.11014



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

MEMORANDUM

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## Groundwater Collection and Treatment System Operation

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

DATE: January 13, 2018

Operation of the groundwater collection and treatment system (GWCTS) occurring from October 1, 2017 through December 31, 2017 is summarized below:

- The GWCTS operated for 0 days in October, 0 days in November, and 7 days in December, for a total of 7 days.
- Approximately 18,900 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 not available from NOAA due to the Government Shutdown.  
(<https://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail>).
- An estimated total of 52,867 gallons was discharged to the Menominee River as effluent under WPDES permit.
- An estimated total of 42,700 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 Q4 2018 (10/01/2017- 12/31/2017)
EW-1	899
EW-2	0
EW-3	0
EW-4	30
EW-5	21,439
EW-6	20,007
EW-7	325
Total	42,700

**Attachment 2**  
**DMRs**





eReport Submit - TYCO FIRE PRODUCTS LP - 437897

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018

Finalize Submit
Goto List

Once this file has been submitted, it will no longer be editable. Click 'Finalize Submit' button to continue.

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



eReport Certify - TYCO FIRE PRODUCTS LP - 437897

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Certification complete.

The Official Internet site for the Wisconsin Department of Natural Resources

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Facility Name  
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Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Without leaving THIS page, check E-Mail address for message containing Certification code. Enter code and click 'Certify' button to complete Submittal.

Submittal of this form is required by section 283.55, Wis. Stats., and chapters NR 205 and NR 214 or NR 204, Wis. Admin. Code.

Personally identifiable information collected on this form may be used for purposes other than that for which it was originally collected. Under Wisconsin's open records laws, DNR is required to provide all non-confidential information to any person who requests it. Such information may be provided to the public in written or electronic form. Information reported may be made available to the public via a DNR web page.

I certify under penalty of law that this form submitted to DNR on 10/9/2018 for the period 9/1/2018 to 9/30/2018 and identified by the DOC ID number listed above was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted 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.

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

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 09/01/2018 - 09/30/2018  
 Form Due Date: 10/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 406456  
 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	<b>Day 1</b>	0.02217		81	7.3	7.8
	<b>2</b>	0.00201		82	7.7	7.9
	<b>3</b>	0.20414		81	6.6	7.9
	<b>4</b>	0.20734		77	6.7	7.0
	<b>5</b>	0.20168		76	6.4	6.9
	<b>6</b>	0.14941		76	6.7	6.9
	<b>7</b>	0.12124		94	6.8	7.0
	<b>8</b>	0.00468		76	7.0	7.6
	<b>9</b>	0.04777		79	7.2	8.0
	<b>10</b>	0.13730		77	7.0	7.6
	<b>11</b>	0.12992		78	7.0	7.6
	<b>12</b>	0.14199		78	6.9	7.5
	<b>13</b>	0.12660		78	6.8	7.1
	<b>14</b>	0.11252		78	6.8	7.4
	<b>15</b>	0.07329		77	6.7	7.5
	<b>16</b>	0.04728		81	6.8	8.0
	<b>17</b>	0.12988		79	6.7	7.4
	<b>18</b>	0.13703	1.6	77	7.0	7.4
	<b>19</b>	0.12464		77	6.4	7.2
	<b>20</b>	0.10017		77	6.2	6.6
	<b>21</b>	0.00692		74	6.4	7.2
	<b>22</b>	0.00168		77	7.2	7.4
	<b>23</b>	0.01551		78	6.8	7.7
	<b>24</b>	0.12439		76	6.6	7.2
	<b>25</b>	0.14119		77	6.8	7.2
	<b>26</b>	0.13172		75	6.6	6.8
	<b>27</b>	0.13683		74	6.4	7.0
	<b>28</b>	0.08972		74	6.7	7.3
	<b>29</b>	0.00168		70	6.8	7.7
	<b>30</b>	0.04995		71	6.7	7.6
	<b>31</b>					

