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October 17, 2022

Christopher Black
U.S. Environmental Protection Agency Region 5
Land, Chemicals & Redevelopment Division
77 West Jackson Blvd, LR-16J
Chicago, IL 60604-3590

Subject: *Quarterly Progress Report (July through September 2022)*
Administrative Order on Consent (February 26, 2009)
Tyco Fire Products LP, Stanton Street Facility, Marinette, Wisconsin
WID 006 125 215

Dear Mr. Black:

In accordance with Section VI, 21, b (page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009,[1] Tyco Fire Products LP (Tyco) has prepared this quarterly progress report for the U.S. Environmental Protection Agency (EPA) Region 5 and Wisconsin Department of Natural Resources (WDNR) (collectively referred to herein as the Agencies). Progress reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) corrective actions at the Tyco facility on Stanton Street in Marinette, Wisconsin. This report covers the period from July 1 through September 30, 2022, and presents a brief description of the work performed, data collected, problems encountered, and schedule of activities as required by the February 2009 AOC and subsequent agreements.

## Work Completed during This Reporting Period

Attachment 1 summarizes the operational data for the groundwater collection and treatment system (GWCTS) during the third quarter 2022, and Attachment 2 contains the monthly Discharge Monitoring Reports and the Whole Effluent Toxicity (WET) Test Report Form for Wisconsin Pollutant Discharge Elimination System (WPDES) outfall OF003. The GWCTS treats groundwater extracted from the Main Plant (EW-4, EW-5, EW-6, and EW-7) and Wetlands Area (EW-1) to maintain groundwater levels in those areas below ground surface and prevent surface flooding of the facility. The overall volume of groundwater extracted and treated by the GWCTS during the reporting period was 270,349 gallons (groundwater recovered from the pump down program [PDP] operations described as follows is not included in this total). Approximately 90,000 gallons of additional groundwater was pumped from the excavation for the building addition foundation as part of the GWCTS improvements, and approximately 600,000 gallons of groundwater resulting from dewatering operations during ongoing stormwater construction work at the site. Of the volume removed during dewatering operations, approximately 35,000 gallons were treated by

[1] U.S. Environmental Protection Agency. 2009. *Resource Conservation and Recovery Act Administrative Order on Consent, Ansul, Incorporated*. EPA Docket No. RCRA-05-2009-0007542-S-02-001. February 26.

the GWCTS; the remaining volume could not be accommodated by the GWCTS. A portion of this remaining volume has been disposed of offsite at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio. Tyco has mobilized a mobile treatment system to treat portions of the remaining water onsite prior to its discharge to the City of Marinette municipal wastewater treatment plan. Tyco has obtained a Temporary Discharge Permit (Permit No. 2001) to perform this work, along with sampling requirements associated with discharge monitoring. Currently, the remaining groundwater associated with these construction operations is being stored onsite in 20,000-gallon frac tanks in the former Salt Vault area.

Operations at the GWCTS continued to include bypassing the first two reaction tanks and the lamella with direct connection of the equalization tank to Reaction Tank 3, then Reaction Tank 4, and then the microfilter. The vibratory shear-enhanced processing (VSEP) units were also shut down and bypassed starting in mid-April due to a leak on top of one of the vertical stacks. The area to fix the leak is difficult to access; therefore, the VSEP units will continue to stay offline and bypassed until the new GWCTS improvements are complete. On September 15, 2022, the reject tank was connected to the conveyance piping that runs to the pump house (located in the former Salt Vault area) to pump reject water to a 10,000-gallon storage tank that was added within the pumphouse. The additional storage for the reject water temporarily increased the capacity of groundwater the GWCTS could treat. This approach for the reject water (to have the option to transfer reject water to the pump house) will also be incorporated into the GWCTS improvements, which will allow for more flexibility in operation of the GWCTS, more storage for the reject water in case trucking is delayed or limited, and easier and safer access to fill the tanker trucks for offsite disposal of the reject water. The GWCTS operated continuously except for short-term maintenance or weather-related shutdowns, some weekends, and holidays. The GWCTS was shut down on September 20, 2022, as part of the GWCTS improvements and will remain shut down until the improvements are in place and operational (planned for early 2023).

Pump down operations with the pump house system continued through third quarter 2022 in the former Salt Vault and former 8th Street Slip areas. The groundwater generated from the PDP is disposed of offsite at the Vickery disposal facility, and is managed separately from the GWCTS. Operations continued under management of Endpoint Solutions of Franklin, Wisconsin. Both the former Salt Vault and former 8th Street Slip areas have maintained average groundwater levels below the target elevation during the reporting period as indicated by the target elevation calculation included in the manual water level measurements table and also shown on the hydrographs of transducer data collected as part of the pump house system operations (Attachments 3 and 4, respectively). A maintenance calibration of the transducer levels was completed in third quarter 2022, to better correlate the transducer data (Attachment 4) to the manual water levels (Attachment 3). These discrepancies were noted in the second quarterly report for 2022. From July 1 to September 30, 2022, an additional 282,565 gallons of groundwater was extracted and disposed offsite as part of the PDP. Starting August 16, 2022, through the end of the reporting period, the totalizer for EW-9 in the former 8th Street Slip was not working. EW-9 was the primary well running in the former 8th Street Slip during that time and is estimated to pump at an average rate of 0.4 gallons per minute (gpm) for an additional estimated volume removed of 26,496 gallons; volumes will be confirmed with the waste disposal tickets once those are recieved. Average weekly pumping rates (which include both areas and the estimated 0.4 gpm at EW-9) ranged from 0.6 to 5.2 gpm and are summarized in Attachment 4. The pump house system was typically operated at a pumping rate of 0 to 3 gpm in each area. The system occasionally had lower or higher average daily pumping rates that would coincide with days when trucks were not available or additional volume was needed to generate the minimum volumes required by the disposal/trucking contractor, respectively. In the future, when the modified GWCTS is in place, a more consistent range of daily average pumping rates is expected. The overall average pumping rate for the

reporting period in the former Salt Vault was 1.4 gpm and in the former 8th Street Slip was 0.9 gpm. The overall rate of extraction across the PDP areas for the reporting period was 2.3 gpm.

Phyto-plot maintenance visits were completed by Sand County Environmental, Inc. of Rhinelander, Wisconsin, in Zone 4 (the Wetlands Area; where several trees were planted in spring 2022) and Zone 7 (area that was planted in June 2020) on July 14, August 16, and September 9, 2022 (Figure 1). There were some fencing repairs needed to keep deer out of the areas, but no major issues or findings to address. In Zone 4, no standing water was observed during the reporting period and the willow trees appear to be well suited for the area. Tyco will continue to monitor this area for standing water. In addition, at the end of August, ChemDesign removed 13 trees as part of Building 69 expansion; the trees were located west of Building 67 at the east end of Zone 1 (Figure 1). Tyco will look at areas where new trees could be planted in 2023, as appropriate.

Cover area repairs (identified during the spring 2022 inspection) were completed in August 2022. Cover Area D (Figure 2) asphalt was replaced where the asphalt was in poor condition; note that MW045 nest was covered over by asphalt during the repair and will be uncovered in the fourth quarter prior to the fourth quarter monitoring event. Cover Area H (Figure 2) was sealed over because it had a seam with a crack between the newer stormwater drainage swale and the older existing concrete. Photos of the repairs to these two areas are included in Attachment 5.

Pressure transducer–related activities were completed on August 25, 2022. These activities included downloading data from each transducer (does not include the PDP system transducers) and collecting manual water levels at the time of transducer downloads.

Monitoring well nest MW105 was abandoned July 25, 2022, as indicated in an email notification to WDNR on July 11, 2022, to allow for stormwater improvement activities to comply with WPDES permit requirements for the site. Abandonment was completed in compliance with Wisconsin Administrative Code Chapter NR141, using the site-specific grout designed for the saline conditions at the site and used for previous well construction and abandonment activities at the site. Monitoring well nest MW105 was located within Stanton Street and consisted of three wells including MW105S (completed to a depth of approximately 15 feet below ground surface [bgs]), MW105M (completed to a depth of approximately 30 feet bgs), and MW105D (completed to a depth of approximately 42 feet bgs). Abandonment of these wells was required to improve drainage along the western portion of the site, which required modifications along the entire length of Stanton Street. Tyco plans to replace these monitoring wells in spring 2023 near their existing location upon completion of the site activities (likely late fall 2022).

Monitoring well nest MW013 flush mount covers were set in place (after completion of the parking lot) on July 25, 2022, by Endpoint Solutions. The wells were surveyed on August 28, 2022 by Endpoint Solutions, a Wisconsin-licensed surveyor. The updated survey coordinates and elevation data will be provided in the annual report.

The vertical barrier wall (Figure 3) inspection (landside and waterside above the waterline) was completed on July 14, 2022, by Endpoint Solutions. On July 7 and 8 and August 24, 2022, Endpoint Solutions also completed a survey of the sheet pile barrier wall. All 53 wall dimples were measured. No major issues were identified and minor vegetation growth identified at the sheet pile seams was removed and treated during the inspection. The vertical barrier wall inspection details and summary of the survey data will be provided in the annual report.

### Additional Activities

Follow-on activities as part of the final WPDES Permit WI-0001040-08-0 (effective January 1, 2021, through December 31, 2025) continued in third quarter 2022 and included the following:

- Activities to implement the GWCTS improvements continued in third quarter 2022, including equipment and material procurement, and construction activities. Procurement activities included and will continue to include actively tracking long-lead items and other potential supply-chain issues that could cause potential construction delays. Construction activities included installing foundation components for the building addition (piles to support the foundation, concrete foundation, concrete building pad and curbing, and concrete apron surrounding the building) and starting demolition activities inside the main GWCTS building (draining the lines/equipment and breaking down equipment for offsite disposal or clean steel components for recycling).
- Stormwater improvement (approved by WDNR) planning and construction that will result in the abandonment of the subsurface stormwater lines and management of stormwater through aboveground surface flow, as needed, continued under management of Arcadis. Equipment and material procurement continued in third quarter 2022, and construction started on August 8, 2022. During the work, there were four slurry wall crossings along Stanton Street and the western edge of the site. The crossings were across Stanton Street into a master metering building located along the northern end of the west side of Building 29, a water line crossing about halfway down Stanton Street northwest of the northwest corner of Building 29, a tee from the water line into Building 36, and a fire water line connection near the pump house (Building 86) on the northern end of Stanton Street. The areas where the slurry wall was penetrated were repaired by digging down to the affected area and backfilling with a grout mixture similar to that used during the original slurry wall installation. Additional details on these locations, repairs made, and results of grout permeability testing that was conducted on the new mix will be provided in the next quarterly report or annual report.
- Soil excavated during the reporting period from the above activities was either placed in rolloff boxes or appropriately stockpiled onsite. Where possible, soils were placed back in the excavation. The accounting of soils will be provided in the next quarterly report, after the excavation work is completed.

Three stilling pipes for housing pressure transducers were installed within the Main Channel and Turning Basin portions of the Menominee River along the barrier wall during the week of September 12, 2022. Pressure transducers were subsequently installed within each stilling pipe on September 19, 2022. The transducers were installed to compare surface water elevations in other areas to the existing SG4 staff gauge and transducer. The stilling wells were placed at weir locations 2, 3, and 4 (Figure 3), where a survey measurement is in place to allow for manual measurements of the surface water elevation (except Weir 3, where a survey measurement is still needed). The stilling wells were constructed of 4-inch-diameter polyvinyl chloride well screen with an open top and bottom and were securely attached to the weirs. The vertical pipe is approximately 10 feet long. The stilling pipes were installed in a manner that did not compromise the integrity of the barrier wall.

## Data Collected

Extraction and treatment volumes, analytical testing, and discharge data are required as part of the WPDES permits obtained from WDNR for operating the existing GWCTS, which operates under WPDES Permit WI-0001040-08-0. Attachment 2 includes the GWCTS monthly WPDES Discharge Monitoring

Reports for June 2022 through August 2022 and WET Test Report Form for WPDES outfall OF003. Attachment 1 contains additional data on GWCTS operations.

Weekly groundwater elevation data were collected from monitoring wells in the former 8th Street Slip and former Salt Vault areas in accordance with the PDP requirements, and the data are included in the 2022 PDP summary table (Attachment 3). Water level data from transducers in monitoring wells and pumping rates collected as part of the PDP pump house system are also summarized in a hydrograph and stacked bar chart (with average weekly pumping rates), respectively (Attachment 4).

Groundwater elevation data recorded by transducers and downloaded in August 2022 are being compiled and evaluated. The transducer data will be provided in the annual report.

## Problems Encountered

During portions of the reporting period, the Menominee River level rose to above the top of the vertical barrier wall in the Wetlands Area of the site. Two of the 11 manual river level measurements collected during the reporting period exceeded the top of the Wetlands Area vertical barrier wall (581.48 feet above mean sea level [AMSL] relative to the North American Vertical Datum 1988). River levels did not exceed the weir elevations in the Main Plant area throughout the quarter (582.30 to 582.49 feet AMSL).

## Schedule of Upcoming Activities

The following summarizes the activities to be conducted during the next reporting period:

- Submit the quarterly progress report
- Continue PDP operations in the former Salt Vault and former 8th Street Slip areas
- Continue with shutdown of the GWCTS until upgrades are complete
- Continue procurement and construction activities (including actively tracking long-lead items and other potential supply-chain issues that could cause potential construction delays) to implement the GWCTS improvements
- Continue stormwater improvement construction activities
- Conduct fourth quarter 2022 semiannual barrier wall water level monitoring event
- Conduct transducer data download activities
- Submit 2023 sediment sampling work plan

## List of Key Correspondence and Document Submittals

Project-related documents submitted to and received from the Agencies during third quarter 2022 are summarized in Tables 1 and 2, respectively.

Table 1. Documents Submitted
*Quarterly Progress Report (July through September 2022), Tyco Fire Products LP Facility, Marinette, Wisconsin*

| Description of Submittal | Submitted To | Date Submitted |
|---|---|---|
| Quarterly Progress Report (Second Quarter 2022) | EPA | July 15, 2022 |
| Email Notification – MW105 Nest Abandonment Activities | WDNR | July 11, 2022 |

Table 2. Correspondence from Agency
*Quarterly Progress Report (July through September 2022), Tyco Fire Products LP Facility, Marinette, Wisconsin*

| Description of Correspondence | Submitted By | Date Submitted |
|---|---|---|
| None for third quarter 2022 | | |

If you have any questions or require additional information, please contact me at 262-644-6167 or Denice Nelson at 651-280-7259.

Respectfully Yours,

Jacobs

Heather Ziegelbauer
Project Manager

cc: Angela Carey, WDNR
Sarah Krueger, WDNR
Ryan Suennen, Tyco Fire Products
Denice Nelson, Johnson Controls
Mariel Carter, Stephenson Public Library

Figures

1 Phyto-Plot Location Map
2 Cover Area Location Map
3 Vertical Barrier Wall Details

Attachments

1 Groundwater Collection and Treatment System Operation Summary
2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System
3 2022 Pump Down Program Groundwater Elevation Monitoring
4 Third Quarter 2022 PDP Pump House System Hydrograph and Pumping Rates
5 Photo Log – Cover Areas D and H Repairs

Document Control No.: D3630600.292

# Figures

ZONE 5

GROUNDWATER TREATMENT BUILDING

ZONE 6

ZONE 7

ZONE 1

ZONE 4

ZONE 2

ZONE 2

ZONE 3

MW118S MW118M MW118D-R MW107S MW107M MW107D MW122S MW121S MW117S MW117D MW117M MW045M MW045S MW041S MW041M MW041D MW067S MW005M MW005S TW-1 MW123S MW068S MW003D MW003M MW003S BT-02 MW106D MW106S MW106M MW008M GW008S MW108D MW108M MW108S MW124S EW-4 TW-2 TW02 EW-7 MW009S MW009M MW044M MW044S MW114S MW114M EW-12 EW-6 EW-5 MW040D MW040M MW040S MW105D MW105M MW105S MW042D MW042M MW042S MW011S MW011M PZ09 PZ08 PZ05 PZ07 PZ03 PZ06 PZ04 PZ02 PZ01 MW103S MW103M MW104S MW104M MW062S MW062M MW063M MW063S MW061S MW061M MW066M MW066S MW060S MW060M MW059S MW059M MW054S MW053S MW052S MW012S MW012M MW033M MW001S MW001M EW-10 EW-11 MW113S MW113M MW033S MW032S MW032M MW031S MW031M EW-3 TRUCK BAY HW-01 HW-02 PUMP HOUSE BUILDING MW064M MW064S MW064D MW050S MW050D MW050M MW102S MW102M MW102D MW120S MW120M MW120D SG4 MW116S MW116P EW-14 EW-13 MW119D MW115P MW115S MW002M-R MW002S-R MW034M MW035M MW046S BT-01 MW048M EW-09 MW034S MW035S MW046D MW047S MW047M MW047D MW048S MW048M MW100S MW100M MW100D MW019S MW109S MW109M MW109D MW036M MW037M MW036S MW037S MW004S EW-08 MW004M EW-1 MW101M MW101S MW021S (TO BE REPLACED) MW021S-R MW021M EW-2 MW039S MW039M MW038S MW038M MW049M MW049S MW022S MW022M MW013M MW013S MW013D

## NOTES:

1. EXCEPT FOR THE SALT VAULT AND 8TH STREET SLIP, ARSENIC SAMPLING WAS CONDUCTED ANNUALLY IN 2021 AND SAMPLING FREQUENCY WILL CONTINUE TO BE RE-EVALUATED IN ANNUAL REPORTS. ARSENIC SAMPLING IN THE SALT VAULT AND 8TH STREET SLIP WILL BE CONDUCTED EVERY 5 YEARS, WITH THE NEXT EVENT IN 2023.
2. MW002S, MW115S, MW119D, MW120S, AND MW120D ARE EQUIPPED WITH TRANSDUCERS IN THE FORMER SALT VAULT/8TH STREET SLIP AREAS TO MONITOR THE PUMP DOWN PROGRAM AND WILL BE EVALUATED ANNUALLY TO DETERMINE WHETHER TRANSDUCERS AT THESE MONITORING WELL LOCATIONS ARE STILL NEEDED.
3. SEE FIGURE 4-1 OF 2015 BWGMPU FOR WELL LOCATIONS MONITORED AS PART OF PUMP DOWN PROGRAM.
4. PER THE 2020 ANNUAL REPORT, A TRANSDUCER WAS NOT INSTALLED AT MW048S AS IT WAS DETERMINED TO NO LONGER BE NEEDED FOR FUTURE EVALUATIONS AND ORANGE SHADING WAS REMOVED FROM THE WELL LABEL.