	Sample ID	001		100		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>	0.097355		1.6	77.5		6.79		7.38
	<b>Monthly Total</b>								
	<b>Daily Max</b>	0.20734		1.6	94		7.7		8
	<b>Daily Min</b>	0.00168		1.6	70		6.2		6.6
	<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>			0.2					
	<b>LOQ</b>			0.5					
	<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			0.20		50
	5					
	6					
	7					
	8					
	9					
	10			0.16	260	44
	11					
	12					
	13					
	14					
	15					
	16					
	17			0.12	310	39
	18					
	19					
	20					
	21					
	22					
	23					
	24			0.13	270	37
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample 1 Date	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			0.1525	280	42.5
	Monthly Total					
	Daily Max			0.2	310	50
	Daily Min			0.12	260	37
	Rolling 12 Month Avg			0.2		
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total	446	0			
	Daily Max		0	0		680
	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

	<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>	0.0865	22	0.03806	0.78	<3.0
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>	0.05016	13	0.01482	<0.49	
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>	0.04446	14	0.01596	<0.49	
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>	0.03848	28	0.02912	1.0	
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					



Sample ID	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	0.0549		19.25		0.02449		0.445		0	
	Monthly Total										
	Daily Max	0.0865		28		0.03806		1		<3	
	Daily Min	0.03848		13		0.01482		<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					
	2					
	3			0.007519	7.5	
	4			0.035345	1.9	1.9
	5			0.035128	1.5	<1.4
	6			0.036443	4.5	
	7			0.018977	3.0	
	8					
	9					
	10			0.030579	11.0	1.9
	11			0.033210	1.9	2.1
	12			0.029132	1.9	
	13			0.027799	5.5	
	14			0.010973	14.0	
	15			0.010951	9.5	
	16					
	17			0.025466	2.5	1.9
	18		3.4	0.020901	3.0	1.8
	19			0.023137	2.0	
	20			0.023966	2.5	
	21			0.007787	4.0	
	22					
	23					
	24	20		0.023177	1.9	1.5
	25			0.030445	1.9	1.7
	26			0.033362	3.0	
	27			0.021741	2.0	
	28			0.006467	4.0	
	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>	<b>Monthly Avg</b>	20	3.4	0.023452619	4.238095238	1.6				
	<b>Monthly Total</b>									
	<b>Daily Max</b>	20	3.4	0.036443	14	2.1				
	<b>Daily Min</b>	20	3.4	0.006467	1.5	<1.4				
	<b>Rolling 12 Month Avg</b>									
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>				31	0	26	0		
	<b>Monthly Total</b>									
	<b>Daily Max</b>				60	0	52	0		
	<b>Daily Min</b>									
	<b>Rolling 12 Month Avg</b>									
<b>QA/QC Information</b>	<b>LOD</b>	30	0.2				1.4			
	<b>LOQ</b>	100	0.5				5.4			
	<b>QC Exceedance</b>	N	N	N	N	N	N			
	<b>Lab Certification</b>		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>					
	<b>3</b>					
	<b>4</b>	0.93	6.8	1300	330	<3.0
	<b>5</b>	0.74	36	1700	330	
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>	<0.49	3.1	400	270	
	<b>11</b>	<0.49	<2.2	170	170	
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>	0.51	4.2	260	480	
	<b>18</b>	<0.49	<2.2	100	320	
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>	2.8	5.0	380	320	
	<b>25</b>	0.87	<2.2	210	140	
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	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>	<b>Monthly Avg</b>	0.73125		6.8875		565		295		0	
	<b>Monthly Total</b>										
	<b>Daily Max</b>	2.8		36		1700		480		<3	
	<b>Daily Min</b>	<0.49		<2.2		100		140		<3	
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	260	0	1710	0	2380	0	1480	0	650	0
	<b>Monthly Total</b>										
	<b>Daily Max</b>	690	0	2770	0	3980	0	2610	0	1200	0
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>	0.49		2.2		1.5		3.6		3	
	<b>LOQ</b>	1		5		5		10		10	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	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	2WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1					
	2					
	3				7.5	7.5
	4	26	<1.3	<1.1	7.3	7.8
	5	28	<1.3	<1.1	7.7	7.8
	6				7.2	7.8
	7				7.1	7.4
	8					
	9					
	10	17	<1.3	<1.1	7.7	8.1
	11	12	<1.3	<1.1	7.5	7.8
	12				7.4	7.5
	13				7.0	7.8
	14				7.0	8.0
	15				7.7	7.9
	16					
	17	19	1.9	<1.1	7.4	7.6
	18	5.3	3.1	<1.1	6.9	7.8
	19				7.3	7.7
	20				7.5	7.9
	21				7.1	7.5
	22					
	23					
	24	39	<1.3	<1.1	7.6	7.9
	25	14	<1.3	<1.1	7.6	7.8
	26				7.3	7.7
	27				7.2	7.5
	28				7.2	7.4
	29					
	30					
	31					