## LEGEND

- EW-5 OR BT-02 — EXTRACTION WELL OR TEST WELL
- MW002S OR MW115P — MONITORING WELL - SHALLOW OR PEAT
- MW002M — MONITORING WELL - MEDIUM
- MW002D — MONITORING WELL - DEEP (BEDROCK)
- PZ04 — PIEZOMETER
- VW-TB01 — VIBRATING WIRE PIEZOMETER
- SG1 — STAFF GAUGE
- WELLS PREVIOUSLY ABANDONED OR DESTROYED
- GRAB GROUNDWATER SAMPLE LOCATION
- SHEET PILE WALL
- SLURRY WALL
- * — ARSENIC SAMPLING EVERY 5 YEARS
- ** — VOC SAMPLING EVERY 5 YEARS
- HORIZONTAL WELL (SCREEN)
- HORIZONTAL WELL (RISER)

- ARSENIC SAMPLING LOCATION AND MANUAL WATER LEVEL MEASUREMENT
- TRANSDUCER GROUNDWATER ELEVATION MEASUREMENT LOCATION AND ARSENIC SAMPLING LOCATION
- BOX AROUND HIGHLIGHTING INDICATES TRANSDUCER DATA WILL BE ANALYZED USING SERIES SEE
- TRANSDUCER WATER LEVEL MEASUREMENT AND MANUAL WATER ELEVATION MEASUREMENT AT TIME OF ARSENIC SAMPLING
- MANUAL GROUNDWATER ELEVATION MEASUREMENT ONLY AT TIME OF ARSENIC SAMPLING EVENTS
- PHYTO-PUMPING AREAS

N

0 100 200 300

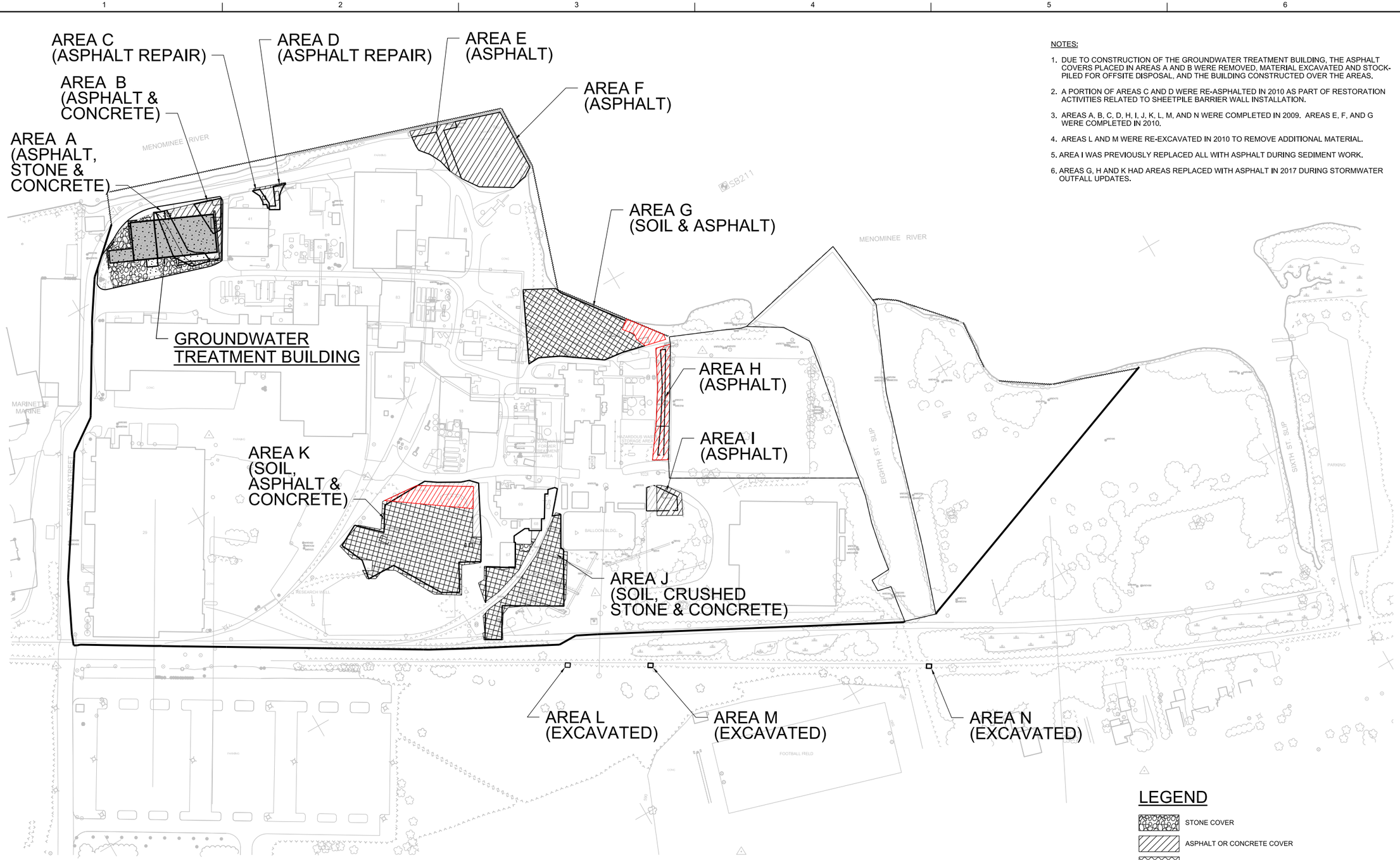
SCALE IN FEET

# FIGURE 1
## SITE PLAN WITH WELLS

TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

JACOBS

FILENAME: PGETAMW4_D3478800.dgn PLOT DATE: 2022\03\03 PLOT TIME: 11:29:21 AM




NOTES:

1. DUE TO CONSTRUCTION OF THE GROUNDWATER TREATMENT BUILDING, THE ASPHALT COVERS PLACED IN AREAS A AND B WERE REMOVED, MATERIAL EXCAVATED AND STOCK-PILED FOR OFFSITE DISPOSAL, AND THE BUILDING CONSTRUCTED OVER THE AREAS.
2. A PORTION OF AREAS C AND D WERE RE-ASPHALTED IN 2010 AS PART OF RESTORATION ACTIVITIES RELATED TO SHEETPILE BARRIER WALL INSTALLATION.
3. AREAS A, B, C, D, H, I, J, K, L, M, AND N WERE COMPLETED IN 2009. AREAS E, F, AND G WERE COMPLETED IN 2010.
4. AREAS L AND M WERE RE-EXCAVATED IN 2010 TO REMOVE ADDITIONAL MATERIAL.
5. AREA I WAS PREVIOUSLY REPLACED ALL WITH ASPHALT DURING SEDIMENT WORK.
6. AREAS G, H AND K HAD AREAS REPLACED WITH ASPHALT IN 2017 DURING STORMWATER OUTFALL UPDATES.

DSGN T. CHAPMAN | DR G. BOWLES | CHK J. DANKO | APVD H. ZIEGELBAUER



JACOBS

TYCO FIRE PRODUCTS LP
Cover Maintenance Plan for
Onsite and Offsite Soil Areas at
the Tyco Fire Products LP Facility
Marinette, Wisconsin

FIGURE 2
AREA LOCATION MAP

SCALE: 1" = 200'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
DATE DECEMBER 2018
PROJ 704683
REVISION 1
PRELIMINARY

FILENAME: O&M-Fig11_Overall.dgn PLOT DATE: 2018\12\17 PLOT TIME: 11:59:25 AM

MENOMINEE RIVER

TURNING BASIN AREA

2010 SHEET PILE WALL

WEIR #1

WEIR #2

WEIR #3

WEIR #4

PT "A"

PT "B"

PT "C"

PT "D"

PT "E"

PT "F"

PT "G"

PT "H"

PT "I"

PT "J"

PT "K"

PT "M"

D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8 D-9 D-10 D-11 D-12 D-13 D-14 D-15 D-16 D-17 D-18 D-19 D-20 D-21 D-22 D-23 D-24 D-25 D-26 D-27 D-28 D-29 D-30 D-31 D-32 D-33 D-34 D-35 D-36 D-37 D-38 D-39 D-40 D-41 D-42 D-43 D-45 D-46 D-47 D-48 D-49 D-50 D-51 D-52 D-53

COAL DOCK AREA

BLDG 71

BLDG 43

BLDG 40

BLDG 41

BLDG 42

GROUNDWATER TREATMENT BUILDING

H-PILE WALL

BUILDING 86

BUILDING 36

2009 SLURRY WALL

MAIN PLANT AREA

BUILDING 29

FORMER SALT VAULT

FORMER EIGHTH STREET SLIP

BUILDING 59

WETLANDS AREA

2009 SLURRY WALL

2009 SLURRY WALL

STANTON STREET

WATER STREET

N

0 80 160 240

SCALE IN FEET

LEGEND

- 1998-2000 SHEET PILE WALL
- 2009 SLURRY WALL
- 2009 JET GROUTING LOCATION
- 2010 SHEET PILE WALL
- 2010 H-PILE WALL AND TIE-RODS
- 1998-2000 SLURRY WALL
- 2013 H-PILE WALL AND TIE-RODS
- CORNER POINT LOCATIONS
- DIMPLE LOCATION

# FIGURE 3

## VERTICAL BARRIER WALL DETAILS

TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

JACOBS

FILENAME: Figure_3_D3394600.dgn PLOT DATE: 2020\07\13 PLOT TIME: 3:50:23 AM

# Attachment 1
# Groundwater Collection and Treatment System Operation Summary

# Groundwater Collection and Treatment System Operations for Tyco Fire Products LP, Marinette, Wisconsin, July 1 through September 30, 2022

The following summarizes groundwater collection and treatment system (GWCTS) operations from July 1 through September 30, 2022, at the Tyco Fire Products LP facility on Stanton Street in Marinette, Wisconsin:

- The GWCTS operated for 17 days in July 2022, 24 days in August 2022, and 15 days in September 2022, for a total of 56 days.
- For the reporting period, the precipitation recorded from the weather station in Marinette, Wisconsin, was 10.75 inches of rain (http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail).
- An estimated 267,199 gallons of groundwater was extracted (not including volumes extracted as part of the pump down program [PDP]) from the site during the reporting period. Table 1-1 lists the water volumes extracted from each area of the site for this quarter based on the recorded data. An additional approximately 690,000 gallons of groundwater was pumped from construction excavation activities and an estimated 35,000 gallons of that was treated by the GWCTS.
- During the reporting period, an estimated 270,349 gallons of water was discharged to the Menominee River as effluent under the Wisconsin Pollutant Discharge Elimination System permit.
- Approximately 271,829 gallons of reject water was produced this reporting period during system operations and subsequently disposed of offsite.

Table 1-1. Extraction Well Data Summary (July through September 2022)
*GWCTS Operations, Tyco Fire Products LP Facility, Marinette, Wisconsin*

| Extraction Well | Gallons Run, Third Quarter 2022 (July 1 through September 30, 2022) |
|---|---|
| EW-1 | 575 |
| EW-2 | Not operated in lieu of ongoing PDP |
| EW-3 | Not operated in lieu of ongoing PDP |
| EW-4 | 14 |
| EW-5 | 4,752 |
| EW-6 | 5,211 |
| EW-7 | 256,647 |
| Extraction Well Total | 267,199 |
| Construction Activities Total | ~690,000 |
| Total | ~957,199 |

# Attachment 2
# Discharge Monitoring Reports for the Groundwater Collection and Treatment System

**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: 715-735-7415
Reporting Period: 06/01/2022 - 06/30/2022
Form Due Date: 07/21/2022
Permit Number: 0001040

| | |
|---|---|
| Date Received: | |
| DOC: | 494157 |
| FIN: | 7245 |
| FID: | 438039470 |
| Region: | Northeast Region |
| Permit Drafter: | Jason R Knutson |
| Reviewer: | Laura A Gerold |
| Office: | Green Bay |

| | Sample Point | 703 | 001 | 001 | 703 | 001 |
|---|---|---|---|---|---|---|
| | Description | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | Parameter | 211 | 211 | 373 | 35 | 374 |
| | Description | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | Units | gpd | MGD | su | ug/L | su |
| | Sample Type | TOT DAILY | CONTINUOUS | CONTINUOUS | GRAB | CONTINUOUS |
| | Frequency | DAILY | DAILY | DAILY | MONTHLY | DAILY |
| Sample Results | Day 1 | | 0.16070 | 7.5 | | 7.2 |
| | 2 | | 0.14590 | 7.4 | | 7.2 |
| | 3 | | 0.11630 | 7.4 | | 7.1 |
| | 4 | | 0.08760 | 7.5 | | 7.2 |
| | 5 | | 0.09320 | 7.5 | | 7.2 |
| | 6 | | 0.18410 | 7.3 | | 6.9 |
| | 7 | | 0.14830 | 7.5 | | 7.2 |
| | 8 | | 0.17720 | 7.4 | | 6.9 |
| | 9 | | 0.15430 | 7.3 | | 7.1 |
| | 10 | | 0.10550 | 7.5 | | 7.4 |
| | 11 | | 0.11170 | 7.6 | | 7.1 |
| | 12 | | 0.09480 | 7.6 | | 7.3 |
| | 13 | | 0.14640 | 7.3 | | 7.1 |
| | 14 | | 0.13270 | 7.4 | | 7.2 |
| | 15 | | 0.16620 | 7.5 | | 6.7 |
| | 16 | | 0.13140 | 7.4 | | 7.1 |
| | 17 | | 0.11290 | 7.5 | | 7.0 |
| | 18 | | 0.08720 | 7.5 | | 7.1 |
| | 19 | | 0.10200 | 7.4 | | 7.2 |
| | 20 | | 0.13160 | 7.2 | | 6.9 |
| | 21 | | 0.12440 | 7.4 | | 7.1 |
| | 22 | | 0.13350 | 7.4 | | 7.0 |
| | 23 | | 0.10580 | 7.2 | | 6.9 |
| | 24 | | 0.06180 | 7.4 | | 7.1 |
| | 25 | | 0.02970 | 7.6 | | 7.5 |
| | 26 | | 0.07010 | 7.8 | | 7.1 |
| | 27 | | 0.12680 | 7.3 | | 6.9 |
| | 28 | | 0.13570 | 7.8 | | 6.9 |
| | 29 | | 0.12770 | 7.7 | | 7.2 |
| | 30 | | 0.13610 | 7.9 | | 7.2 |
| | 31 | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 703 | 001 | 001 | 703 | 001 |
| | **Description** | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | **Parameter** | 211 | 211 | 373 | 35 | 374 |
| | **Description** | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | **Units** | gpd | MGD | su | ug/L | su |
| **Summary Values** | **Monthly Avg** | | 0.121386667 | 7.473333333 | | 7.1 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 0.1841 | 7.9 | | 7.5 |
| | **Daily Min** | | 0.0297 | 7.2 | | 6.7 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | |
| | **Daily Min** | | | | | 6 0 |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 480 | 231 | 35 | 35 | 87 |
| | Description | Temperature Maximum | Hardness, Total as CaCO3 | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Cadmium, Total Recoverable |
| | Units | degF | mg/L | ug/L | lbs/day | ug/L |
| | Sample Type | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | Frequency | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | 83 | | | | |
| | 2 | 68 | | | | |
| | 3 | 65 | | | | |
| | 4 | 64 | | | | |
| | 5 | 62 | | | | |
| | 6 | 64 | | | | |
| | 7 | 67 | | | | |
| | 8 | 69 | | | | |
| | 9 | 68 | | | | |
| | 10 | 64 | | | | |
| | 11 | 64 | | | | |
| | 12 | 63 | | | | |
| | 13 | 68 | | | | |
| | 14 | 72 | | | | |
| | 15 | 76 | | | | |
| | 16 | 72 | | | | |
| | 17 | 69 | | | | |
| | 18 | 63 | | | | |
| | 19 | 63 | | | | |
| | 20 | 72 | 310 | 120 | 0.132 | <0.49 |
| | 21 | 76 | | | | |
| | 22 | 72 | | | | |
| | 23 | 71 | | | | |
| | 24 | 72 | | | | |
| | 25 | 67 | | | | |
| | 26 | 67 | | | | |
| | 27 | 70 | | | | |
| | 28 | 70 | | | | |
| | 29 | 73 | | | | |
| | 30 | 72 | | | | |
| | 31 | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 001 | | 001 | | 001 | | 001 | | 001 | |
| | **Description** | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | |
| | **Parameter** | 480 | | 231 | | 35 | | 35 | | 87 | |
| | **Description** | Temperature Maximum | | Hardness, Total as CaCO3 | | Arsenic, Total Recoverable | | Arsenic, Total Recoverable | | Cadmium, Total Recoverable | |
| | **Units** | degF | | mg/L | | ug/L | | lbs/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | 68.866666667 | | 310 | | 120 | | 0.132 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 83 | | 310 | | 120 | | 0.132 | | <0.49 | |
| | **Daily Min** | 62 | | 310 | | 120 | | 0.132 | | <0.49 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | 57 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | | | | | 170 | 0 | 0.81 | 0 | 57 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | 2.1 | | | | 0.49 | |
| | **LOQ** | | | | | 5 | | | | 1 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | 999580010 | | | | 999580010 | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 87 | 147 | 147 | 152 | 152 |
| | Description | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable | Cyanide, Amenable | Cyanide, Amenable |
| | Units | lbs/day | ug/L | lbs/day | ug/L | lbs/day |
| | Sample Type | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | 0.000539 | 24 | 0.0264 | <3.6 | 0.00396 |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 001 | | 001 | | 001 | | 001 | | 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | |
| | Parameter | 87 | | 147 | | 147 | | 152 | | 152 | |
| | Description | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Copper, Total Recoverable | | Cyanide, Amenable | | Cyanide, Amenable | |
| | Units | lbs/day | | ug/L | | lbs/day | | ug/L | | lbs/day | |
| **Summary Values** | **Monthly Avg** | 0.000539 | | 24 | | 0.0264 | | 0 | | 0.00396 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.000539 | | 24 | | 0.0264 | | <3.6 | | 0.00396 | |
| | **Daily Min** | 0.000539 | | 24 | | 0.0264 | | <3.6 | | 0.00396 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | 69 | 0 | | | 92 | 0 | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.27 | 0 | 69 | 0 | 0.98 | 0 | 92 | 0 | 0.44 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.7 | | | | 0.0036 | | | |
| | **LOQ** | | | 5 | | | | 0.005 | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | | | 999580010 | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 112 | 280 | 1352 | 1353 | 1353 |
| | Description | Chlorine, Total Residual | Mercury, Total Recoverable | PFOA | PFOS | PFOS |
| | Units | ug/L | ng/L | ng/L | ng/L | mg/day |
| | Sample Type | GRAB | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | 240 | 29 | 1.3673 |
| | 21 | 20 | | | | |
| | 22 | | 1.7 | | | |
| | 23 | | | | | |
| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 112 | 280 | 1352 | 1353 | 1353 |
| | Description | Chlorine, Total Residual | Mercury, Total Recoverable | PFOA | PFOS | PFOS |
| | Units | ug/L | ng/L | ng/L | ng/L | mg/day |
| **Summary Values** | Monthly Avg | 20 | 1.7 | 240 | 29 | 1.3673 |
| | Monthly Total | | | | | |
| | Daily Max | 20 | 1.7 | 240 | 29 | 1.3673 |
| | Daily Min | 20 | 1.7 | 240 | 29 | 1.3673 |
| **Limit(s) in Effect** | Monthly Avg | 38 0 | | | | |
| | Monthly Total | | | | | |
| | Daily Max | 38 0 | 29 0 | | | |
| | Daily Min | | | | | |
| **QA/QC Information** | LOD | 30 | 0.079 | 0.77 | 0.49 | |
| | LOQ | 100 | 0.5 | 1.8 | 1.8 | |
| | QC Exceedance | N | N | N | N | N |
| | Lab Certification | | 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 | 211 | 373 | 374 | 379 | 376 |
| | Description | Flow Rate | pH (Maximum) | pH (Minimum) | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
| | Units | MGD | su | su | minutes | Number |
| | Sample Type | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS |
| | Frequency | DAILY | DAILY | DAILY | DAILY | DAILY |
| Sample Results | Day 1 | 0.03619 | 7.8 | 6.4 | | |
| | 2 | 0.02362 | 7.4 | 6.3 | | |
| | 3 | 0.01734 | 7.5 | 6.5 | | |
| | 4 | 0.00660 | 6.4 | 6.2 | | |
| | 5 | 0 | | | | |
| | 6 | 0.03662 | 7.1 | 6.7 | | |
| | 7 | 0.03832 | 8.0 | 6.2 | | |
| | 8 | 0.04031 | 7.2 | 6.3 | | |
| | 9 | 0.03901 | 7.1 | 6.5 | | |
| | 10 | 0.01046 | 7.0 | 6.4 | | |
| | 11 | 0.01160 | 7.9 | 6.9 | | |
| | 12 | 0 | | | | |
| | 13 | 0.04264 | 7.3 | 6.4 | | |
| | 14 | 0.03298 | 7.2 | 6.4 | | |
| | 15 | 0.04108 | 8.3 | 6.4 | | |
| | 16 | 0.03276 | 8.6 | 6.3 | | |
| | 17 | 0.01463 | 7.2 | 6.4 | | |
| | 18 | 0 | | | | |
| | 19 | 0 | | | | |
| | 20 | 0.04690 | 7.5 | 6.6 | | |
| | 21 | 0.02886 | 7.4 | 6.4 | | |
| | 22 | 0.03262 | 7.6 | 6.4 | | |
| | 23 | 0.02867 | 7.7 | 6.5 | | |
| | 24 | 0.01216 | 7.5 | 6.4 | | |
| | 25 | 0 | | | | |
| | 26 | 0 | | | | |
| | 27 | 0.04700 | 7.4 | 6.8 | | |
| | 28 | 0.04051 | 7.2 | 6.5 | | |
| | 29 | 0.03676 | 7.4 | 6.6 | | |
| | 30 | 0.03794 | 7.7 | 6.4 | | |
| | 31 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 211 | | 373 | | 374 | | 379 | | 376 | |
| | **Description** | Flow Rate | | pH (Maximum) | | pH (Minimum) | | pH Total Exceedance Time Minutes | | pH Exceedances Greater Than 60 Minutes | |
| | **Units** | MGD | | su | | su | | minutes | | Number | |
| **Summary Values** | **Monthly Avg** | 0.024519333 | | 7.475 | | 6.454166667 | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.047 | | 8.6 | | 6.9 | | | | | |
| | **Daily Min** | 0 | | 6.4 | | 6.2 | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | 446 | 0 | 0 | 0 |
| | **Daily Max** | | | 9 | 0 | | | | | | |
| | **Daily Min** | | | | | 6 | 0 | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | | | | | | | | |

| | Sample Point | 101 | 101 | 101 | 101 | 101 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
| | Parameter | 457 | 651 | 87 | 147 | 315 |
| | Description | Suspended Solids, Total | Oil & Grease (Hexane) | Cadmium, Total Recoverable | Copper, Total Recoverable | Nickel, Total Recoverable |
| | Units | mg/L | mg/L | ug/L | ug/L | ug/L |
| | Sample Type | 24 HR FLOW PROP | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | Frequency | 3/WEEK | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | <1.9 | | | | |
| | 2 | <1.9 | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | <1.9 | | | | |
| | 7 | | | | | |
| | 8 | 3.6 | | | | |
| | 9 | <1.9 | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | <1.9 | | | | |
| | 14 | | | | | |
| | 15 | <1.9 | | | | |
| | 16 | <1.9 | | <0.49 | 5.9 | 2.6 |
| | 17 | | <1.4 | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | <1.9 | | | | |
| | 21 | | | | | |
| | 22 | <1.9 | | | | |
| | 23 | <1.9 | | | | |
| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | 4.2 | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 457 | | 651 | | 87 | | 147 | | 315 | |
| | **Description** | Suspended Solids, Total | | Oil & Grease (Hexane) | | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Nickel, Total Recoverable | |
| | **Units** | mg/L | | mg/L | | ug/L | | ug/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.65 | | 0 | | 0 | | 5.9 | | 2.6 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 4.2 | | <1.4 | | <0.49 | | 5.9 | | 2.6 | |
| | **Daily Min** | <1.9 | | <1.4 | | <0.49 | | 5.9 | | 2.6 | |
| **Limit(s) in Effect** | **Monthly Avg** | 31 | 0 | 26 | 0 | 260 | 0 | 2070 | 0 | 2380 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 60 | 0 | 52 | 0 | 690 | 0 | 3380 | 0 | 3980 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.4 | | 0.49 | | 1.7 | | 1.5 | |
| | **LOQ** | | | 5.2 | | 1 | | 5 | | 5 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | 999580010 | | 999580010 | | 999580010 | | 999580010 | | 999580010 | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | 101 | 101 | 101 | 101 |
| | **Description** | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
| | **Parameter** | 553 | 507 | 280 | 280 | 35 |
| | **Description** | Zinc, Total Recoverable | Total Toxic Organics | Mercury, Total Recoverable | Mercury, Total Recoverable | Arsenic, Total Recoverable |
| | **Units** | ug/L | ug/L | ng/L | mg/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | | | | | |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | | | | | |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | | | | | |
| | **16** | 47 | | | | <2.1 |
| | **17** | | | | | |
| | **18** | | | | | |
| | **19** | | | | | |
| | **20** | | | | | |
| | **21** | | | | | |
| | **22** | | | 0.35 | 0.0433 | |
| | **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** | 553 | | 507 | | 280 | | 280 | | 35 | |
| | **Description** | Zinc, Total Recoverable | | Total Toxic Organics | | Mercury, Total Recoverable | | Mercury, Total Recoverable | | Arsenic, Total Recoverable | |
| | **Units** | ug/L | | ug/L | | ng/L | | mg/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | 47 | | | | 0.35 | | 0.0433 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 47 | | | | 0.35 | | 0.0433 | | <2.1 | |
| | **Daily Min** | 47 | | | | 0.35 | | 0.0433 | | <2.1 | |
| **Limit(s) in Effect** | **Monthly Avg** | 1480 | 0 | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2610 | 0 | 2130 | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | 3.6 | | | | 0.079 | | | | 2.1 | |
| | **LOQ** | 10 | | | | 0.5 | | | | 5 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | 999580010 | | | | 999580010 | | | | 999580010 | |

| | Sample Point | 101 | 704 | 704 | 704 | 704 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | Parameter | 35 | 211 | 35 | 457 | 280 |
| | Description | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | Units | lbs/day | gpd | ug/L | mg/L | ng/L |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | MONTHLY |
| Sample Results | Day 1 | | 8228 | 3600 | 27 | |
| | 2 | | 7365 | | | |
| | 3 | | 4495 | | | |
| | 4 | | 0 | | | |
| | 5 | | 0 | | | |
| | 6 | | 5187 | | | |
| | 7 | | 9934 | | | |
| | 8 | | 5534 | | | |
| | 9 | | 10491 | 3200 | 5 | |
| | 10 | | 3468 | | | |
| | 11 | | 0 | | | |
| | 12 | | 0 | | | |
| | 13 | | 0 | | | |
| | 14 | | 14964 | | | |
| | 15 | | 7666 | | | |
| | 16 | 0.000567 | 5579 | | | |
| | 17 | | 8720 | | | |
| | 18 | | 0 | | | |
| | 19 | | 0 | | | |
| | 20 | | 5251 | 4400 | 41 | |
| | 21 | | 10305 | | | |
| | 22 | | 5255 | | | 2.1 |
| | 23 | | 9226 | | | |
| | 24 | | 3387 | | | |
| | 25 | | 0 | | | |
| | 26 | | 0 | | | |
| | 27 | | 9005 | 3600 | 32 | |
| | 28 | | 6308 | | | |
| | 29 | | 11404 | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 101 | 704 | 704 | 704 | 704 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | Parameter | 35 | 211 | 35 | 457 | 280 |
| | Description | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | Units | lbs/day | gpd | ug/L | mg/L | ng/L |
| **Summary Values** | **Monthly Avg** | 0.000567 | 5233.517241379 | 3700 | 26.25 | 2.1 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.000567 | 14964 | 4400 | 41 | 2.1 |
| | **Daily Min** | 0.000567 | 0 | 3200 | 5 | 2.1 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | 21 | | 0.079 |
| | **LOQ** | | | 50 | | 0.5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | 999580010 | 999580010 | 999580010 |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| | Sample Type | BLANK | CONTINUOUS | CONTINUOUS | CONTINUOUS | 24 HR FLOW PROP |
| | Frequency | MONTHLY | DAILY | DAILY | DAILY | WEEKLY |
| Sample Results | Day 1 | | 0.005066 | 6.6 | 6.1 | |
| | 2 | | 0.004457 | 6.8 | 6.6 | |
| | 3 | | 0.003516 | 6.9 | 6.6 | |
| | 4 | | 0 | | | |
| | 5 | | 0 | | | |
| | 6 | | 0.004739 | 6.8 | 6.5 | |
| | 7 | | 0.006444 | 6.5 | 6.2 | |
| | 8 | | 0.003610 | 6.4 | 6.3 | |
| | 9 | | 0.006388 | 6.6 | 6.4 | 6.3 |
| | 10 | | 0.003909 | 6.9 | 6.5 | |
| | 11 | | 0 | | | |
| | 12 | | 0 | | | |
| | 13 | | 0 | | | |
| | 14 | | 0.008759 | 7.1 | 6.6 | |
| | 15 | | 0.003935 | 6.9 | 6.7 | |
| | 16 | | 0.006926 | 8.9 | 6.1 | |
| | 17 | | 0.004089 | 8.9 | 7.9 | |
| | 18 | | 0 | | | |
| | 19 | | 0 | | | |
| | 20 | | 0.005454 | 8.0 | 7.1 | 7.6 |
| | 21 | | 0.004883 | 7.6 | 7.0 | |
| | 22 | 0.098 | 0.005208 | 7.8 | 6.9 | |
| | 23 | | 0.004348 | 8.9 | 7.0 | |
| | 24 | | 0.002791 | 8.9 | 7.3 | |
| | 25 | | 0 | | | |
| | 26 | | 0 | | | |
| | 27 | | 0.006453 | 6.5 | 6.3 | 8.1 |
| | 28 | | 0.005184 | 6.5 | 6.4 | |
| | 29 | | 0.005138 | 6.5 | 6.2 | |
| | 30 | | 0 | | | |
| | 31 | | | | | |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| **Summary Values** | **Monthly Avg** | 0.098 | 0.003376567 | 7.3 | 6.635 | 7.333333333 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.098 | 0.008759 | 8.9 | 7.9 | 8.1 |
| | **Daily Min** | 0.098 | 0 | 6.4 | 6.1 | 6.3 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | 680 0 |
| | **Daily Min** | | | | 6 0 | |
| **QA/QC Information** | **LOD** | 0.079 | | | | 2.1 |
| | **LOQ** | 0.5 | | | | 5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | 999580010 | | | | 999580010 |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 003 | 003 | 003 | 003 | 003 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 35 | 457 | 280 | 231 | 112 |
| | **Description** | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable | Hardness, Total as CaCO3 | Chlorine, Total Residual |
| | **Units** | lbs/day | mg/L | ng/L | mg/L | ug/L |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | **Frequency** | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | 0.000336 | | | | |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | | | | | |
| | **13** | | | | | |
| | **14** | | | | | |
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| | **16** | | | | | |
| | **17** | | | | | |
| | **18** | | | | | |
| | **19** | | | | | |
| | **20** | 0.000346 | <1.9 | | 1.8 | |
| | **21** | | | | | |
| | **22** | | | 1.6 | | <1.0 |
| | **23** | | | | | |
| | **24** | | | | | |
| | **25** | | | | | |
| | **26** | | | | | |
| | **27** | 0.000436 | | | | |
| | **28** | | | | | |
| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

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| | **Sample Point** | 003 | | 003 | | 003 | | 003 | | 003 | |
| | **Description** | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | |
| | **Parameter** | 35 | | 457 | | 280 | | 231 | | 112 | |
| | **Description** | Arsenic, Total Recoverable | | Suspended Solids, Total | | Mercury, Total Recoverable | | Hardness, Total as CaCO3 | | Chlorine, Total Residual | |
| | **Units** | lbs/day | | mg/L | | ng/L | | mg/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.000372667 | | 0 | | 1.6 | | 1.8 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.000436 | | <1.9 | | 1.6 | | 1.8 | | <1 | |
| | **Daily Min** | 0.000336 | | <1.9 | | 1.6 | | 1.8 | | <1 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | 38 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.23 | 0 | | | 24 | 0 | | | 38 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | 0.079 | | | | 30 | |
| | **LOQ** | | | | | 0.5 | | | | 100 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | 999580010 | | 999580010 | | | |

| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| | Sample Type | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | CONTINUOUS | CONTINUOUS |
| | Frequency | WEEKLY | WEEKLY | WEEKLY | DAILY | DAILY |
| Sample Results | Day 1 | 1.6 | <0.51 | 0.009792 | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | 2.7 | <0.51 | 0.012347 | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
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| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | 4.9 | <0.52 | 0.010749 | | |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | 2.4 | <0.47 | 0.011495 | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| **Summary Values** | **Monthly Avg** | 2.9 | 0 | 0.01109575 | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 4.9 | <0.52 | 0.012347 | | |
| | **Daily Min** | 1.6 | <0.47 | 0.009792 | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | 9 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | 0.74 | 0.47 | | | |
| | **LOQ** | 1.9 | 1.9 | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 374 | 112 | 35 | 35 | 280 |
| | **Description** | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | **Units** | su | ug/L | ug/L | lbs/day | ng/L |
| | **Sample Type** | CONTINUOUS | GRAB | 24 HR FLOW PROP | CALCULATED | GRAB |
| | **Frequency** | DAILY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 374 | 112 | 35 | 35 | 280 |
| | **Description** | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | **Units** | su | ug/L | ug/L | lbs/day | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 38 | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 38 | 194 | 0.22 | 18 |
| | **Daily Min** | 6 | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 57 | | 69 | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 57 | 0.23 | 69 | 0.28 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 315 | 315 | 553 | 553 | 152 |
| | **Description** | Nickel, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable | Zinc, Total Recoverable | Cyanide, Amenable |
| | **Units** | ug/L | lbs/day | ug/L | lbs/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | | 004 | | 004 | | 004 | | 004 | |
| | **Description** | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | |
| | **Parameter** | 315 | | 315 | | 553 | | 553 | | 152 | |
| | **Description** | Nickel, Total Recoverable | | Nickel, Total Recoverable | | Zinc, Total Recoverable | | Zinc, Total Recoverable | | Cyanide, Amenable | |
| | **Units** | ug/L | | lbs/day | | ug/L | | lbs/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | | | | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2000 | | | | 520 | | | | 92 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2000 | | 8.10 | | 520 | | 2.10 | | 92 | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | | | | | | | | | | |
| | **Lab Certification** | | | | | | | | | | |

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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 152 | 231 | 480 | 1352 | 1353 |
| | **Description** | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | **Units** | lbs/day | mg/L | degF | ng/L | ng/L |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | WEEKLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 152 | 231 | 480 | 1352 | 1353 |
| | **Description** | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | **Units** | lbs/day | mg/L | degF | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | 11 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.37 | | | | 11 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | WEEKLY |
| Sample Results | Day 1 | | | | | |
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| | 13 | | | | | |
| | 14 | | | | | |
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| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2.10 | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | 500 | 0.17 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | |
| | **2** | | | | |
| | **3** | | | | |
| | **4** | | | | |
| | **5** | | | | |
| | **6** | | | | |
| | **7** | | | | |
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| | **19** | | | | |
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| | **22** | | | | |
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| | **26** | | | | |
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| | **28** | | | | |
| | **29** | | | | |
| | **30** | | | | |
| | **31** | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | | | | |
| | **Daily Min** | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | 24 | | | |
| | **Daily Min** | | | | |
| **QA/QC Information** | **LOD** | | | | |
| | **LOQ** | | | | |
| | **QC Exceedance** | | | | |
| | **Lab Certification** | | | | |

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

General Remarks

For the first week at OF003 the Arsenic test was missed. I was not here and the person taking care of it missed it.

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 7/15/2022 7:35:41 AM

**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: 715-735-7415
Reporting Period: 07/01/2022 - 07/31/2022
Form Due Date: 08/21/2022
Permit Number: 0001040

| | |
|---|---|
| Date Received: | |
| DOC: | 498800 |
| FIN: | 7245 |
| FID: | 438039470 |
| Region: | Northeast Region |
| Permit Drafter: | Jason R Knutson |
| Reviewer: | Laura A Gerold |
| Office: | Green Bay |

| | Sample Point | 703 | 001 | 001 | 703 | 001 |
|---|---|---|---|---|---|---|
| | Description | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | Parameter | 211 | 211 | 373 | 35 | 374 |
| | Description | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | Units | gpd | MGD | su | ug/L | su |
| | Sample Type | TOT DAILY | CONTINUOUS | CONTINUOUS | GRAB | CONTINUOUS |
| | Frequency | DAILY | DAILY | DAILY | MONTHLY | DAILY |
| Sample Results | Day 1 | | 0.10360 | 7.8 | | 7.5 |
| | 2 | | 0.06420 | 7.8 | | 7.7 |
| | 3 | | 0.06540 | 7.9 | | 7.7 |
| | 4 | | 0.14740 | 7.8 | | 6.9 |
| | 5 | | 0.13520 | 7.6 | | 6.9 |
| | 6 | | 0.13840 | 7.4 | | 7.0 |
| | 7 | | 0.14660 | 7.1 | | 6.8 |
| | 8 | | 0.11480 | 7.3 | | 6.9 |
| | 9 | | 0.09310 | 7.4 | | 7.2 |
| | 10 | | 0.11070 | 7.5 | | 7.0 |
| | 11 | | 0.12480 | 7.1 | | 6.9 |
| | 12 | | 0.14580 | 7.3 | | 6.9 |
| | 13 | | 0.12790 | 7.4 | | 7.2 |
| | 14 | | 0.12220 | 7.2 | | 7.0 |
| | 15 | | 0.06840 | 7.9 | | 7.1 |
| | 16 | | 0.05270 | 7.5 | | 7.1 |
| | 17 | | 0.08030 | 7.6 | | 7.1 |
| | 18 | | 0.12740 | 7.2 | | 6.9 |
| | 19 | | 0.13780 | 7.5 | | 6.9 |
| | 20 | | 0.13280 | 7.2 | | 7.0 |
| | 21 | | 0.13140 | 7.9 | | 7.1 |
| | 22 | | 0.05820 | 7.4 | | 7.0 |
| | 23 | | 0.02510 | 7.7 | | 7.5 |
| | 24 | | 0.03840 | 7.8 | | 7.4 |
| | 25 | | 0.11670 | 7.6 | | 7.2 |
| | 26 | | 0.12940 | 7.3 | | 6.9 |
| | 27 | | 0.13690 | 7.3 | | 6.9 |
| | 28 | | 0.13840 | 7.6 | | 6.9 |
| | 29 | | 0.09100 | 7.8 | | 7.2 |
| | 30 | | 0.06840 | 7.9 | | 7.8 |
| | 31 | | 0.28730 | 8.2 | | 7.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 703 | 001 | 001 | 703 | 001 |
| | **Description** | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | **Parameter** | 211 | 211 | 373 | 35 | 374 |
| | **Description** | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | **Units** | gpd | MGD | su | ug/L | su |
| **Summary Values** | **Monthly Avg** | | 0.111635484 | 7.548387097 | | 7.132258065 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 0.2873 | 8.2 | | 7.8 |
| | **Daily Min** | | 0.0251 | 7.1 | | 6.8 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | |
| | **Daily Min** | | | | | 6 0 |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 480 | 231 | 35 | 35 | 87 |
| | Description | Temperature Maximum | Hardness, Total as CaCO3 | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Cadmium, Total Recoverable |
| | Units | degF | mg/L | ug/L | lbs/day | ug/L |
| | Sample Type | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | Frequency | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | 72 | | | | |
| | 2 | 67 | | | | |
| | 3 | 68 | | | | |
| | 4 | 71 | | | | |
| | 5 | 72 | | | | |
| | 6 | 73 | | | | |
| | 7 | 75 | | | | |
| | 8 | 74 | | | | |
| | 9 | 69 | | | | |
| | 10 | 69 | | | | |
| | 11 | 77 | | | | |
| | 12 | 77 | 30 | 70 | 0.0854 | <0.49 |
| | 13 | 76 | | | | |
| | 14 | 75 | | | | |
| | 15 | 72 | | | | |
| | 16 | 73 | | | | |
| | 17 | 74 | | | | |
| | 18 | 78 | | | | |
| | 19 | 79 | | | | |
| | 20 | 77 | | | | |
| | 21 | 76 | | | | |
| | 22 | 71 | | | | |
| | 23 | 73 | | | | |
| | 24 | 73 | | | | |
| | 25 | 75 | | | | |
| | 26 | 77 | | | | |
| | 27 | 76 | | | | |
| | 28 | 75 | | | | |
| | 29 | 73 | | | | |
| | 30 | 71 | | | | |
| | 31 | 71 | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 480 | 231 | 35 | 35 | 87 |
| | Description | Temperature Maximum | Hardness, Total as CaCO3 | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Cadmium, Total Recoverable |
| | Units | degF | mg/L | ug/L | lbs/day | ug/L |
| **Summary Values** | **Monthly Avg** | 73.516129032 | 30 | 70 | 0.0854 | 0 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 79 | 30 | 70 | 0.0854 | <0.49 |
| | **Daily Min** | 67 | 30 | 70 | 0.0854 | <0.49 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | 57 0 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 170 0 | 0.81 0 | 57 0 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | 2.1 | | 0.49 |
| | **LOQ** | | | 5 | | 1 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | 999580010 | 999580010 | | 999580010 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 001 | 001 | 001 | 001 | 001 |
| | **Description** | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | **Parameter** | 87 | 147 | 147 | 152 | 152 |
| | **Description** | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable | Cyanide, Amenable | Cyanide, Amenable |
| | **Units** | lbs/day | ug/L | lbs/day | ug/L | lbs/day |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | | | | | |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | 0.0005978 | 18 | 0.02196 | 3.8 | 0.004636 |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | | | | | |
| | **16** | | | | | |
| | **17** | | | | | |
| | **18** | | | | | |
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| | **20** | | | | | |
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| | **24** | | | | | |
| | **25** | | | | | |
| | **26** | | | | | |
| | **27** | | | | | |
| | **28** | | | | | |
| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