	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
		147		264		430		374		373	
		Copper, Total Recoverable		Lead, Total Recoverable		Silver, Total Recoverable		pH (Minimum)		pH (Maximum)	
		ug/L		ug/L		ug/L		su		su	
<b>Summary Values</b>	<b>Monthly Avg</b>	20.0375		0.625		0		7.342857143		7.723809524	
	<b>Monthly Total</b>										
	<b>Daily Max</b>	39		3.1		<1.1		7.7		8.1	
	<b>Daily Min</b>	5.3		<1.3		<1.1		6.9		7.4	
	<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					



	Sample Point	101		101		101		101				
		Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent			
		Parameter	379		376		507		40		490	
		Description	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Total Toxic Organics		Benzene		Tetrachloroethylene	
Units	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 Type	TS1	TS1	TS1	TS1	TS1
	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>	<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>					

	<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					<0.20
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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>	<b>Monthly Avg</b>					0
	<b>Monthly Total</b>					
	<b>Daily Max</b>					<0.2
	<b>Daily Min</b>					<0.2
	<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>					0.2
	<b>LOQ</b>					0.5
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>					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>					
	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 Type	000	000	000	000	000
	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>	<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>			680		11
	<b>Daily Min</b>				4	
	<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>	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>		



	Sample 1 Unit	300	
	Description	Future remedial action dischg	Future remedial action dischg
	Parameter	379	376
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	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	
	<b>Daily Max</b>		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

The Groundwater system was not running for the whole month of September so, there will be no results for any sampling at OF003.

Laboratory Quality Control Comments

**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: 10/01/2018 - 10/31/2018  
 Form Due Date: 11/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 413432  
 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	<b>Day 1</b>	0.20904		72	6.2	6.6
	<b>2</b>	0.22134		73	6.6	7.0
	<b>3</b>	0.24438		74	6.7	7.2
	<b>4</b>	0.12420		91	7.0	7.3
	<b>5</b>	0.07752		69	7.0	7.1
	<b>6</b>	0.00391		71	7.3	7.8
	<b>7</b>	0.14075		69	7.2	7.8
	<b>8</b>	0.25648		69	6.6	7.3
	<b>9</b>	0.29062		70	7.0	8.0
	<b>10</b>	0.26162		68	7.2	7.6
	<b>11</b>	0.14293		70	7.4	7.7
	<b>12</b>	0.07907		84	7.5	7.9
	<b>13</b>	0.00460		68	7.9	8.0
	<b>14</b>	0.08550		69	7.5	8.0
	<b>15</b>	0.13706		68	7.3	7.7
	<b>16</b>	0.12349	3.7	70	7.1	8.3
	<b>17</b>	0.13739		67	7.3	8.3
	<b>18</b>	0.14774		69	7.2	8.4
	<b>19</b>	0.09397		67	7.2	7.8
	<b>20</b>	0.01639		65	7.4	7.9
	<b>21</b>	0.04674		64	7.7	8.8
	<b>22</b>	0.13772		65	7.3	7.8
	<b>23</b>	0.13326		66	7.2	7.6
	<b>24</b>	0.13129		66	7.3	7.9
	<b>25</b>	0.11261		64	7.0	8.7
	<b>26</b>	0.11256		64	7.1	8.4
	<b>27</b>	0.09204		63	7.4	7.6
	<b>28</b>	0.10850		58	7.2	7.7
	<b>29</b>	0.10353		65	7.2	7.8
	<b>30</b>	0.11658		65	7.2	7.5
	<b>31</b>	0.12857		80	7.2	8.3