| | Sample Point | 001 | | 001 | | 001 | | 001 | | 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | |
| | Parameter | 87 | | 147 | | 147 | | 152 | | 152 | |
| | Description | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Copper, Total Recoverable | | Cyanide, Amenable | | Cyanide, Amenable | |
| | Units | lbs/day | | ug/L | | lbs/day | | ug/L | | lbs/day | |
| **Summary Values** | **Monthly Avg** | 0.0005978 | | 18 | | 0.02196 | | 3.8 | | 0.004636 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.0005978 | | 18 | | 0.02196 | | 3.8 | | 0.004636 | |
| | **Daily Min** | 0.0005978 | | 18 | | 0.02196 | | 3.8 | | 0.004636 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | 69 | 0 | | | 92 | 0 | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.27 | 0 | 69 | 0 | 0.98 | 0 | 92 | 0 | 0.44 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.7 | | | | 3.6 | | | |
| | **LOQ** | | | 5 | | | | 5 | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | | | 999580010 | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 112 | 280 | 1352 | 1353 | 1353 |
| | Description | Chlorine, Total Residual | Mercury, Total Recoverable | PFOA | PFOS | PFOS |
| | Units | ug/L | ng/L | ng/L | ng/L | mg/day |
| | Sample Type | GRAB | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | 150 | 20 | 1.10516 |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | 0.96 | | | |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | | | | | |
| | 25 | | | | | |
| | 26 | 10 | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 112 | 280 | 1352 | 1353 | 1353 |
| | Description | Chlorine, Total Residual | Mercury, Total Recoverable | PFOA | PFOS | PFOS |
| | Units | ug/L | ng/L | ng/L | ng/L | mg/day |
| **Summary Values** | Monthly Avg | 10 | 0.96 | 150 | 20 | 1.10516 |
| | Monthly Total | | | | | |
| | Daily Max | 10 | 0.96 | 150 | 20 | 1.10516 |
| | Daily Min | 10 | 0.96 | 150 | 20 | 1.10516 |
| **Limit(s) in Effect** | Monthly Avg | 38 0 | | | | |
| | Monthly Total | | | | | |
| | Daily Max | 38 0 | 29 0 | | | |
| | Daily Min | | | | | |
| **QA/QC Information** | LOD | 30 | 0.079 | 0.74 | 0.47 | |
| | LOQ | 100 | 0.5 | 1.7 | 1.7 | |
| | QC Exceedance | N | N | N | N | N |
| | Lab Certification | | 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** | 211 | 373 | 374 | 379 | 376 |
| | **Description** | Flow Rate | pH (Maximum) | pH (Minimum) | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
| | **Units** | MGD | su | su | minutes | Number |
| | **Sample Type** | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS |
| | **Frequency** | DAILY | DAILY | DAILY | DAILY | DAILY |
| **Sample Results** | **Day 1** | 0.01614 | 7.4 | 6.3 | | |
| | **2** | 0 | | | | |
| | **3** | 0 | | | | |
| | **4** | 0 | | | | |
| | **5** | 0.04243 | 7.4 | 6.4 | | |
| | **6** | 0.03275 | 7.8 | 6.2 | | |
| | **7** | 0.03731 | 7.7 | 6.3 | | |
| | **8** | 0.01734 | 7.0 | 6.2 | | |
| | **9** | 0 | | | | |
| | **10** | 0 | | | | |
| | **11** | 0.04882 | 7.6 | 6.4 | | |
| | **12** | 0.04673 | 7.6 | 6.4 | | |
| | **13** | 0.03710 | 7.7 | 6.3 | | |
| | **14** | 0.02921 | 7.4 | 6.4 | | |
| | **15** | 0.00763 | 7.5 | 6.2 | | |
| | **16** | 0 | | | | |
| | **17** | 0 | | | | |
| | **18** | 0.04474 | 7.6 | 6.5 | | |
| | **19** | 0.04333 | 7.2 | 6.3 | | |
| | **20** | 0.04161 | 7.2 | 6.2 | | |
| | **21** | 0.02885 | 8.4 | 6.3 | | |
| | **22** | 0.00639 | 7.9 | 6.2 | | |
| | **23** | 0 | | | | |
| | **24** | 0 | | | | |
| | **25** | 0.04019 | 7.4 | 6.6 | | |
| | **26** | 0.04052 | 7.4 | 6.6 | | |
| | **27** | 0.03953 | 7.6 | 6.2 | | |
| | **28** | 0.03773 | 6.9 | 6.1 | | |
| | **29** | 0.01338 | 8.7 | 6.1 | | |
| | **30** | 0 | | | | |
| | **31** | 0 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 211 | | 373 | | 374 | | 379 | | 376 | |
| | **Description** | Flow Rate | | pH (Maximum) | | pH (Minimum) | | pH Total Exceedance Time Minutes | | pH Exceedances Greater Than 60 Minutes | |
| | **Units** | MGD | | su | | su | | minutes | | Number | |
| **Summary Values** | **Monthly Avg** | 0.021023548 | | 7.57 | | 6.31 | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.04882 | | 8.7 | | 6.6 | | | | | |
| | **Daily Min** | 0 | | 6.9 | | 6.1 | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | 446 | 0 | 0 | 0 |
| | **Daily Max** | | | 9 | 0 | | | | | | |
| | **Daily Min** | | | | | 6 | 0 | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | 101 | 101 | 101 | 101 |
| | **Description** | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
| | **Parameter** | 457 | 651 | 87 | 147 | 315 |
| | **Description** | Suspended Solids, Total | Oil & Grease (Hexane) | Cadmium, Total Recoverable | Copper, Total Recoverable | Nickel, Total Recoverable |
| | **Units** | mg/L | mg/L | ug/L | ug/L | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | 3/WEEK | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | 3.0 | | | | |
| | **6** | <1.9 | | | | |
| | **7** | 2.0 | | | | |
| | **8** | | | | | |
| | **9** | | | | | |
| | **10** | | | | | |
| | **11** | <1.9 | | | | |
| | **12** | <1.9 | | <0.49 | 5.6 | 3.6 |
| | **13** | <1.9 | <1.6 | | | |
| | **14** | | | | | |
| | **15** | | | | | |
| | **16** | | | | | |
| | **17** | | | | | |
| | **18** | 2.2 | | | | |
| | **19** | <1.9 | | | | |
| | **20** | <1.9 | | | | |
| | **21** | | | | | |
| | **22** | | | | | |
| | **23** | | | | | |
| | **24** | | | | | |
| | **25** | 3.0 | | | | |
| | **26** | <1.9 | | | | |
| | **27** | <1.9 | | | | |
| | **28** | | | | | |
| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 457 | | 651 | | 87 | | 147 | | 315 | |
| | **Description** | Suspended Solids, Total | | Oil & Grease (Hexane) | | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Nickel, Total Recoverable | |
| | **Units** | mg/L | | mg/L | | ug/L | | ug/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.85 | | 0 | | 0 | | 5.6 | | 3.6 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 3 | | <1.6 | | <0.49 | | 5.6 | | 3.6 | |
| | **Daily Min** | <1.9 | | <1.6 | | <0.49 | | 5.6 | | 3.6 | |
| **Limit(s) in Effect** | **Monthly Avg** | 31 | 0 | 26 | 0 | 260 | 0 | 2070 | 0 | 2380 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 60 | 0 | 52 | 0 | 690 | 0 | 3380 | 0 | 3980 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.6 | | 0.49 | | 1.7 | | 1.5 | |
| | **LOQ** | | | 6.1 | | 1 | | 5 | | 5 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | 999580010 | | 999580010 | | 999580010 | | 999580010 | | 999580010 | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | 101 | 101 | 101 | 101 |
| | **Description** | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
| | **Parameter** | 553 | 507 | 280 | 280 | 35 |
| | **Description** | Zinc, Total Recoverable | Total Toxic Organics | Mercury, Total Recoverable | Mercury, Total Recoverable | Arsenic, Total Recoverable |
| | **Units** | ug/L | ug/L | ng/L | mg/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | | | | | |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | 72 | | | | <2.1 |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | | | | | |
| | **16** | | | | | |
| | **17** | | | | | |
| | **18** | | | | | |
| | **19** | | | | | |
| | **20** | | | 0.23 | 0.03627 | |
| | **21** | | | | | |
| | **22** | | | | | |
| | **23** | | | | | |
| | **24** | | | | | |
| | **25** | | | | | |
| | **26** | | | | | |
| | **27** | | | | | |
| | **28** | | | | | |
| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 553 | | 507 | | 280 | | 280 | | 35 | |
| | **Description** | Zinc, Total Recoverable | | Total Toxic Organics | | Mercury, Total Recoverable | | Mercury, Total Recoverable | | Arsenic, Total Recoverable | |
| | **Units** | ug/L | | ug/L | | ng/L | | mg/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | 72 | | | | 0.23 | | 0.03627 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 72 | | | | 0.23 | | 0.03627 | | <2.1 | |
| | **Daily Min** | 72 | | | | 0.23 | | 0.03627 | | <2.1 | |
| **Limit(s) in Effect** | **Monthly Avg** | 1480 | 0 | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2610 | 0 | 2130 | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | 3.6 | | | | 0.079 | | | | 2.1 | |
| | **LOQ** | 10 | | | | 0.5 | | | | 5 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | 999580010 | | | | 999580010 | | | | 999580010 | |

| | Sample Point | 101 | 704 | 704 | 704 | 704 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | Parameter | 35 | 211 | 35 | 457 | 280 |
| | Description | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | Units | lbs/day | gpd | ug/L | mg/L | ng/L |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | MONTHLY |
| Sample Results | Day 1 | | 5802 | | | |
| | 2 | | 0 | | | |
| | 3 | | 0 | | | |
| | 4 | | 0 | | | |
| | 5 | | 0 | | | |
| | 6 | | 9549 | 3500 | 22 | |
| | 7 | | 3390 | | | |
| | 8 | | 11078 | | | |
| | 9 | | 0 | | | |
| | 10 | | 0 | | | |
| | 11 | | 5643 | | | |
| | 12 | 0.000819 | 5929 | 1800 | 24 | |
| | 13 | | 4955 | | | |
| | 14 | | 10122 | | | |
| | 15 | | 5527 | | | |
| | 16 | | 0 | | | |
| | 17 | | 0 | | | |
| | 18 | | 0 | | | |
| | 19 | | 7219 | 2400 | 35 | |
| | 20 | | 6097 | | | 0.90 |
| | 21 | | 6807 | | | |
| | 22 | | 5511 | | | |
| | 23 | | 0 | | | |
| | 24 | | 0 | | | |
| | 25 | | 422 | 1800 | 43 | |
| | 26 | | 9548 | | | |
| | 27 | | 0 | | | |
| | 28 | | 7201 | | | |
| | 29 | | 8125 | | | |
| | 30 | | 0 | | | |
| | 31 | | 0 | | | |

| | Sample Point | 101 | 704 | 704 | 704 | 704 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | Parameter | 35 | 211 | 35 | 457 | 280 |
| | Description | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | Units | lbs/day | gpd | ug/L | mg/L | ng/L |
| **Summary Values** | **Monthly Avg** | 0.000819 | 3642.741935484 | 2375 | 31 | 0.9 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.000819 | 11078 | 3500 | 43 | 0.9 |
| | **Daily Min** | 0.000819 | 0 | 1800 | 22 | 0.9 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | 10 | | 0.079 |
| | **LOQ** | | | 25 | | 0.5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | 999580010 | 999580010 | 999580010 |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| | Sample Type | BLANK | CONTINUOUS | CONTINUOUS | CONTINUOUS | 24 HR FLOW PROP |
| | Frequency | MONTHLY | DAILY | DAILY | DAILY | WEEKLY |
| Sample Results | Day 1 | | 0.004775 | 6.5 | 6.4 | |
| | 2 | | 0 | | | |
| | 3 | | 0 | | | |
| | 4 | | 0 | | | |
| | 5 | | 0 | | | |
| | 6 | | 0.005532 | 6.8 | 6.4 | 17 |
| | 7 | | 0.003864 | 7.2 | 6.7 | |
| | 8 | | 0.005435 | 8.2 | 7.0 | |
| | 9 | | 0 | | | |
| | 10 | | 0 | | | |
| | 11 | | 0.005163 | 8.2 | 7.2 | |
| | 12 | | 0.004038 | 8.8 | 7.7 | <2.1 |
| | 13 | | 0.003952 | 7.8 | 7.2 | |
| | 14 | | 0.006469 | 8.2 | 7.6 | |
| | 15 | | 0.003553 | 7.4 | 6.8 | |
| | 16 | | 0 | | | |
| | 17 | | 0 | | | |
| | 18 | | 0 | | | |
| | 19 | | 0.004957 | 7.4 | 7.2 | <2.1 |
| | 20 | 0.083 | 0.005704 | 7.3 | 7.1 | |
| | 21 | | 0.004384 | 7.1 | 6.9 | |
| | 22 | | 0.004055 | 7.0 | 6.9 | |
| | 23 | | 0 | | | |
| | 24 | | 0 | | | |
| | 25 | | 0.002158 | 6.9 | 6.8 | <2.1 |
| | 26 | | 0.008620 | 8.2 | 6.7 | |
| | 27 | | 0 | | | |
| | 28 | | 0.005146 | 8.7 | 6.8 | |
| | 29 | | 0.005772 | 8.9 | 7.7 | |
| | 30 | | 0 | | | |
| | 31 | | 0 | | | |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| **Summary Values** | **Monthly Avg** | 0.083 | 0.002696032 | 7.682352941 | 7.005882353 | 4.25 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.083 | 0.00862 | 8.9 | 7.7 | 17 |
| | **Daily Min** | 0.083 | 0 | 6.5 | 6.4 | <2.1 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | 680 0 |
| | **Daily Min** | | | | 6 0 | |
| **QA/QC Information** | **LOD** | 0.079 | | | | 2.1 |
| | **LOQ** | 0.5 | | | | 5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | 999580010 | | | | 999580010 |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 003 | 003 | 003 | 003 | 003 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 35 | 457 | 280 | 231 | 112 |
| | **Description** | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable | Hardness, Total as CaCO3 | Chlorine, Total Residual |
| | **Units** | lbs/day | mg/L | ng/L | mg/L | ug/L |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | **Frequency** | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | 0.0007837 | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | | | | | |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | 0.00007077 | <1.9 | | 0.086 | |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | | | | | |
| | **16** | | | | | |
| | **17** | | | | | |
| | **18** | | | | | |
| | **19** | 0.00008673 | | | | |
| | **20** | | | 0.20 | | |
| | **21** | | | | | |
| | **22** | | | | | |
| | **23** | | | | | |
| | **24** | | | | | |
| | **25** | 0.0000378 | | | | |
| | **26** | | | | | |
| | **27** | | | | | <10 |
| | **28** | | | | | |
| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 003 | | 003 | | 003 | | 003 | | 003 | |
| | **Description** | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | |
| | **Parameter** | 35 | | 457 | | 280 | | 231 | | 112 | |
| | **Description** | Arsenic, Total Recoverable | | Suspended Solids, Total | | Mercury, Total Recoverable | | Hardness, Total as CaCO3 | | Chlorine, Total Residual | |
| | **Units** | lbs/day | | mg/L | | ng/L | | mg/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.00024475 | | 0 | | 0.2 | | 0.086 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.0007837 | | <1.9 | | 0.2 | | 0.086 | | <10 | |
| | **Daily Min** | 3.78E-05 | | <1.9 | | 0.2 | | 0.086 | | <10 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | 38 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.23 | 0 | | | 24 | 0 | | | 38 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | 0.079 | | | | 30 | |
| | **LOQ** | | | | | 0.5 | | | | 100 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | 999580010 | | 999580010 | | | |

| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| | Sample Type | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | CONTINUOUS | CONTINUOUS |
| | Frequency | WEEKLY | WEEKLY | WEEKLY | DAILY | DAILY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | 6.2 | <0.45 | 0.0094347 | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | 1.1 | <0.46 | 0.00703984 | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | 2.3 | <0.49 | 0.00920563 | | |
| | 20 | | | | | |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | | | | | |
| | 25 | 2.1 | <0.46 | 0.00376234 | | |
| | 26 | | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| **Summary Values** | **Monthly Avg** | 2.925 | 0 | 0.007360628 | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 6.2 | <0.49 | 0.0094347 | | |
| | **Daily Min** | 1.1 | <0.45 | 0.00376234 | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | 9 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | 0.72 | 0.46 | | | |
| | **LOQ** | 1.7 | 1.7 | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

| | Sample Point | 004 | 004 | 004 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 374 | 112 | 35 | 35 | 280 |
| | Description | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | Units | su | ug/L | ug/L | lbs/day | ng/L |
| | Sample Type | CONTINUOUS | GRAB | 24 HR FLOW PROP | CALCULATED | GRAB |
| | Frequency | DAILY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
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| | 12 | | | | | |
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| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 374 | 112 | 35 | 35 | 280 |
| | **Description** | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | **Units** | su | ug/L | ug/L | lbs/day | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 38 | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 38 | 194 | 0.22 | 18 |
| | **Daily Min** | 6 | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
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| | **29** | | | | | |
| | **30** | | | | | |
| | **31** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 57 | | 69 | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 57 | 0.23 | 69 | 0.28 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 315 | 315 | 553 | 553 | 152 |
| | **Description** | Nickel, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable | Zinc, Total Recoverable | Cyanide, Amenable |
| | **Units** | ug/L | lbs/day | ug/L | lbs/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | | 004 | | 004 | | 004 | | 004 | |
| | **Description** | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | |
| | **Parameter** | 315 | | 315 | | 553 | | 553 | | 152 | |
| | **Description** | Nickel, Total Recoverable | | Nickel, Total Recoverable | | Zinc, Total Recoverable | | Zinc, Total Recoverable | | Cyanide, Amenable | |
| | **Units** | ug/L | | lbs/day | | ug/L | | lbs/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | | | | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2000 | | | | 520 | | | | 92 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2000 | | 8.10 | | 520 | | 2.10 | | 92 | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | | | | | | | | | | |
| | **Lab Certification** | | | | | | | | | | |

| | Sample Point | 004 | 004 | 004 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 152 | 231 | 480 | 1352 | 1353 |
| | Description | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | Units | lbs/day | mg/L | degF | ng/L | ng/L |
| | Sample Type | CALCULATED | 24 HR FLOW PROP | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | Frequency | MONTHLY | MONTHLY | WEEKLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 152 | 231 | 480 | 1352 | 1353 |
| | **Description** | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | **Units** | lbs/day | mg/L | degF | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | 11 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.37 | | | | 11 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | WEEKLY |
| Sample Results | Day 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
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| | 31 | | | | | |

| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2.10 | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | 500 | 0.17 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | |
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|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | | | | |
| | **Daily Min** | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | 24 | | | |
| | **Daily Min** | | | | |
| **QA/QC Information** | **LOD** | | | | |
| | **LOQ** | | | | |
| | **QC Exceedance** | | | | |
| | **Lab Certification** | | | | |

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

General Remarks

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 8/24/2022 12:01:09 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: 715-735-7415
Reporting Period: 08/01/2022 - 08/31/2022
Form Due Date: 09/21/2022
Permit Number: 0001040

| | |
|---|---|
| Date Received: | |
| DOC: | 498801 |
| FIN: | 7245 |
| FID: | 438039470 |
| Region: | Northeast Region |
| Permit Drafter: | Jason R Knutson |
| Reviewer: | Laura A Gerold |
| Office: | Green Bay |

| | Sample Point | 703 | 001 | 001 | 703 | 001 |
|---|---|---|---|---|---|---|
| | Description | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | Parameter | 211 | 211 | 373 | 35 | 374 |
| | Description | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | Units | gpd | MGD | su | ug/L | su |
| | Sample Type | TOT DAILY | CONTINUOUS | CONTINUOUS | GRAB | CONTINUOUS |
| | Frequency | DAILY | DAILY | DAILY | MONTHLY | DAILY |
| Sample Results | Day 1 | | 0.132500 | 7.6 | | 7.0 |
| | 2 | | 0.163100 | 7.4 | | 7.0 |
| | 3 | | 0.145900 | 7.2 | | 6.9 |
| | 4 | | 0.133600 | 7.2 | | 7.0 |
| | 5 | | 0.148500 | 7.1 | | 7.0 |
| | 6 | | 0.117700 | 7.5 | | 6.6 |
| | 7 | | 0.199400 | 7.5 | | 6.4 |
| | 8 | | 0.143800 | 7.4 | | 7.2 |
| | 9 | | 0.137600 | 7.4 | | 7.0 |
| | 10 | | 0.136300 | 7.3 | | 7.0 |
| | 11 | | 0.094700 | 7.3 | | 7.1 |
| | 12 | | 0.148800 | 7.2 | | 7.0 |
| | 13 | | 0.364500 | 7.3 | | 6.9 |
| | 14 | | 0.074800 | 7.5 | | 7.1 |
| | 15 | | 0.117700 | 7.1 | | 7.0 |
| | 16 | | 0.095200 | 7.2 | | 7.1 |
| | 17 | | 0.101800 | 7.2 | | 6.7 |
| | 18 | | 0.158200 | 7.6 | | 6.4 |
| | 19 | | 0.113000 | 8.3 | | 6.4 |
| | 20 | | 0.065000 | 8.1 | | 6.9 |
| | 21 | | 0.077100 | 7.9 | | 7.0 |
| | 22 | | 0.132800 | 7.9 | | 7.2 |
| | 23 | | 0.137600 | 7.9 | | 7.2 |
| | 24 | | 0.222700 | 7.8 | | 7.1 |
| | 25 | | 0.198400 | 7.8 | | 7.3 |
| | 26 | | 0.104900 | 7.5 | | 6.7 |
| | 27 | | 0.068400 | 7.5 | | 6.7 |
| | 28 | | 0.128200 | 7.0 | | 6.5 |
| | 29 | | 0.135900 | 7.6 | | 6.8 |
| | 30 | | 0.139600 | 7.8 | | 7.0 |
| | 31 | | 0.134500 | 7.9 | | 6.8 |

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| | **Sample Point** | 703 | 001 | 001 | 703 | 001 |
| | **Description** | Menominee River Intake | Combined WW to Menominee River | Combined WW to Menominee River | Menominee River Intake | Combined WW to Menominee River |
| | **Parameter** | 211 | 211 | 373 | 35 | 374 |
| | **Description** | Flow Rate | Flow Rate | pH (Maximum) | Arsenic, Total Recoverable | pH (Minimum) |
| | **Units** | gpd | MGD | su | ug/L | su |
| **Summary Values** | **Monthly Avg** | | 0.137812903 | 7.516129032 | | 6.903225806 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 0.3645 | 8.3 | | 7.3 |
| | **Daily Min** | | 0.065 | 7 | | 6.4 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | |
| | **Daily Min** | | | | | 6 0 |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 480 | 231 | 35 | 35 | 87 |
| | Description | Temperature Maximum | Hardness, Total as CaCO3 | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Cadmium, Total Recoverable |
| | Units | degF | mg/L | ug/L | lbs/day | ug/L |
| | Sample Type | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | Frequency | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | 75 | | | | |
| | 2 | 76 | | | | |
| | 3 | 75 | | | | |
| | 4 | 75 | | | | |
| | 5 | 73 | | | | |
| | 6 | 74 | | | | |
| | 7 | 70 | | | | |
| | 8 | 74 | | | | |
| | 9 | 76 | 250 | 56 | 0.0644 | <0.49 |
| | 10 | 76 | | | | |
| | 11 | 77 | | | | |
| | 12 | 76 | | | | |
| | 13 | 69 | | | | |
| | 14 | 71 | | | | |
| | 15 | 76 | | | | |
| | 16 | 76 | | | | |
| | 17 | 80 | | | | |
| | 18 | 80 | | | | |
| | 19 | 77 | | | | |
| | 20 | 74 | | | | |
| | 21 | 74 | | | | |
| | 22 | 79 | | | | |
| | 23 | 78 | | | | |
| | 24 | 80 | | | | |
| | 25 | 76 | | | | |
| | 26 | 76 | | | | |
| | 27 | 74 | | | | |
| | 28 | 74 | | | | |
| | 29 | 79 | | | | |
| | 30 | 77 | | | | |
| | 31 | 78 | | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 480 | 231 | 35 | 35 | 87 |
| | Description | Temperature Maximum | Hardness, Total as CaCO3 | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Cadmium, Total Recoverable |
| | Units | degF | mg/L | ug/L | lbs/day | ug/L |
| **Summary Values** | **Monthly Avg** | 75.64516129 | 250 | 56 | 0.0644 | 0 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 80 | 250 | 56 | 0.0644 | <0.49 |
| | **Daily Min** | 69 | 250 | 56 | 0.0644 | <0.49 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | 57 0 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 170 0 | 0.81 0 | 57 0 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | 2.1 | | 0.49 |
| | **LOQ** | | | 5 | | 1 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | 999580010 | 999580010 | | 999580010 |

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| | **Sample Point** | 001 | 001 | 001 | 001 | 001 |
| | **Description** | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | **Parameter** | 87 | 147 | 147 | 152 | 152 |
| | **Description** | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable | Cyanide, Amenable | Cyanide, Amenable |
| | **Units** | lbs/day | ug/L | lbs/day | ug/L | lbs/day |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | 0.0005635 | 17 | 0.01955 | <3.6 | 0.00414 |
| | **10** | | | | | |
| | **11** | | | | | |
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| | Sample Point | 001 | | 001 | | 001 | | 001 | | 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | |
| | Parameter | 87 | | 147 | | 147 | | 152 | | 152 | |
| | Description | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Copper, Total Recoverable | | Cyanide, Amenable | | Cyanide, Amenable | |
| | Units | lbs/day | | ug/L | | lbs/day | | ug/L | | lbs/day | |
| **Summary Values** | **Monthly Avg** | 0.0005635 | | 17 | | 0.01955 | | 0 | | 0.00414 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.0005635 | | 17 | | 0.01955 | | <3.6 | | 0.00414 | |
| | **Daily Min** | 0.0005635 | | 17 | | 0.01955 | | <3.6 | | 0.00414 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | 69 | 0 | | | 92 | 0 | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.27 | 0 | 69 | 0 | 0.98 | 0 | 92 | 0 | 0.44 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.7 | | | | 3.6 | | | |
| | **LOQ** | | | 5 | | | | 5 | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | | | 999580010 | | | |

| | Sample Point | 001 | 001 | 001 | 001 | 001 |
|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River | Combined WW to Menominee River |
| | Parameter | 112 | 280 | 1352 | 1353 | 1353 |
| | Description | Chlorine, Total Residual | Mercury, Total Recoverable | PFOA | PFOS | PFOS |
| | Units | ug/L | ng/L | ng/L | ng/L | mg/day |
| | Sample Type | GRAB | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
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| | 8 | | | | | |
| | 9 | | | 200 | 25 | 1.30415 |
| | 10 | | | | | |
| | 11 | 10 | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | 1.0 | | | |
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| | 31 | | | | | |

| | Sample Point | 001 | | 001 | | 001 | | 001 | | 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | | Combined WW to Menominee River | |
| | Parameter | 112 | | 280 | | 1352 | | 1353 | | 1353 | |
| | Description | Chlorine, Total Residual | | Mercury, Total Recoverable | | PFOA | | PFOS | | PFOS | |
| | Units | ug/L | | ng/L | | ng/L | | ng/L | | mg/day | |
| **Summary Values** | **Monthly Avg** | 10 | | 1 | | 200 | | 25 | | 1.30415 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 10 | | 1 | | 200 | | 25 | | 1.30415 | |
| | **Daily Min** | 10 | | 1 | | 200 | | 25 | | 1.30415 | |
| **Limit(s) in Effect** | **Monthly Avg** | 38 | 0 | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 38 | 0 | 29 | 0 | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | 30 | | 0.079 | | 0.71 | | 0.45 | | | |
| | **LOQ** | 100 | | 0.5 | | 1.7 | | 1.7 | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 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** | 211 | 373 | 374 | 379 | 376 |
| | **Description** | Flow Rate | pH (Maximum) | pH (Minimum) | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
| | **Units** | MGD | su | su | minutes | Number |
| | **Sample Type** | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS | CONTINUOUS |
| | **Frequency** | DAILY | DAILY | DAILY | DAILY | DAILY |
| **Sample Results** | **Day 1** | 0.048081 | 7.4 | 6.4 | | |
| | **2** | 0.042619 | 7.4 | 6.2 | | |
| | **3** | 0.053178 | 8.0 | 6.1 | | |
| | **4** | 0.037687 | 7.4 | 6.1 | | |
| | **5** | 0.019013 | 7.3 | 6.2 | | |
| | **6** | 0.009075 | 7.4 | 6.5 | | |
| | **7** | 0 | | | | |
| | **8** | 0.061340 | 7.2 | 6.1 | | |
| | **9** | 0.042887 | 8.0 | 6.3 | | |
| | **10** | 0.039023 | 7.2 | 6.1 | | |
| | **11** | 0.024480 | 7.3 | 6.1 | | |
| | **12** | 0.017140 | 7.4 | 6.2 | | |
| | **13** | 0.000304 | | | | |
| | **14** | 0 | | | | |
| | **15** | 0.026762 | 7.2 | 6.1 | | |
| | **16** | 0.021293 | 6.9 | 6.1 | | |
| | **17** | 0.029423 | 7.2 | 6.1 | | |
| | **18** | 0.025094 | 7.4 | 6.1 | | |
| | **19** | 0.018125 | 7.4 | 6.0 | | |
| | **20** | 0 | | | | |
| | **21** | 0 | | | | |
| | **22** | 0.048868 | 7.2 | 6.4 | | |
| | **23** | 0.045785 | 7.8 | 6.1 | | |
| | **24** | 0.026550 | 6.8 | 6.2 | | |
| | **25** | 0.028225 | 7.1 | 6.2 | | |
| | **26** | 0.016421 | 7.4 | 6.3 | | |
| | **27** | 0 | | | | |
| | **28** | 0 | | | | |
| | **29** | 0.050570 | 7.2 | 6.2 | | |
| | **30** | 0.043588 | 7.9 | 6.3 | | |
| | **31** | 0.038179 | 7.6 | 6.1 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | | 101 | | 101 | | 101 | | 101 | |
| | **Description** | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | | Metal Finishing Effluent | |
| | **Parameter** | 211 | | 373 | | 374 | | 379 | | 376 | |
| | **Description** | Flow Rate | | pH (Maximum) | | pH (Minimum) | | pH Total Exceedance Time Minutes | | pH Exceedances Greater Than 60 Minutes | |
| | **Units** | MGD | | su | | su | | minutes | | Number | |
| **Summary Values** | **Monthly Avg** | 0.02624871 | | 7.379166667 | | 6.1875 | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.06134 | | 8 | | 6.5 | | | | | |
| | **Daily Min** | 0 | | 6.8 | | 6 | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | 446 | 0 | 0 | 0 |
| | **Daily Max** | | | 9 | 0 | | | | | | |
| | **Daily Min** | | | | | 6 | 0 | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | 101 | 101 | 101 | 101 |
| | **Description** | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
| | **Parameter** | 457 | 651 | 87 | 147 | 315 |
| | **Description** | Suspended Solids, Total | Oil & Grease (Hexane) | Cadmium, Total Recoverable | Copper, Total Recoverable | Nickel, Total Recoverable |
| | **Units** | mg/L | mg/L | ug/L | ug/L | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | GRAB | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | 3/WEEK | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | <1.9 | | | | |
| | **2** | <1.9 | | | | |
| | **3** | <1.9 | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | <1.9 | | | | |
| | **9** | <1.9 | | <0.49 | 5.4 | 12 |
| | **10** | <1.9 | 1.7 | | | |
| | **11** | | | | | |
| | **12** | | | | | |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | 2.6 | | | | |
| | **16** | 2.0 | | | | |
| | **17** | 2.0 | | | | |
| | **18** | | | | | |
| | **19** | | | | | |
| | **20** | | | | | |
| | **21** | | | | | |
| | **22** | <1.9 | | | | |
| | **23** | <1.9 | | | | |
| | **24** | <1.9 | | | | |
| | **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 | 457 | | 651 | | 87 | | 147 | | 315 | |
| | Description | Suspended Solids, Total | | Oil & Grease (Hexane) | | Cadmium, Total Recoverable | | Copper, Total Recoverable | | Nickel, Total Recoverable | |
| | Units | mg/L | | mg/L | | ug/L | | ug/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.55 | | 1.7 | | 0 | | 5.4 | | 12 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2.6 | | 1.7 | | <0.49 | | 5.4 | | 12 | |
| | **Daily Min** | <1.9 | | 1.7 | | <0.49 | | 5.4 | | 12 | |
| **Limit(s) in Effect** | **Monthly Avg** | 31 | 0 | 26 | 0 | 260 | 0 | 2070 | 0 | 2380 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 60 | 0 | 52 | 0 | 690 | 0 | 3380 | 0 | 3980 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | 1.6 | | 0.49 | | 1.7 | | 1.5 | |
| | **LOQ** | | | 6.1 | | 1 | | 5 | | 5 | |
| | **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** | 553 | 507 | 280 | 280 | 35 |
| | **Description** | Zinc, Total Recoverable | Total Toxic Organics | Mercury, Total Recoverable | Mercury, Total Recoverable | Arsenic, Total Recoverable |
| | **Units** | ug/L | ug/L | ng/L | mg/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
| | **2** | | | | | |
| | **3** | | | | | |
| | **4** | | | | | |
| | **5** | | | | | |
| | **6** | | | | | |
| | **7** | | | | | |
| | **8** | | | | | |
| | **9** | 66 | | | | <2.1 |
| | **10** | | | | | |
| | **11** | | | | | |
| | **12** | | | | | |
| | **13** | | | | | |
| | **14** | | | | | |
| | **15** | | | 0.26 | 0.02637128 | |
| | **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** | 553 | | 507 | | 280 | | 280 | | 35 | |
| | **Description** | Zinc, Total Recoverable | | Total Toxic Organics | | Mercury, Total Recoverable | | Mercury, Total Recoverable | | Arsenic, Total Recoverable | |
| | **Units** | ug/L | | ug/L | | ng/L | | mg/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | 66 | | | | 0.26 | | 0.02637128 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 66 | | | | 0.26 | | 0.02637128 | | <2.1 | |
| | **Daily Min** | 66 | | | | 0.26 | | 0.02637128 | | <2.1 | |
| **Limit(s) in Effect** | **Monthly Avg** | 1480 | 0 | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2610 | 0 | 2130 | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | 3.6 | | | | 0.079 | | | | 2.1 | |
| | **LOQ** | 10 | | | | 0.5 | | | | 5 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | 999580010 | | | | 999580010 | | | | 999580010 | |

| | Sample Point | 101 | 704 | 704 | 704 | 704 |
|---|---|---|---|---|---|---|
| | Description | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | Parameter | 35 | 211 | 35 | 457 | 280 |
| | Description | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | Units | lbs/day | gpd | ug/L | mg/L | ng/L |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | MONTHLY |
| Sample Results | Day 1 | | 7695 | 2200 | 38 | |
| | 2 | | 6900 | | | |
| | 3 | | 1045 | | | |
| | 4 | | 0 | | | |
| | 5 | | 0 | | | |
| | 6 | | 0 | | | |
| | 7 | | 0 | | | |
| | 8 | | 0 | | | |
| | 9 | 0.000756 | 0 | 2700 | 40 | |
| | 10 | | 0 | | | |
| | 11 | | 0 | | | |
| | 12 | | 0 | | | |
| | 13 | | 0 | | | |
| | 14 | | 0 | | | |
| | 15 | | 0 | 3100 | 45 | 3.7 |
| | 16 | | 0 | | | |
| | 17 | | 0 | | | |
| | 18 | | 0 | | | |
| | 19 | | 0 | | | |
| | 20 | | 0 | | | |
| | 21 | | 0 | | | |
| | 22 | | 2089 | | | |
| | 23 | | 0 | | | |
| | 24 | | 5581 | | | |
| | 25 | | 8457 | | | |
| | 26 | | 6602 | | | |
| | 27 | | 0 | | | |
| | 28 | | 0 | | | |
| | 29 | | 6247 | | | |
| | 30 | | 7899 | | | |
| | 31 | | 8433 | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Sample Point** | 101 | 704 | 704 | 704 | 704 |
| | **Description** | Metal Finishing Effluent | GWCTS Influent | GWCTS Influent | GWCTS Influent | GWCTS Influent |
| | **Parameter** | 35 | 211 | 35 | 457 | 280 |
| | **Description** | Arsenic, Total Recoverable | Flow Rate | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable |
| | **Units** | lbs/day | gpd | ug/L | mg/L | ng/L |
| **Summary Values** | **Monthly Avg** | 0.000756 | 1966.064516129 | 2666.666666667 | 41 | 3.7 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.000756 | 8457 | 3100 | 45 | 3.7 |
| | **Daily Min** | 0.000756 | 0 | 2200 | 38 | 3.7 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | 21 | | 0.079 |
| | **LOQ** | | | 50 | | 0.5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | 999580010 | 999580010 | 999580010 |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| | Sample Type | BLANK | CONTINUOUS | CONTINUOUS | CONTINUOUS | 24 HR FLOW PROP |
| | Frequency | MONTHLY | DAILY | DAILY | DAILY | WEEKLY |
| Sample Results | Day 1 | | 0.004677 | 7.5 | 6.7 | <2.1 |
| | 2 | | 0.005466 | 7.2 | 7.0 | |
| | 3 | | 0.005945 | 7.3 | 6.9 | |
| | 4 | | 0.005246 | 8.9 | 7.0 | |
| | 5 | | 0.003370 | 7.8 | 7.2 | |
| | 6 | | 0.001777 | 7.1 | 6.8 | |
| | 7 | | 0 | | | |
| | 8 | | 0.003484 | 8.0 | 6.8 | |
| | 9 | | 0.004682 | 7.8 | 6.9 | 5.9 |
| | 10 | | 0.001728 | 7.9 | 7.0 | |
| | 11 | | 0.005575 | 7.1 | 6.9 | |
| | 12 | | 0.004822 | 8.1 | 7.0 | |
| | 13 | | 0 | | | |
| | 14 | | 0 | | | |
| | 15 | 0.096 | 0.005008 | 6.9 | 6.8 | 6.8 |
| | 16 | | 0.004639 | 6.7 | 6.6 | |
| | 17 | | 0.004672 | 6.7 | 6.6 | |
| | 18 | | 0.003421 | 6.7 | 6.6 | |
| | 19 | | 0.003486 | 6.8 | 6.6 | |
| | 20 | | 0 | | | |
| | 21 | | 0 | | | |
| | 22 | | 0.006980 | 6.9 | 6.8 | |
| | 23 | | 0.003878 | 6.9 | 6.7 | |
| | 24 | | 0.004716 | 6.8 | 6.7 | 8.1 |
| | 25 | | 0.004803 | 7.0 | 6.9 | |
| | 26 | | 0.006823 | 7.1 | 7.0 | |
| | 27 | | 0 | | | |
| | 28 | | 0 | | | |
| | 29 | | 0.004549 | 7.0 | 6.9 | |
| | 30 | | 0.007621 | 6.9 | 6.9 | |
| | 31 | | 0.005348 | 7.1 | 6.9 | |