	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	0.129722581	3.7	69.129032258	7.174193548	7.8
	Monthly Total					
	Daily Max	0.29062	3.7	91	7.9	8.8
	Daily Min	0.00391	3.7	58	6.2	6.6
	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		0.2			
	LOQ		0.5			
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460			

	<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>	379	376	388	231	35
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable
	<b>Units</b>	minutes	Number	mg/L	mg/L	ug/L
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>			0.15	210	35
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>			0.14	150	37
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>			0.15	300	17
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>			0.11	220	46
	<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	001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	379		376		388		231	
	Description	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Phosphorus, Total		Hardness, Total as CaCO3	
	Units	minutes		Number		mg/L		mg/L	
<b>Summary Values</b>	Monthly Avg					0.1375		220	
	Monthly Total								
	Daily Max					0.15		300	
	Daily Min					0.11		150	
	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	
	Lab Certification					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>	0.0609	18	0.03132	0.80	<3.0
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	0.07918	11	0.02354	0.56	
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	0.0513	17	0.0138	<0.49	
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>	0.05106	17	0.01887	<0.49	
	<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	001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	35		147		147		87	
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Cadmium, Total Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L	
<b>Summary Values</b>	Monthly Avg	0.06061		15.75		0.0218825		0.34	
	Monthly Total								
	Daily Max	0.07918		18		0.03132		0.8	
	Daily Min	0.05106		11		0.0138		<0.49	
	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	
	LOQ			5				1	
	QC Exceedance	N		N		N		N	
	Lab Certification			999580010				999580010	



	<b>Sample Point</b>	001	001	101	101	101	
	<b>Description</b>	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	
	<b>Parameter</b>	112	280	211	457	342	
	<b>Description</b>	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)	
	<b>Units</b>	ug/L	ng/L	MGD	mg/L	mg/L	
	<b>Sample Type</b>	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB	
	<b>Frequency</b>	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK	
<b>Sample Results</b>	<b>Day 1</b>			0.026750	2.5	2.4	
	<b>2</b>			0.019663	4.0	2.7	
	<b>3</b>			0.019754	<1.9		
	<b>4</b>			0.017168	<1.9		
	<b>5</b>			0.013550	<1.9		
	<b>6</b>						
	<b>7</b>						
	<b>8</b>	30			0.021405	3.0	2.8
	<b>9</b>				0.011495	5.0	2.6
	<b>10</b>				0.012052	3.0	
	<b>11</b>				0.020949	<1.9	
	<b>12</b>				0.020749	<1.9	
	<b>13</b>						
	<b>14</b>						
	<b>15</b>				0.018654	<1.9	2.2
	<b>16</b>			10.0	0.017053	2.0	2.4
	<b>17</b>				0.005177	7.0	
	<b>18</b>				0.019884	2.0	
	<b>19</b>				0.017651	<1.9	
	<b>20</b>						
	<b>21</b>						
	<b>22</b>				0.014823	2.5	3.9
	<b>23</b>				0.012500	3.0	2.9
	<b>24</b>				0.011748	2.5	
	<b>25</b>				0.007166	5.0	
	<b>26</b>				0.007099	6.5	
	<b>27</b>				0.006608	4.5	
	<b>28</b>				0.001305	4.5	
	<b>29</b>				0.016040	4.5	
	<b>30</b>				0.009608	3.5	
	<b>31</b>				0.020320	2.0	