| | Sample Point | 107 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | Mercury Field Blank Results | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 280 | 211 | 373 | 374 | 35 |
| | Description | Mercury, Total Recoverable | Flow Rate | pH (Maximum) | pH (Minimum) | Arsenic, Total Recoverable |
| | Units | ng/L | MGD | su | su | ug/L |
| **Summary Values** | **Monthly Avg** | 0.096 | 0.003636 | 7.258333333 | 6.841666667 | 5.2 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.096 | 0.007621 | 8.9 | 7.2 | 8.1 |
| | **Daily Min** | 0.096 | 0 | 6.7 | 6.6 | <2.1 |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | 9 0 | | 680 0 |
| | **Daily Min** | | | | 6 0 | |
| **QA/QC Information** | **LOD** | 0.079 | | | | 2.1 |
| | **LOQ** | 0.5 | | | | 5 |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | 999580010 | | | | 999580010 |

| | Sample Point | 003 | 003 | 003 | 003 | 003 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 35 | 457 | 280 | 231 | 112 |
| | Description | Arsenic, Total Recoverable | Suspended Solids, Total | Mercury, Total Recoverable | Hardness, Total as CaCO3 | Chlorine, Total Residual |
| | Units | lbs/day | mg/L | ng/L | mg/L | ug/L |
| | Sample Type | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP | 24 HR FLOW PROP | GRAB |
| | Frequency | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | 0.0000819 | | | 0.55 | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | 0.0002301 | <1.9 | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | 0.00028424 | | 0.24 | | <10 |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | 0.00031833 | | | | |
| | 25 | | | | | |
| | 26 | | | | | |
| | 27 | | | | | |
| | 28 | | | | | |
| | 29 | | | | | |
| | 30 | | | | | |
| | 31 | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Point** | 003 | | 003 | | 003 | | 003 | | 003 | |
| | **Description** | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | | GWCTS Effluent | |
| | **Parameter** | 35 | | 457 | | 280 | | 231 | | 112 | |
| | **Description** | Arsenic, Total Recoverable | | Suspended Solids, Total | | Mercury, Total Recoverable | | Hardness, Total as CaCO3 | | Chlorine, Total Residual | |
| | **Units** | lbs/day | | mg/L | | ng/L | | mg/L | | ug/L | |
| **Summary Values** | **Monthly Avg** | 0.000228643 | | 0 | | 0.24 | | 0.55 | | 0 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.00031833 | | <1.9 | | 0.24 | | 0.55 | | <10 | |
| | **Daily Min** | 8.19E-05 | | <1.9 | | 0.24 | | 0.55 | | <10 | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | | | | | 38 | 0 |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 0.23 | 0 | | | 24 | 0 | | | 38 | 0 |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | 0.079 | | | | 30 | |
| | **LOQ** | | | | | 0.5 | | | | 100 | |
| | **QC Exceedance** | N | | N | | N | | N | | N | |
| | **Lab Certification** | | | 999580010 | | 999580010 | | 999580010 | | | |

| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| | Sample Type | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED | CONTINUOUS | CONTINUOUS |
| | Frequency | WEEKLY | WEEKLY | WEEKLY | DAILY | DAILY |
| Sample Results | Day 1 | 2.1 | <0.46 | 0.00815396 | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | 1.5 | <0.47 | 0.00834015 | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | 3.0 | 0.63 | 0.0119574 | | |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| | 24 | 1.9 | 0.61 | 0.01090314 | | |
| | 25 | | | | | |
| | 26 | | | | | |
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| | Sample Point | 003 | 003 | 003 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 1352 | 1353 | 1353 | 211 | 373 |
| | Description | PFOA | PFOS | PFOS | Flow Rate | pH (Maximum) |
| | Units | ng/L | ng/L | mg/day | MGD | su |
| **Summary Values** | **Monthly Avg** | 2.125 | 0.31 | 0.009838663 | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 3 | 0.63 | 0.0119574 | | |
| | **Daily Min** | 1.5 | <0.46 | 0.00815396 | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | 9 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | 0.71 | 0.45 | | | |
| | **LOQ** | 1.7 | 1.7 | | | |
| | **QC Exceedance** | N | N | N | N | N |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 374 | 112 | 35 | 35 | 280 |
| | **Description** | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | **Units** | su | ug/L | ug/L | lbs/day | ng/L |
| | **Sample Type** | CONTINUOUS | GRAB | 24 HR FLOW PROP | CALCULATED | GRAB |
| | **Frequency** | DAILY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 374 | 112 | 35 | 35 | 280 |
| | **Description** | pH (Minimum) | Chlorine, Total Residual | Arsenic, Total Recoverable | Arsenic, Total Recoverable | Mercury, Total Recoverable |
| | **Units** | su | ug/L | ug/L | lbs/day | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 38 | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 38 | 194 | 0.22 | 18 |
| | **Daily Min** | 6 | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| | **Sample Type** | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 280 | 87 | 87 | 147 | 147 |
| | **Description** | Mercury, Total Recoverable | Cadmium, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable |
| | **Units** | mg/day | ug/L | lbs/day | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | 57 | | 69 | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | 57 | 0.23 | 69 | 0.28 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|---|
| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 315 | 315 | 553 | 553 | 152 |
| | **Description** | Nickel, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable | Zinc, Total Recoverable | Cyanide, Amenable |
| | **Units** | ug/L | lbs/day | ug/L | lbs/day | ug/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | | |
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| | **Sample Point** | 004 | | 004 | | 004 | | 004 | | 004 | |
| | **Description** | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | | Combined Process WW & GW | |
| | **Parameter** | 315 | | 315 | | 553 | | 553 | | 152 | |
| | **Description** | Nickel, Total Recoverable | | Nickel, Total Recoverable | | Zinc, Total Recoverable | | Zinc, Total Recoverable | | Cyanide, Amenable | |
| | **Units** | ug/L | | lbs/day | | ug/L | | lbs/day | | ug/L | |
| **Summary Values** | **Monthly Avg** | | | | | | | | | | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | | | | | | | | | | |
| | **Daily Min** | | | | | | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2000 | | | | 520 | | | | 92 | |
| | **Monthly Total** | | | | | | | | | | |
| | **Daily Max** | 2000 | | 8.10 | | 520 | | 2.10 | | 92 | |
| | **Daily Min** | | | | | | | | | | |
| **QA/QC Information** | **LOD** | | | | | | | | | | |
| | **LOQ** | | | | | | | | | | |
| | **QC Exceedance** | | | | | | | | | | |
| | **Lab Certification** | | | | | | | | | | |

| | Sample Point | 004 | 004 | 004 | 004 | 004 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | Parameter | 152 | 231 | 480 | 1352 | 1353 |
| | Description | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | Units | lbs/day | mg/L | degF | ng/L | ng/L |
| | Sample Type | CALCULATED | 24 HR FLOW PROP | MEASURE | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | Frequency | MONTHLY | MONTHLY | WEEKLY | MONTHLY | MONTHLY |
| Sample Results | Day 1 | | | | | |
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| | **Sample Point** | 004 | 004 | 004 | 004 | 004 |
| | **Description** | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW | Combined Process WW & GW |
| | **Parameter** | 152 | 231 | 480 | 1352 | 1353 |
| | **Description** | Cyanide, Amenable | Hardness, Total as CaCO3 | Temperature Maximum | PFOA | PFOS |
| | **Units** | lbs/day | mg/L | degF | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | | 11 |
| | **Monthly Total** | | | | | |
| | **Daily Max** | 0.37 | | | | 11 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| | Sample Type | CALCULATED | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP | CALCULATED |
| | Frequency | MONTHLY | DAILY | WEEKLY | WEEKLY | WEEKLY |
| Sample Results | Day 1 | | | | | |
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| | Sample Point | 004 | 108 | 108 | 108 | 108 |
|---|---|---|---|---|---|---|
| | Description | Combined Process WW & GW | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | Parameter | 1353 | 211 | 457 | 35 | 35 |
| | Description | PFOS | Flow Rate | Suspended Solids, Total | Arsenic, Total Recoverable | Arsenic, Total Recoverable |
| | Units | mg/day | MGD | mg/L | ug/L | lbs/day |
| **Summary Values** | **Monthly Avg** | | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | | |
| | **Daily Min** | | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | 2.10 | | | | |
| | **Monthly Total** | | | | | |
| | **Daily Max** | | | | 500 | 0.17 |
| | **Daily Min** | | | | | |
| **QA/QC Information** | **LOD** | | | | | |
| | **LOQ** | | | | | |
| | **QC Exceedance** | | | | | |
| | **Lab Certification** | | | | | |

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|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| | **Sample Type** | 24 HR FLOW PROP | CALCULATED | 24 HR FLOW PROP | 24 HR FLOW PROP |
| | **Frequency** | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| **Sample Results** | **Day 1** | | | | |
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|---|---|---|---|---|---|
| | **Sample Point** | 108 | 108 | 108 | 108 |
| | **Description** | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent | GWCTS Effluent |
| | **Parameter** | 280 | 280 | 1352 | 1353 |
| | **Description** | Mercury, Total Recoverable | Mercury, Total Recoverable | PFOA | PFOS |
| | **Units** | ng/L | mg/day | ng/L | ng/L |
| **Summary Values** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | | | | |
| | **Daily Min** | | | | |
| **Limit(s) in Effect** | **Monthly Avg** | | | | |
| | **Monthly Total** | | | | |
| | **Daily Max** | 24 | | | |
| | **Daily Min** | | | | |
| **QA/QC Information** | **LOD** | | | | |
| | **LOQ** | | | | |
| | **QC Exceedance** | | | | |
| | **Lab Certification** | | | | |

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

General Remarks

For the 4th week of sampling we did not have an Arsenic and TSS results for SP704 due to the collection tank being too low so that outside contractors (Endpoint) can send GW water over to B14. The operators needed the tank MT for them.

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 9/20/2022 12:47:30 PM

# WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

## GENERAL INFORMATION

| | | | |
|---|---|---|---|
| FACILITY: | **Tyco Fire Products** | WPDES PERMIT NO.: | WI-0001040-08-0 |
| OUTFALL NO.: | 003 | LABORATORY NAME: | ECT-Superior, WI |
| RECEIVING WATER: | Menominee River | PROJECT # : | 5275 |

## SAMPLE INFORMATION

| SAMPLE NO. | SAMPLE COLLECTION | | | SAMPLE TEMP °C | | pH at LAB | HAND DELIVER? (If Yes, ≤ 4 hr?) | HOLD TIME ≤ 36 HR? | SAMPLE ACCEP-TABLE? |
|---|---|---|---|---|---|---|---|---|---|
| | SAMPLE TYPE | BEGINNING DATE | END DATE | COLLECTION | AT LAB | | | | |
| 1 | EFF-24C | 7/11/2022 | 7/12/2022 | 1.0 | 4.0 | 7.98 | ☐ Yes ☑ No | ☑ Yes ☐ No | ☑ Yes ☐ No |
| 2 | EFF-24C | 7/13/2022 | 7/14/2022 | 1.0 | 2.4 | 7.90 | ☐ Yes ☑ No | ☑ Yes ☐ No | ☑ Yes ☐ No |
| 3 | | | | | | | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| 4 | | | | | | | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |

*Describe any unusual conditions during sampling that may influence test results. (see Part 6.1.2 of the Methods Manual for examples.)*

COMMENTS:

## TEST INFORMATION

| | ACUTE | | |
|---|---|---|---|
| **Date Test Initiated:** | **7/13/2022** | | |
| Tests Are For: | WPDES Compliance (Required by Permit) | | |
| Date of Initial Test: | | | |
| ZID/IWC Info.: | ZID Compliance Concentration = | N/A | |
| Dilution Water: | *C.dubia* | FHM | Other |
| | ☐ RW | ☐ RW | ☐ RW |
| | ☑ LW | ☑ LW | ☐ LW |

## QA/QC CONDITIONS

| | ACUTE |
|---|---|
| Temperatures maintained during test? (20 ± 1°C) | ☑ Yes ☐ No |
| Dissolved oxygen ≥ 4.0 mg/l throughout test? | ☑ Yes ☐ No |
| Effluent pH maintained within 6.0 - 9.0 s.u. throughout test? | ☑ Yes ☐ No |
| Concurrent or monthly reference tests within acceptable limits? | ☑ Yes ☐ No |
| Tests conducted in a carbon dioxide atmosphere throughout test? | ☑ Yes ☐ No |
| Were effluent samples modified prior to testing? (ex. filtration, aeration, chem addition) | ☐ Yes ☑ No |

COMMENTS:

## WATER CHEMISTRY (All values reported in mg/L, except pH)

| SAMPLE TYPE | NO. | HARDNESS | ALKALINITY | TOTAL AMMONIA | pH (after Warming to 20°C) | TOTAL RESIDUAL CHLORINE | Conductivity (after warming to 20°C) |
|---|---|---|---|---|---|---|---|
| Rec.Water | NA | NA | NA | NA | NA | NA | NA |
| Effluent | #1 | ND | 12 | 0.5 | 7.55 | ND | 306 |
| | #2 | ND | 12 | <0.3 | 7.28 | ND | 313 |
| Lab Water | LAB | 44 | 44 | NA | 7.71 | NA | 146 |
| | MHSW | 84 | 60 | NA | 7.86 | NA | 302 |
| | | | | | | | |

COMMENTS: **MHSW was the primary control/ dilution water and LAB water was the secondary control for the acute test.**
**ND=Not Detected**

# WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

## ACUTE TEST CONTROL PERFORMANCE

| Primary Controls | | Secondary Controls | |
|---|---|---|---|
| Fathead Minnow | *Ceriodaphnia dubia* | Fathead Minnow | *Ceriodaphnia dubia* |
| Survival ≥ 90%<br>☑ Yes ☐ No | Survival ≥ 90%<br>☑ Yes ☐ No | Survival ≥ 90%<br>☑ Yes ☐ No | Survival ≥ 90%<br>☑ Yes ☐ No |

COMMENTS:

## ACUTE TEST DATA

| SPECIES | EFFLUENT TREATMENT | Percent Survival By Replicate | | | | Mean Percent Survival |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | |
| Fathead Minnow<br><br>Age of Organism:<br>7 Days | Secondary Control | 100 | 100 | 100 | 100 | 100.0 |
| | Primary Control | 100 | 100 | 100 | 100 | 100.0 |
| | 6.25% | 100 | 100 | 100 | 100 | 100.0 |
| | 12.5% | 100 | 100 | 100 | 100 | 100.0 |
| | 25% | 100 | 100 | 100 | 100 | 100.0 |
| | 50% | 100 | 100 | 90 | 100 | 97.5 |
| | 100% | 100 | 100 | 100 | 100 | 100.0 |

**FATHEAD MINNOW ACUTE RESULTS:** **$LC_{50}$ =** **>100** **C.I.% =** **NA** **$TU_a$ =** **1.0**

*Please describe any unusual behavior and/or appearance of organisms.(see Part 6.1.2 of the Methods Manual for ex.)*

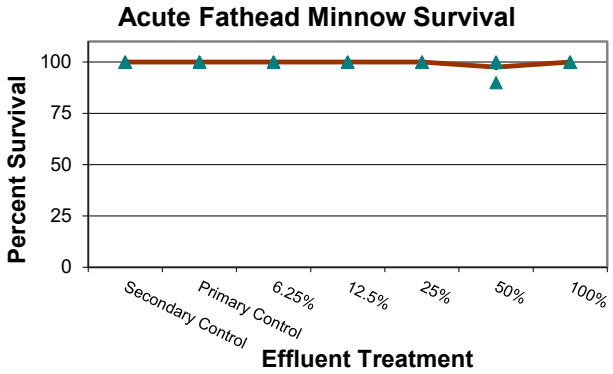
COMMENTS:

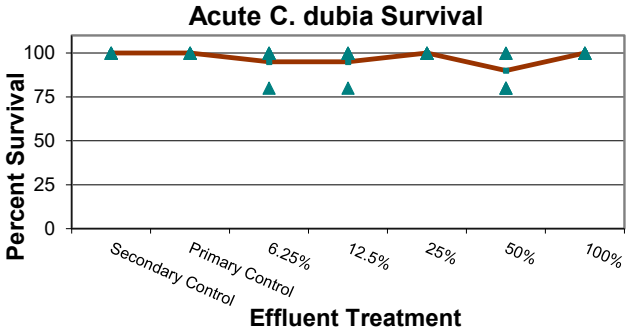
| SPECIES | EFFLUENT TREATMENT | Percent Survival By Replicate | | | | Mean Percent Survival |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | |
| *Ceriodaphnia dubia*<br><br>Age of Organism:<br>< 24 Hours Old | Secondary Control | 100 | 100 | 100 | 100 | 100.0 |
| | Primary Control | 100 | 100 | 100 | 100 | 100.0 |
| | 6.25% | 100 | 100 | 80 | 100 | 95.0 |
| | 12.5% | 100 | 100 | 100 | 80 | 95.0 |
| | 25% | 100 | 100 | 100 | 100 | 100.0 |
| | 50% | 80 | 80 | 100 | 100 | 90.0 |
| | 100% | 100 | 100 | 100 | 100 | 100.0 |

***Ceriodaphnia dubia* ACUTE RESULTS:** **$LC_{50}$ =** **>100** **C.I.% =** **NA** **$TU_a$ =** **1.0**

*Please describe any unusual behavior and/or appearance of organisms.(see Part 6.1.2 of the Methods Manual for ex.)*

COMMENTS:




Facility : Tyco Fire Products
Permit # : WI-0001040-08-0
Acute Test Date : 7/13/2022

# WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information 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.*

| | | | | | |
|---|---|---|---|---|---|
| LAB REPRESENTATIVE: | Patrick S. Poirier | | SIGNATURE: | | |
| PHONE: | 715-392-6635 | LAB CERT #: | 816079220 | DATE: | 7/18/2022 |
| PERMITTEE REPRESENTATIVE: | | | SIGNATURE: | | |
| PHONE: | | | DATE: | | |

**Send *all 3 pages* of this form (plus any attachments or additional information which you believe to be relevant to the test) to: Biomonitoring Coordinator, Bureau of Watershed Management, Department of Natural Resources, 101 South Webster St., P.O. Box 7921, Madison, WI 53707-7921; according to the timelines specified in your WPDES permit.**

*Copies of the State of Wisconsin Aquatic Life Toxicity Testing Methods Manual (Methods Manual) and the WET Guidance Document can be obtained from the Biomonitoring Coordinator at the address given above or at: http://dnr.wi.gov/org/water/wm/ww/biomon/biomon.htm*

| TO BE COMPLETED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES | | | |
|---|---|---|---|
| Date Received: | | DID TESTS PASS? | |
| ACUTE | Fathead Minnow | ☐ Yes ☐ No ☐ Inconclusive ☐ Unacceptable | |
| | *Ceriodaphnia dubia* | ☐ Yes ☐ No ☐ Inconclusive ☐ Unacceptable | |
| Retests Required? | ☐ Yes ☐ No | ____ Both species C.dubia only FHM only | |
| Due To: | ☐ Failure ☐ QA Problem | | |
| WET Limit Violation? | ☐ Yes ☐ No limit in permit | Results Entered Into Database? ☐ Yes ☐ No | |
| COMMENTS: | | | |
| **REVIEWED BY:** | | **DATE:** | |
| CC: | | BASIN ENGINEER | |
| | | PERMIT COORDINATOR | |
| | | PERMIT FILE | |

Facility : Tyco Fire Products
Permit # : WI-0001040-08-0
Acute Test Date : 7/13/2022

# Attachment 3
# 2022 Pump Down Program Groundwater Elevation Monitoring

**Attachment 3. 2022 Pump Down Program Groundwater Elevation Monitoring**

*Tyco Fire Products LP, Marinette, Wisconsin*

| Target Elevation | 577.9 |
|---|---|

| Well ID | January 6, 2022 | | January 13, 2022 | | January 20, 2022 | | January 27, 2022 | | February 8, 2022 | | February 17, 2022 | | February 22, 2022 | | March 1, 2022 | | March 8, 2022 | | March 15, 2022 | | March 22, 2022 | | March 29, 2022 | | April 5, 2022 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) |
| MW001M | 10.18 | 576.94 | 10.29 | 576.83 | 11.29 | 575.82 | 11.34 | 575.77 | 10.83 | 576.28 | 11.49 | 575.62 | 11.34 | 575.77 | 11.36 | 575.75 | 11.16 | 575.95 | 11.12 | 575.99 | 11.28 | 575.83 | 10.94 | 576.17 | 10.51 | 576.61 |
| MW001S | 10.38 | 576.82 | 10.53 | 576.67 | 11.49 | 575.71 | 11.53 | 575.67 | 11.06 | 576.14 | 11.70 | 575.50 | 11.56 | 575.64 | 11.61 | 575.59 | 11.44 | 575.76 | 11.30 | 575.90 | 11.54 | 575.66 | 11.23 | 575.97 | 10.77 | 576.43 |
| MW002M-R | 13.50 | 576.90 | 13.59 | 576.81 | 14.35 | 576.05 | 14.57 | 575.83 | 14.09 | 576.31 | 14.65 | 575.74 | 14.60 | 575.79 | 14.67 | 575.72 | 14.54 | 575.86 | 14.45 | 575.95 | 14.53 | 575.87 | 14.26 | 576.14 | 13.92 | 576.48 |
| MW002S-R | 13.47 | 576.80 | 13.54 | 576.73 | 14.30 | 575.97 | 14.53 | 575.74 | 14.07 | 576.20 | 14.62 | 575.65 | 14.58 | 575.69 | 14.64 | 575.63 | 14.48 | 575.79 | 14.43 | 575.84 | 14.46 | 575.81 | 14.23 | 576.04 | 13.83 | 576.44 |
| MW031M | 10.89 | 577.11 | 11.02 | 576.98 | 12.13 | 575.86 | 12.12 | 575.87 | 11.55 | 576.45 | 12.47 | 575.52 | 12.06 | 575.93 | 12.08 | 575.91 | 11.94 | 576.06 | 11.85 | 576.15 | 12.07 | 575.92 | 11.68 | 576.32 | 11.27 | 576.73 |
| MW031S | 12.03 | 576.84 | 12.17 | 576.70 | 13.37 | 575.50 | 13.30 | 575.57 | 12.70 | 576.17 | 13.58 | 575.29 | 13.24 | 575.63 | 13.22 | 575.65 | 13.08 | 575.79 | 12.97 | 575.90 | 13.29 | 575.58 | 12.83 | 576.04 | 12.43 | 576.44 |
| MW113S | 13.37 | 576.90 | 13.43 | 576.84 | 14.32 | 575.95 | 14.38 | 575.89 | 13.95 | 576.32 | 14.47 | 575.80 | 14.47 | 575.80 | 14.51 | 575.76 | 14.37 | 575.90 | 14.30 | 575.97 | 14.35 | 575.92 | 14.14 | 576.13 | 13.77 | 576.50 |
| MW113M | 11.42 | 578.85 | 11.57 | 578.70 | 12.18 | 578.09 | 12.22 | 578.05 | 12.02 | 578.25 | 12.44 | 577.83 | 12.32 | 577.95 | 12.38 | 577.89 | 12.28 | 577.99 | 12.19 | 578.08 | 11.99 | 578.28 | 11.78 | 578.49 | 11.33 | 578.94 |
| MW115P | 11.82 | 577.25 | 11.96 | 577.11 | 12.84 | 576.23 | 12.90 | 576.17 | 12.59 | 576.48 | 13.37 | 575.70 | 13.16 | 575.91 | 13.23 | 575.84 | 13.09 | 575.98 | 13.09 | 575.98 | 13.23 | 575.84 | 12.89 | 576.18 | 11.08 | 577.99 |
| MW115S | 12.12 | 576.84 | 12.27 | 576.69 | 13.55 | 575.41 | 13.43 | 575.53 | 12.78 | 576.18 | 13.65 | 575.31 | 13.34 | 575.62 | 13.37 | 575.59 | 13.17 | 575.79 | 13.11 | 575.85 | 13.38 | 575.58 | 12.91 | 576.05 | 12.44 | 576.52 |
| MW116P | 12.63 | 577.22 | 12.65 | 577.20 | 12.82 | 577.03 | 12.86 | 576.99 | 12.98 | 576.87 | 12.96 | 576.89 | 12.98 | 576.87 | 12.95 | 576.90 | 12.98 | 576.87 | 12.95 | 576.90 | 12.98 | 576.87 | 11.52 | 578.34 | 11.21 | 578.65 |
| MW116S | 13.00 | 576.86 | 13.14 | 576.72 | 14.02 | 575.83 | 14.33 | 575.52 | 13.59 | 576.26 | 14.36 | 575.49 | 14.19 | 575.66 | 14.18 | 575.67 | 14.02 | 575.83 | 13.98 | 575.87 | 14.18 | 575.67 | 13.69 | 576.16 | 13.22 | 576.64 |
| MW119D | 8.59 | 580.13 | 8.68 | 580.04 | 8.76 | 579.96 | 8.82 | 579.90 | 8.92 | 579.80 | 8.96 | 579.76 | 8.99 | 579.73 | 9.03 | 579.69 | 9.09 | 579.63 | 9.13 | 579.59 | 9.17 | 579.55 | 9.12 | 579.60 | 9.12 | 579.60 |
| EW-3 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-10 | 10.28 | 576.77 | 10.28 | 576.77 | 11.23 | 575.82 | 11.33 | 575.72 | 10.82 | 576.23 | 11.62 | 575.43 | 11.32 | 575.73 | 11.38 | 575.67 | 11.23 | 575.82 | 11.76 | 575.29 | 10.78 | 576.27 | 10.07 | 576.98 | 9.84 | 577.21 |
| EW-11 | 9.08 | 577.60 | 9.18 | 577.50 | 10.03 | 576.65 | 10.08 | 576.60 | 9.82 | 576.86 | 9.40 | 577.28 | 10.23 | 576.45 | 10.26 | 576.42 | 10.06 | 576.62 | 10.85 | 575.83 | 9.83 | 576.85 | 9.65 | 577.03 | 9.24 | 577.44 |
| EW-13 | 8.19 | 576.92 | 8.23 | 576.88 | 9.41 | 575.69 | 9.37 | 575.73 | 8.87 | 576.24 | 9.80 | 575.30 | 9.42 | 575.68 | 9.48 | 575.62 | 9.36 | 575.74 | 9.25 | 575.86 | 9.19 | 575.92 | 8.92 | 576.19 | 8.28 | 576.83 |
| EW-14 | 9.20 | 576.87 | 9.22 | 576.85 | 10.38 | 575.69 | 10.35 | 575.72 | 9.82 | 576.25 | 10.84 | 575.23 | 10.42 | 575.65 | 10.38 | 575.69 | 10.33 | 575.74 | 10.23 | 575.84 | 9.16 | 576.91 | 9.83 | 576.24 | 8.89 | 577.18 |
| MW034M | 10.85 | 577.37 | 11.54 | 576.68 | 11.71 | 576.51 | 12.14 | 576.08 | 11.98 | 576.24 | 11.99 | 576.23 | 11.59 | 576.63 | 12.38 | 575.84 | 12.48 | 575.74 | 12.65 | 575.57 | 12.54 | 575.68 | 11.62 | 576.60 | 11.42 | 576.80 |
| MW034S | 11.06 | 577.12 | 11.65 | 576.53 | 12.02 | 576.16 | 12.32 | 575.86 | 11.67 | 576.51 | 12.36 | 575.82 | 11.87 | 576.31 | 12.65 | 575.53 | 12.79 | 575.39 | 12.95 | 575.23 | 12.87 | 575.31 | 11.98 | 576.20 | 11.61 | 576.57 |
| MW036M | 11.95 | 576.63 | 11.84 | 576.74 | 12.44 | 576.13 | 12.73 | 575.83 | 12.39 | 576.18 | 13.11 | 575.45 | 12.53 | 576.04 | 12.74 | 575.82 | 12.83 | 575.73 | 12.89 | 575.67 | 12.83 | 575.73 | 12.64 | 575.93 | 12.06 | 576.52 |
| MW036S | 11.38 | 576.87 | 11.28 | 576.97 | 11.86 | 576.39 | 12.16 | 576.09 | 11.89 | 576.36 | 12.13 | 576.12 | 11.86 | 576.39 | 12.17 | 576.08 | 12.31 | 575.94 | 12.41 | 575.84 | 12.32 | 575.93 | 12.05 | 576.20 | 11.48 | 576.77 |
| MW038M | 9.47 | 576.67 | 9.12 | 577.02 | 9.90 | 576.24 | 10.28 | 575.86 | 9.76 | 576.38 | 9.90 | 576.24 | 9.74 | 576.40 | 9.89 | 576.25 | 9.99 | 576.15 | 10.09 | 576.05 | 9.97 | 576.17 | 9.82 | 576.32 | 9.01 | 577.13 |
| MW038S | 11.19 | 576.63 | 10.80 | 577.02 | 11.63 | 576.19 | 12.00 | 575.82 | 11.42 | 576.40 | 11.65 | 576.17 | 11.48 | 576.34 | 11.60 | 576.22 | 11.74 | 576.08 | 11.84 | 575.98 | 11.69 | 576.13 | 11.56 | 576.26 | 10.79 | 577.03 |
| MW120D | 8.14 | 580.65 | 8.52 | 580.27 | 8.76 | 580.03 | 8.99 | 579.79 | 8.65 | 580.14 | 8.92 | 579.86 | 8.48 | 580.31 | 8.73 | 580.06 | 8.63 | 580.16 | 8.79 | 580.00 | 8.28 | 580.51 | 8.69 | 580.10 | 8.17 | 580.62 |
| MW120M | 11.63 | 577.28 | 11.81 | 577.10 | 12.30 | 576.60 | 12.43 | 576.47 | 12.45 | 576.45 | 12.75 | 576.14 | 12.54 | 576.36 | 12.88 | 576.01 | 12.98 | 575.91 | 13.12 | 575.77 | 13.03 | 575.86 | 12.51 | 576.39 | 11.84 | 577.07 |
| MW120S | 11.15 | 577.37 | 11.17 | 577.35 | 11.76 | 576.76 | 11.76 | 576.76 | 11.99 | 576.53 | 12.26 | 576.26 | 12.04 | 576.48 | 12.29 | 576.23 | 12.45 | 576.07 | 12.58 | 575.94 | 12.58 | 575.94 | 12.13 | 576.39 | 10.98 | 577.54 |
| EW-2 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-8 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | 8.00 | 576.11 | 8.08 | 576.03 | NM | - | 8.02 | 576.09 | 9.62 | 574.48 | 8.44 | 575.66 |
| EW-9 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | 10.94 | 572.42 | 11.33 | 572.03 | NM | - | 11.62 | 571.74 | 7.13 | 576.24 | 9.42 | 573.94 |
| MW004M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW004S | 6.00 | 582.74 | 6.23 | 582.51 | 6.51 | 582.23 | 6.57 | 582.17 | 6.78 | 581.96 | 6.87 | 581.87 | 6.88 | 581.86 | 6.97 | 581.77 | 6.72 | 582.02 | 6.58 | 582.16 | 5.88 | 582.86 | 5.24 | 583.50 | 5.52 | 583.22 |
| MW032M | 6.72 | 581.63 | 6.94 | 581.41 | 7.35 | 581.00 | 7.14 | 581.21 | 7.29 | 581.06 | 7.45 | 580.90 | 7.34 | 581.01 | 7.36 | 580.99 | 7.18 | 581.17 | 7.19 | 581.16 | 6.62 | 581.74 | 6.27 | 582.09 | 5.64 | 582.72 |
| MW032S | 6.01 | 582.48 | 6.18 | 582.31 | 6.59 | 581.89 | 6.53 | 581.95 | 6.63 | 581.85 | 6.85 | 581.63 | 6.62 | 581.86 | 6.76 | 581.72 | 6.32 | 582.17 | 6.38 | 582.10 | 5.48 | 583.01 | 5.08 | 583.41 | 4.50 | 583.99 |
| MW033M | 4.89 | 582.85 | 5.12 | 582.61 | 5.41 | 582.32 | 5.47 | 582.26 | 5.64 | 582.08 | 5.72 | 582.00 | 5.78 | 581.94 | 5.81 | 581.91 | 5.55 | 582.17 | 5.43 | 582.30 | 4.69 | 583.05 | 4.07 | 583.68 | 3.47 | 584.29 |
| MW033S | 4.63 | 582.69 | 4.89 | 582.43 | 5.17 | 582.15 | 5.21 | 582.11 | 5.42 | 581.90 | 5.50 | 581.82 | 5.49 | 581.83 | 5.61 | 581.71 | 5.34 | 581.98 | 5.29 | 582.03 | 4.47 | 582.85 | NM | - | 3.52 | 583.80 |
| MW039M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW039S | 3.46 | 582.74 | 3.68 | 582.52 | 3.96 | 582.24 | 4.02 | 582.18 | 4.23 | 581.97 | 4.31 | 581.89 | 4.32 | 581.88 | 4.39 | 581.81 | 4.10 | 582.10 | 4.02 | 582.18 | 3.93 | 582.27 | 2.66 | 583.54 | 1.91 | 584.29 |
| MW035M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW035S | 6.38 | 581.27 | 6.79 | 580.86 | 7.16 | 580.49 | 7.35 | 580.30 | 7.54 | 580.11 | 7.68 | 579.97 | 7.58 | 580.07 | 7.81 | 579.84 | 5.82 | 581.83 | 6.13 | 581.52 | 5.46 | 582.19 | 5.63 | 582.02 | 5.39 | 582.26 |
| MW037M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW037S | 5.67 | 581.40 | 6.11 | 580.96 | 6.47 | 580.60 | 6.69 | 580.37 | 6.93 | 580.13 | 7.10 | 579.96 | 7.01 | 580.05 | 7.21 | 579.85 | 6.99 | 580.07 | 6.10 | 580.97 | NM | - | NM | - | NM | - |
| SG4 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| Rough Target Elevation Calc SV* | | 578.96 | | 576.97 | | 576.02 | | 575.95 | | 576.46 | | 575.78 | | 575.95 | | 575.92 | | 576.07 | | 576.15 | | 576.01 | | 576.35 | | 576.77 |
| Rough Target Elevation Calc 8S* | | 574.47 | | 576.93 | | 576.37 | | 576.10 | | 576.38 | | 576.05 | | 576.37 | | 576.00 | | 575.88 | | 575.76 | | 575.84 | | 576.29 | | 576.93 |
| Target Elevation (NAVD88) | | 577.90 | | 577.9 | | 577.9 | | 577.9 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 |
| SV Variance | | 1.06 | | -0.93 | | -1.88 | | -1.95 | | -1.44 | | -2.12 | | -1.95 | | -1.98 | | -1.83 | | -1.75 | | -1.89 | | -1.55 | | -1.13 |
| 8S Variance | | -3.43 | | -0.97 | | -1.53 | | -1.80 | | -1.52 | | -1.85 | | -1.53 | | -1.90 | | -2.02 | | -2.14 | | -2.06 | | -1.61 | | -0.97 |