	Sample Point	001		001		101		101		
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		Metal Finishing Effluent		Metal Finishing Effluent		
	Parameter	112		280		211		457		
	Description	Chlorine, Total Residual		Mercury, Total Recoverable		Flow Rate		Suspended Solids, Total		
	Units	ug/L		ng/L		MGD		mg/L		
<b>Summary Values</b>	Monthly Avg	30		10		0.01476684		2.68		
	Monthly Total									
	Daily Max	30		10		0.02675		7		
	Daily Min	30		10		0.001305		<1.9		
	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		0.2				1.4		
	LOQ	100		0.5				5.4		
	QC Exceedance	N		N		N		N		
	Lab Certification			721026460				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>	0.94	4.4	990	270	<3.0
	<b>2</b>	0.52	<2.2	66	77	
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	0.75	7.0	870	300	
	<b>9</b>	0.91	11	930	470	
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	<0.49	<2.2	50	75	
	<b>16</b>	<0.49	<2.2	52	68	
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>	<0.49	2.3	32	89	
	<b>23</b>	<0.49	<2.2	46	160	
	<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>	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>Summary Values</b>	<b>Monthly Avg</b>	0.39		3.0875		379.5		188.625		0	
	<b>Monthly Total</b>										
	<b>Daily Max</b>	0.94		11		990		470		<3	
	<b>Daily Min</b>	<0.49		<2.2		32		68		<3	
	<b>Rolling 12 Month Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	260	0	1710	0	2380	0	1480	0	650	0
	<b>Monthly Total</b>										
	<b>Daily Max</b>	690	0	2770	0	3980	0	2610	0	1200	0
	<b>Daily Min</b>										
	<b>Rolling 12 Month Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>	0.49		2.2		1.5		3.6		3	
	<b>LOQ</b>	1		5		5		10		10	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	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>	24	<1.3	<1.1	7.5	7.9
	<b>2</b>	9.3	<1.3	<1.1	7.3	7.6
	<b>3</b>				7.0	8.2
	<b>4</b>				7.0	7.6
	<b>5</b>				7.2	7.6
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	17	<1.3	<1.1	7.4	7.7
	<b>9</b>	17	<1.3	<1.1	7.2	7.7
	<b>10</b>				7.1	7.7
	<b>11</b>				7.2	8.4
	<b>12</b>				7.9	8.7
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	11	<1.3	<1.1	6.9	7.6
	<b>16</b>	17	<1.3	<1.1	6.7	7.2
	<b>17</b>				6.3	7.5
	<b>18</b>				6.6	7.5
	<b>19</b>				7.2	8.2
	<b>20</b>				6.6	8.0
	<b>21</b>					
	<b>22</b>	18	<1.3	<1.1	6.6	8.0
	<b>23</b>	15	<1.3	<1.1	6.5	8.0
	<b>24</b>				6.6	8.3
	<b>25</b>				6.4	8.4
	<b>26</b>				6.9	8.2
	<b>27</b>				7.0	8.0
	<b>28</b>				7.0	7.1
	<b>29</b>				7.2	8.1
	<b>30</b>				6.8	8.0
	<b>31</b>				7.3	7.9

	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	16.0375		0		0		6.976923077		7.888461538	
	Monthly Total										
	Daily Max	24		<1.3		<1.1		7.9		8.7	
	Daily Min	9.3		<1.3		<1.1		6.3		7.1	
	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	0.49		1.3		1.1					
	LOQ	1		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>					
	<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>	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>					

	<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>					
	<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>					0.27
	<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>					

	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>	<b>Monthly Avg</b>					0.27
	<b>Monthly Total</b>					
	<b>Daily Max</b>					0.27
	<b>Daily Min</b>					0.27
	<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>					0.2
	<b>LOQ</b>					0.5
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>					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>					
	<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>					

	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					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total					
	Daily Max			680		11
	Daily Min				4	
	Rolling 12 Month Avg					
<b>QA/QC Information</b>	LOD					
	LOQ					
	QC Exceedance					
	Lab Certification					

	<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			
	<b>Daily Max</b>			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

There was no sampling for outfall OF003 because the system has been down all month for Maintenance issues.

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 11/19/2018 2:26:56 PM

**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: 11/01/2018 - 11/30/2018  
 Form Due Date: 12/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 413433  
 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	<b>Day 1</b>	0.12660		68	7.2	7.8
	<b>2</b>	0.11499		65	7.1	7.8
	<b>3</b>	0.05433		63	7.5	8.1
	<b>4</b>	0.12033		55	7.0	8.1
	<b>5</b>	0.12793		63	7.1	7.6
	<b>6</b>	0.15369		62	6.2	7.3
	<b>7</b>	0.12864		63	7.2	7.5
	<b>8</b>	0.11725		63	7.2	7.4
	<b>9</b>	0.11263		64	7.1	7.4
	<b>10</b>	0.09814		59	7.2	7.5
	<b>11</b>	0.19853		58	7.4	7.4
	<b>12</b>	0.12237		60	7.0	7.5
	<b>13</b>	0.12230		59	7.0	7.4
	<b>14</b>	0.12468		59	7.0	7.3
	<b>15</b>	0.12262		62	7.0	7.3
	<b>16</b>	0.06947		61	6.9	7.4
	<b>17</b>	0.0		57	7.4	7.7
	<b>18</b>	0.00530		58	7.5	7.8
	<b>19</b>	0.11829		58	7.0	7.5
	<b>20</b>	0.11729		62	6.8	7.1
	<b>21</b>	0.10466		57	6.7	7.5
	<b>22</b>	0.09987		55	7.5	7.7
	<b>23</b>	0.03874		57	7.3	7.9
	<b>24</b>	0.01918		57	7.0	7.3
	<b>25</b>	0.04085		57	7.2	7.6
	<b>26</b>	0.12435	3.4	56	6.9	7.2
	<b>27</b>	0.12789		57	6.8	7.3
	<b>28</b>	0.13045		57	7.0	7.4
	<b>29</b>	0.14483		57	7.0	7.2
	<b>30</b>	0.12339		57	6.7	7.2
	<b>31</b>					

	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	0.103653	3.4	59.5333333333	7.0633333333	7.5066666667
	Monthly Total					
	Daily Max	0.19853	3.4	68	7.5	8.1
	Daily Min	0	3.4	55	6.2	7.1
	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		0.2			
	LOQ		0.5			
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460			

	<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>	379	376	388	231	35
	<b>Description</b>	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable
	<b>Units</b>	minutes	Number	mg/L	mg/L	ug/L
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP
	<b>Frequency</b>	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>			0.30	220	46
	<b>6</b>					
	<b>7</b>					
	<b>8</b>			0.27	180	38
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>			0.14	250	33
	<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>			0.20	200	33
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	Sample Point	001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	379		376		388		231	
	Description	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Phosphorus, Total		Hardness, Total as CaCO3	
	Units	minutes		Number		mg/L		mg/L	
<b>Summary Values</b>	Monthly Avg					0.2275		212.5	
	Monthly Total								
	Daily Max					0.3		250	
	Daily Min					0.14		180	
	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	
	Lab Certification					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>	0.04922	9.5	0.010165	0.66	<3.0
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	0.03724	10	0.0098	0.57	
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	0.03366	12	0.01224	<0.49	
	<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>	0.03531	13	0.01391	<0.49	
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	Sample Point	001		001		001		001	
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	
	Parameter	35		147		147		87	
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Cadmium, Total Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L	
<b>Summary Values</b>	Monthly Avg	0.0388575		11.125		0.01152875		0.3075	
	Monthly Total								
	Daily Max	0.04922		13		0.01391		0.66	
	Daily Min	0.03366		9.5		0.0098		<0.49	
	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	
	LOQ			5				1	
	QC Exceedance	N		N		N		N	
	Lab Certification			999580010				999580010	

	<b>Sample Point</b>	001	001	101	101	101
	<b>Description</b>	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	<b>Parameter</b>	112	280	211	457	342
	<b>Description</b>	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	<b>Units</b>	ug/L	ng/L	MGD	mg/L	mg/L
	<b>Sample Type</b>	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB
	<b>Frequency</b>	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK
<b>Sample Results</b>	<b>Day 1</b>			0.016909	<1.9	1.5
	<b>2</b>			0.014899	3.0	
	<b>3</b>			0.004312	12.0	
	<b>4</b>					
	<b>5</b>			0.018377	3.0	4.4
	<b>6</b>			0.020768	3.5	
	<b>7</b>			0.021579	2.0	
	<b>8</b>	20		0.018231	3.0	
	<b>9</b>			0.010893	2.5	3.0
	<b>10</b>			0.003754	4.0	
	<b>11</b>					
	<b>12</b>			0.024190	2.0	3.2
	<b>13</b>			0.021344	4.5	
	<b>14</b>			0.026768	2.0	
	<b>15</b>			0.021009	2.5	2.8
	<b>16</b>			0.018385	3.5	2.8
	<b>17</b>					
	<b>18</b>					
	<b>19</b>			0.018687	4.0	
	<b>20</b>			0.017955	7.5	
	<b>21</b>			0.020703	5.0	
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>		<0.20	0.018883	9.0	3.1
	<b>27</b>			0.022171	4.5	2.4
	<b>28</b>			0.020250	2.5	
	<b>29</b>			0.024989	2.5	
	<b>30</b>			0.024306	3.0	
	<b>31</b>					



	Sample Point	001		001		101		101		
	Description	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		Metal Finishing Effluent		Metal Finishing Effluent		
	Parameter	112		280		211		457		
	Description	Chlorine, Total Residual		Mercury, Total Recoverable		Flow Rate		Suspended Solids, Total		
	Units	ug/L		ng/L		MGD		mg/L		
<b>Summary Values</b>	Monthly Avg	20		0		0.018607364		3.886363636		
	Monthly Total									
	Daily Max	20		<0.2		0.026768		12		
	Daily Min	20		<0.2		0.003754		<1.9		
	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		0.2				1.3		
	LOQ	100		0.5				5.1		
	QC Exceedance	N		N		N		N		
	Lab Certification			721026460				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	3.9	660	240	
	<b>2</b>	<0.49	4.2	780	240	<3.0
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>	<0.49	<2.2	210	86	
	<b>9</b>	0.59	<2.2	330	120	
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>	<0.49	<2.2	10	49	
	<b>16</b>	<0.49	<2.2	13	63	
	<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>	<0.49	5.3	960	270	
	<b>27</b>	<0.49	<2.2	410	100	
	<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	0.07375		1.675		421.625		146		0	
	Monthly Total										
	Daily Max	0.59		5.3		960		270		<3	
	Daily Min	<0.49		<2.2		10		49		<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>	7.6	<1.3	<1.1	6.9	7.9
	<b>2</b>	5.7	<1.3	<1.1	7.0	7.7
	<b>3</b>				7.2	7.9
	<b>4</b>					
	<b>5</b>				7.7	8.2
	<b>6</b>				7.6	8.3
	<b>7</b>				7.8	8.2
	<b>8</b>	4.1	<1.3	<1.1	7.7	8.4
	<b>9</b>	4.6	<1.3	<1.1	7.6	8.3
	<b>10</b>				7.2	8.0
	<b>11</b>					
	<b>12</b>				7.1	8.3
	<b>13</b>				6.9	7.7
	<b>14</b>				6.9	7.8
	<b>15</b>	6.2	<1.3	<1.1	6.8	7.5
	<b>16</b>	6.9	<1.3	<1.1	7.1	7.4
	<b>17</b>					
	<b>18</b>					
	<b>19</b>				7.1	8.0
	<b>20</b>				7.1	7.9
	<b>21</b>				7.0	8.0
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>	17	<1.3	<1.1	7.5	7.9
	<b>27</b>	14	<1.3	<1.1	6.8	8.0
	<b>28</b>				7.1	7.7
	<b>29</b>				7.0	7.5
	<b>30</b>				6.9	7.7
	<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	8.2625		0		0		7.181818182		7.922727273	
	Monthly Total										
	Daily Max	17		<1.3		<1.1		7.8		8.4	
	Daily Min	4.1		<1.3		<1.1		6.8		7.4	
	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>					
	<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>	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>					

	<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>					
	<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>					
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	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
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	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					4.5
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</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
<b>Summary Values</b>	<b>Monthly Avg</b>					4.5
	<b>Monthly Total</b>					
	<b>Daily Max</b>					4.5
	<b>Daily Min</b>					4.5
	<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>					0.2
	<b>LOQ</b>					0.5
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>					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>					
	<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>					
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	<b>27</b>					
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	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	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					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Monthly Total					
	Daily Max			680		11
	Daily Min				4	
	Rolling 12 Month Avg					
<b>QA/QC Information</b>	LOD					
	LOQ					
	QC Exceedance					
	Lab Certification					

	<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>		
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	<b>15</b>		
	<b>16</b>		
	<b>17</b>		
	<b>18</b>		
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	<b>21</b>		
	<b>22</b>		
	<b>23</b>		
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	<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			
	<b>Daily Max</b>			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

There was no sampling at outfall OF003 because the system has been down for the whole month of November for maintenance issues.

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 12/12/2018 2:09:56 PM