**Attachment 3. 2022 Pump Down Program Groundwater Elevation Monitoring**

*Tyco Fire Products LP, Marinette, Wisconsin*

| Target Elevation | 577.9 |
|---|---|

| Well ID | April 12, 2022 | | April 21, 2022 | | April 26, 2022 | | May 5, 2022 | | May 10, 2022 | | May 17, 2022 | | May 26, 2022 | | June 1, 2022 | | June 6, 2022 | | June 14, 2022 | | June 28, 2022 | | July 6, 2022 | | July 12, 2022 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) |
| MW001M | 10.33 | 576.79 | 10.19 | 576.93 | 10.18 | 576.94 | 10.01 | 577.11 | 9.82 | 577.30 | 10.25 | 576.87 | 10.30 | 576.82 | 9.70 | 577.42 | 10.12 | 577.00 | 10.17 | 576.95 | 10.27 | 576.85 | 10.34 | 576.78 | 10.52 | 576.62 |
| MW001S | 10.59 | 576.61 | 10.44 | 576.76 | 10.47 | 576.73 | 10.29 | 576.91 | 10.08 | 577.12 | 10.53 | 576.67 | 10.57 | 576.63 | 9.95 | 577.25 | 10.40 | 576.80 | 10.45 | 576.75 | 10.53 | 576.67 | 10.58 | 576.62 | 10.75 | 576.46 |
| MW002M-R | 13.71 | 576.69 | 13.61 | 576.79 | 13.54 | 576.86 | 13.42 | 576.98 | 13.24 | 577.16 | 13.62 | 576.78 | 13.67 | 576.73 | 13.10 | 577.31 | 13.54 | 576.86 | 13.60 | 576.80 | 13.68 | 576.72 | 13.69 | 576.71 | 13.81 | 576.59 |
| MW002S-R | 13.61 | 576.66 | 13.51 | 576.76 | 13.48 | 576.79 | 13.40 | 576.87 | 13.12 | 577.16 | 13.55 | 576.72 | 13.59 | 576.68 | 12.97 | 577.31 | 13.45 | 576.82 | 13.51 | 576.76 | 13.49 | 576.78 | 13.61 | 576.66 | 13.75 | 576.53 |
| MW031M | 11.05 | 576.95 | 10.92 | 577.08 | 10.98 | 577.02 | 10.90 | 577.10 | 10.40 | 577.60 | 10.98 | 577.02 | 10.90 | 577.10 | 8.52 | 579.50 | 10.84 | 577.16 | 10.82 | 577.18 | 11.02 | 576.98 | 11.14 | 576.86 | 11.20 | 576.76 |
| MW031S | 12.19 | 576.68 | 12.06 | 576.81 | 12.12 | 576.75 | 12.02 | 576.85 | 11.71 | 577.16 | 12.22 | 576.65 | 12.22 | 576.65 | 11.65 | 577.22 | 11.99 | 576.88 | 11.99 | 576.88 | 12.03 | 576.84 | 12.29 | 576.58 | 12.39 | 576.48 |
| MW113S | 13.54 | 576.73 | 13.48 | 576.79 | 13.35 | 576.92 | 13.28 | 576.99 | 13.07 | 577.20 | 13.43 | 576.84 | 13.46 | 576.81 | 12.94 | 577.33 | 13.35 | 576.92 | 13.41 | 576.86 | 13.46 | 576.81 | 13.59 | 576.68 | 13.69 | 576.57 |
| MW113M | 11.15 | 579.12 | 10.98 | 579.29 | 10.98 | 579.29 | 10.96 | 579.31 | 10.74 | 579.54 | 11.02 | 579.25 | 10.79 | 579.49 | 10.71 | 579.57 | 10.94 | 579.33 | 11.06 | 579.21 | 11.32 | 578.95 | 11.43 | 578.84 | 11.52 | 578.71 |
| MW115P | 10.57 | 578.50 | 8.53 | 580.55 | 9.18 | 579.90 | 9.95 | 579.13 | 10.58 | 578.49 | 10.94 | 578.13 | 10.87 | 578.20 | 11.09 | 577.98 | 11.33 | 577.74 | 11.57 | 577.50 | 11.73 | 577.34 | 11.91 | 577.16 | 11.96 | 577.11 |
| MW115S | 12.20 | 576.76 | 12.10 | 576.86 | 12.18 | 576.78 | 12.06 | 576.90 | 11.75 | 577.22 | 12.33 | 576.63 | 12.35 | 576.61 | 11.72 | 577.25 | 12.02 | 576.94 | 12.18 | 576.78 | 12.19 | 576.77 | 12.36 | 576.60 | 12.48 | 576.48 |
| MW116P | 11.58 | 578.28 | 12.01 | 577.84 | 12.07 | 577.78 | 12.14 | 577.71 | 12.09 | 577.76 | 11.98 | 577.87 | 11.91 | 577.95 | 11.82 | 578.04 | 11.85 | 578.01 | 11.95 | 577.90 | 12.03 | 577.82 | 11.96 | 577.89 | 11.86 | 577.99 |
| MW116S | 13.08 | 576.78 | 12.99 | 576.87 | 13.01 | 576.85 | 12.83 | 577.03 | 12.73 | 577.13 | 13.27 | 576.59 | 13.37 | 576.49 | 12.60 | 577.26 | 13.06 | 576.80 | 13.22 | 576.64 | 13.09 | 576.77 | 13.16 | 576.70 | 13.38 | 576.45 |
| MW119D | 9.04 | 579.68 | 8.92 | 579.80 | 8.89 | 579.83 | 8.83 | 579.89 | 8.80 | 579.92 | 8.72 | 580.00 | 8.65 | 580.07 | 8.62 | 580.10 | 8.60 | 580.12 | 8.59 | 580.13 | 8.59 | 580.13 | 8.97 | 579.75 | 8.87 | 579.85 |
| EW-3 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-10 | 9.75 | 577.30 | 9.56 | 577.49 | 9.81 | 577.24 | 8.75 | 578.31 | 9.51 | 577.54 | 9.85 | 577.20 | 9.80 | 577.25 | 9.50 | 577.55 | 9.74 | 577.31 | 8.71 | 578.35 | 10.00 | 577.05 | 10.35 | 576.70 | 10.44 | 576.61 |
| EW-11 | 8.99 | 577.69 | 8.93 | 577.75 | 8.88 | 577.80 | 8.76 | 577.92 | 8.62 | 578.06 | 8.92 | 577.76 | 8.85 | 577.83 | 8.50 | 578.18 | 8.83 | 577.85 | 8.89 | 577.79 | 9.02 | 577.66 | 9.14 | 577.54 | 9.29 | 577.39 |
| EW-13 | 7.89 | 577.22 | 7.90 | 577.21 | 7.98 | 577.13 | 8.03 | 577.08 | 7.80 | 577.31 | 8.23 | 576.88 | 8.04 | 577.07 | 7.85 | 577.26 | 8.09 | 577.02 | 8.11 | 577.00 | 8.23 | 576.88 | 8.41 | 576.70 | 8.46 | 576.65 |
| EW-14 | 9.22 | 576.85 | 9.14 | 576.93 | 9.22 | 576.85 | 9.10 | 576.97 | 8.82 | 577.25 | 9.38 | 576.69 | 9.31 | 576.76 | 8.82 | 577.25 | 9.19 | 576.88 | 9.25 | 576.82 | 9.29 | 576.78 | 9.45 | 576.62 | 9.52 | 576.55 |
| MW034M | 10.85 | 577.37 | 11.12 | 577.10 | 10.98 | 577.24 | 10.60 | 577.62 | 10.59 | 577.63 | 11.01 | 577.21 | 10.23 | 577.99 | 10.67 | 577.55 | 11.43 | 576.79 | 11.19 | 577.03 | 11.18 | 577.04 | 11.16 | 577.06 | 11.24 | 576.98 |
| MW034S | 11.10 | 577.08 | 11.37 | 576.81 | 11.19 | 576.99 | 10.56 | 577.62 | 10.81 | 577.37 | 11.26 | 576.92 | 11.40 | 576.78 | 10.89 | 577.29 | 11.67 | 576.51 | 11.45 | 576.73 | 11.52 | 576.66 | 11.52 | 576.66 | 11.60 | 576.58 |
| MW036M | 11.40 | 577.19 | 7.85 | 580.80 | 11.44 | 577.15 | 11.51 | 577.08 | 11.20 | 577.39 | 11.55 | 577.03 | 11.71 | 576.87 | 11.23 | 577.36 | 11.68 | 576.90 | 11.41 | 577.18 | 11.12 | 577.47 | 11.33 | 577.26 | 11.50 | 577.01 |
| MW036S | 10.84 | 577.41 | 11.18 | 577.07 | 10.77 | 577.48 | 10.93 | 577.32 | 10.54 | 577.71 | 10.92 | 577.33 | 11.11 | 577.14 | 10.60 | 577.65 | 11.08 | 577.17 | 10.81 | 577.44 | 10.56 | 577.69 | 10.73 | 577.52 | 10.90 | 577.35 |
| MW038M | 8.30 | 577.84 | 9.02 | 577.12 | 8.51 | 577.63 | 8.57 | 577.57 | 8.08 | 578.06 | 8.66 | 577.48 | 8.95 | 577.19 | 8.26 | 577.88 | 8.79 | 577.35 | 8.35 | 577.79 | 7.98 | 578.16 | 8.28 | 577.86 | 8.55 | 577.59 |
| MW038S | 9.97 | 577.86 | 10.77 | 577.05 | 10.19 | 577.64 | 10.21 | 577.62 | 9.81 | 578.02 | 10.36 | 577.47 | 10.61 | 577.21 | 9.95 | 577.88 | 10.52 | 577.30 | 10.00 | 577.83 | 9.59 | 578.24 | 9.90 | 577.93 | 10.26 | 577.57 |
| MW120D | 8.43 | 580.36 | 8.08 | 580.71 | 8.31 | 580.48 | 7.80 | 580.99 | 7.71 | 581.08 | 8.10 | 580.69 | 7.68 | 581.11 | 7.77 | 581.02 | 7.71 | 581.08 | 7.39 | 581.40 | 7.39 | 581.40 | 7.61 | 581.18 | 7.95 | 580.84 |
| MW120M | 11.29 | 577.63 | 11.27 | 577.65 | 11.18 | 577.74 | 11.30 | 577.62 | 11.25 | 577.67 | 11.38 | 577.54 | 11.22 | 577.70 | 11.14 | 577.78 | 11.44 | 577.47 | 11.45 | 577.46 | 11.61 | 577.30 | 11.60 | 577.31 | 11.66 | 577.25 |
| MW120S | 10.28 | 578.24 | 10.10 | 578.42 | 10.19 | 578.33 | 10.44 | 578.08 | 10.55 | 577.97 | 10.54 | 577.98 | 10.15 | 578.37 | 10.44 | 578.08 | 10.59 | 577.93 | 10.66 | 577.86 | 10.91 | 577.61 | 10.90 | 577.62 | 10.98 | 577.54 |
| EW-2 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-8 | NM | - | 12.90 | 571.19 | 9.73 | 574.37 | 6.81 | 577.30 | 9.65 | 574.45 | 8.92 | 575.18 | 8.90 | 575.20 | 8.02 | 576.09 | 10.10 | 574.00 | 6.61 | 577.50 | 6.20 | 577.91 | 6.49 | 577.62 | 8.25 | 575.85 |
| EW-9 | NM | - | 9.46 | 573.90 | 11.42 | 571.94 | 6.23 | 577.14 | 9.61 | 573.75 | 9.75 | 573.61 | 9.54 | 573.82 | 9.18 | 574.18 | 13.72 | 569.63 | 8.52 | 574.84 | 11.78 | 571.58 | 8.91 | 574.45 | 9.85 | 573.51 |
| MW004M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW004S | 5.34 | 583.40 | 3.92 | 584.82 | 4.05 | 584.69 | 4.18 | 584.56 | 4.41 | 584.33 | 4.24 | 584.50 | 3.70 | 585.04 | 4.04 | 584.70 | 4.07 | 584.67 | 4.39 | 584.35 | 5.02 | 583.72 | 5.21 | 583.53 | 5.39 | 583.35 |
| MW032M | 5.78 | 582.58 | 5.35 | 583.01 | 5.62 | 582.74 | 5.62 | 582.74 | 5.68 | 582.68 | 5.63 | 582.73 | 5.10 | 583.26 | 5.50 | 582.86 | 5.62 | 582.74 | 5.61 | 582.75 | 6.18 | 582.18 | 6.11 | 582.25 | 6.29 | 582.02 |
| MW032S | 4.52 | 583.97 | 4.09 | 584.40 | 4.38 | 584.11 | 4.42 | 584.07 | 4.69 | 583.80 | 4.42 | 584.07 | 4.90 | 583.59 | 4.32 | 584.17 | 4.57 | 583.92 | 4.55 | 583.94 | 5.37 | 583.12 | 5.33 | 583.16 | 5.54 | 582.95 |
| MW033M | 2.97 | 584.80 | 2.88 | 584.89 | 3.08 | 584.69 | 3.08 | 584.69 | 3.40 | 584.36 | 3.12 | 584.65 | 2.61 | 585.17 | 2.94 | 584.83 | 3.07 | 584.70 | 3.33 | 584.43 | 3.99 | 583.76 | 4.11 | 583.64 | 4.32 | 583.07 |
| MW033S | 3.21 | 584.11 | 2.56 | 584.76 | 2.78 | 584.54 | 2.82 | 584.50 | 3.07 | 584.25 | 2.86 | 584.46 | 2.30 | 585.02 | 2.65 | 584.67 | 2.86 | 584.46 | 3.00 | 584.32 | 3.75 | 583.57 | 3.86 | 583.46 | 4.05 | 583.27 |
| MW039M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW039S | 1.88 | 584.32 | 1.33 | 584.87 | 1.49 | 584.71 | 1.60 | 584.60 | 1.89 | 584.31 | 1.72 | 584.48 | 1.10 | 585.10 | 1.49 | 584.71 | 1.47 | 584.73 | 1.85 | 584.35 | 2.44 | 583.76 | 2.61 | 583.59 | 2.83 | 583.37 |
| MW035M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW035S | 5.70 | 581.95 | 5.59 | 582.06 | 5.74 | 581.91 | 5.76 | 581.89 | 5.88 | 581.77 | 5.81 | 581.84 | 5.42 | 582.23 | 5.81 | 581.84 | 5.69 | 581.96 | 5.98 | 581.67 | 7.32 | 580.33 | 7.32 | 580.33 | 7.83 | 579.82 |
| MW037M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW037S | 4.85 | 582.22 | 4.76 | 582.31 | 4.89 | 582.18 | 4.96 | 582.11 | 5.05 | 582.02 | 5.00 | 582.07 | 4.67 | 582.40 | 5.01 | 582.06 | 4.98 | 582.09 | 5.26 | 581.81 | 6.80 | 580.26 | 6.88 | 580.18 | 7.33 | 579.73 |
| SG4 | NM | - | 7.00 | 580.45 | 7.00 | 580.45 | 6.26 | 581.19 | 6.00 | 581.45 | 5.90 | 581.55 | 6.02 | 581.43 | 6.00 | 581.45 | 5.80 | 581.65 | 5.70 | 581.75 | 5.70 | 581.75 | 6.60 | 580.85 | 6.19 | 581.26 |
| Rough Target Elevation Calc SV* | 576.98 | | 577.10 | | 577.09 | | 577.21 | | 577.46 | | 577.00 | | 577.00 | | 577.74 | | 577.15 | | 577.08 | | 577.01 | | 576.90 | | 576.76 | |
| Rough Target Elevation Calc 8S* | 577.58 | | 577.75 | | 577.52 | | 577.57 | | 577.73 | | 577.37 | | 577.41 | | 577.68 | | 577.18 | | 577.42 | | 577.52 | | 577.40 | | 577.23 | |
| Target Elevation (NAVD88) | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | |
| SV Variance | -0.92 | | -0.80 | | -0.81 | | -0.69 | | -0.44 | | -0.90 | | -0.90 | | -0.16 | | -0.75 | | -0.82 | | -0.89 | | -1.00 | | -1.14 | |
| 8S Variance | -0.32 | | -0.15 | | -0.38 | | -0.33 | | -0.17 | | -0.53 | | -0.49 | | -0.22 | | -0.72 | | -0.48 | | -0.38 | | -0.50 | | -0.67 | |

**Attachment 3. 2022 Pump Down Program Groundwater Elevation Monitoring**

*Tyco Fire Products LP, Marinette, Wisconsin*

| Target Elevation | **577.9** |
|---|---|

| Well ID | July 21, 2022 | | July 27, 2022 | | August 2, 2022 | | August 9, 2022 | | August 16, 2022 | | August 23, 2022 | | September 2, 2022 | | September 14, 2022 | | September 22, 2022 | | October 3, 2022 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) |
| MW001M | 10.95 | 576.19 | 10.59 | 576.55 | 10.52 | 576.62 | 10.69 | 576.45 | 10.78 | 576.36 | 10.54 | 576.60 | 10.24 | 576.90 | 9.94 | 577.20 | 9.85 | 577.29 | 9.96 | 577.18 |
| MW001S | 11.18 | 576.03 | 10.80 | 576.41 | 10.72 | 576.49 | 10.94 | 576.27 | 11.01 | 576.20 | 10.75 | 576.46 | 10.45 | 576.76 | 10.13 | 577.08 | 10.05 | 577.16 | 10.14 | 577.07 |
| MW002M-R | 14.23 | 576.17 | 13.91 | 576.49 | 13.82 | 576.58 | 14.01 | 576.39 | 14.12 | 576.28 | 13.87 | 576.53 | 13.60 | 576.80 | 13.25 | 577.15 | 13.09 | 577.32 | 13.26 | 577.14 |
| MW002S-R | 14.17 | 576.11 | 13.83 | 576.45 | 13.80 | 576.48 | 13.97 | 576.31 | 14.07 | 576.21 | 13.81 | 576.47 | 13.49 | 576.79 | 13.16 | 577.12 | 13.15 | 577.13 | 13.21 | 577.07 |
| MW031M | 11.59 | 576.36 | 11.28 | 576.67 | 11.20 | 576.76 | 11.37 | 576.58 | 11.43 | 576.52 | 11.16 | 576.80 | 10.91 | 577.05 | 10.58 | 577.38 | 10.51 | 577.45 | 10.66 | 577.30 |
| MW031S | 12.91 | 575.96 | 12.47 | 576.40 | 12.35 | 576.52 | 12.57 | 576.30 | 12.65 | 576.22 | 12.35 | 576.52 | 12.11 | 576.76 | 11.75 | 577.12 | 11.71 | 577.16 | 11.81 | 577.06 |
| MW113S | 14.03 | 576.23 | 13.77 | 576.49 | 13.72 | 576.54 | 13.91 | 576.35 | 13.99 | 576.27 | 13.72 | 576.54 | 13.50 | 576.76 | 13.12 | 577.14 | 13.05 | 577.21 | 13.15 | 577.11 |
| MW113M | 11.79 | 578.44 | 11.69 | 578.54 | 11.74 | 578.49 | 11.74 | 578.49 | 11.73 | 578.50 | 11.57 | 578.66 | 11.46 | 578.77 | 11.23 | 579.00 | 11.32 | 578.91 | 11.43 | 578.80 |
| MW115P | 12.49 | 576.58 | 12.20 | 576.87 | 12.19 | 576.88 | 12.35 | 576.72 | 12.37 | 576.70 | 12.20 | 576.87 | 12.01 | 577.06 | 11.75 | 577.32 | 11.65 | 577.42 | 11.80 | 577.27 |
| MW115S | 13.19 | 575.77 | 12.54 | 576.42 | 12.46 | 576.50 | 12.66 | 576.30 | 12.76 | 576.20 | 12.49 | 576.47 | 12.20 | 576.76 | 11.90 | 577.06 | 11.83 | 577.13 | 11.90 | 577.06 |
| MW116P | 11.95 | 577.90 | 12.15 | 577.70 | 12.21 | 577.64 | 12.26 | 577.59 | 12.26 | 577.59 | 12.28 | 577.57 | 12.25 | 577.60 | 12.20 | 577.65 | 12.13 | 577.72 | 12.29 | 577.56 |
| MW116S | 14.08 | 575.75 | 13.42 | 576.41 | 13.36 | 576.47 | 13.56 | 576.27 | 13.71 | 576.12 | 13.43 | 576.40 | 13.11 | 576.72 | 12.80 | 577.03 | 12.74 | 577.09 | 12.78 | 577.05 |
| MW119D | 8.79 | 579.93 | 8.77 | 579.95 | 8.75 | 579.97 | 8.69 | 580.03 | 8.62 | 580.10 | 8.57 | 580.15 | 8.58 | 580.14 | 8.94 | 579.78 | 8.56 | 580.16 | 8.60 | 580.12 |
| EW-3 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-10 | 10.81 | 576.24 | 10.65 | 576.40 | 10.55 | 576.50 | 10.75 | 576.30 | 10.83 | 576.22 | 10.53 | 576.52 | 10.29 | 576.76 | 10.00 | 577.05 | 9.86 | 577.19 | 10.02 | 577.03 |
| EW-11 | 9.59 | 577.09 | 9.41 | 577.27 | 9.33 | 577.35 | 9.53 | 577.15 | 9.52 | 577.16 | 9.37 | 577.31 | 9.16 | 577.52 | 8.82 | 577.86 | 8.82 | 577.86 | 8.95 | 577.73 |
| EW-13 | 8.96 | 576.15 | 9.84 | 575.26 | 8.53 | 576.58 | 8.75 | 576.36 | 8.78 | 576.33 | 8.48 | 576.63 | 8.31 | 576.80 | 7.94 | 577.17 | 7.85 | 577.26 | 8.00 | 577.11 |
| EW-14 | 10.00 | 576.07 | 9.60 | 576.47 | 9.57 | 576.50 | 9.77 | 576.30 | 9.78 | 576.29 | 9.58 | 576.49 | 9.28 | 576.79 | 8.98 | 577.10 | 8.89 | 577.19 | 9.01 | 577.06 |
| MW034M | 11.85 | 576.37 | 11.52 | 576.70 | 11.89 | 576.33 | 11.64 | 576.58 | 11.49 | 576.73 | 11.16 | 577.06 | 11.07 | 577.15 | 10.60 | 577.62 | 10.94 | 577.28 | 10.94 | 577.28 |
| MW034S | 12.06 | 576.12 | 11.84 | 576.34 | 12.31 | 575.87 | 12.00 | 576.18 | 11.84 | 576.34 | 11.44 | 576.74 | 11.34 | 576.84 | 10.90 | 577.28 | 11.15 | 577.03 | 11.19 | 576.99 |
| MW036M | 11.98 | 576.53 | 11.85 | 576.66 | 12.01 | 576.50 | 12.14 | 576.36 | 11.91 | 576.60 | 11.61 | 576.90 | 11.51 | 577.00 | 11.43 | 577.08 | 11.41 | 577.10 | 11.42 | 577.09 |
| MW036S | 11.39 | 576.86 | 11.25 | 577.00 | 11.46 | 576.79 | 11.59 | 576.66 | 11.38 | 576.87 | 11.06 | 577.19 | 10.97 | 577.28 | 10.83 | 577.42 | 10.84 | 577.41 | 10.84 | 577.41 |
| MW038M | 9.26 | 576.88 | 9.00 | 577.14 | 9.02 | 577.12 | 9.32 | 576.82 | 9.00 | 577.14 | 8.75 | 577.39 | 8.63 | 577.51 | 8.55 | 577.59 | 8.51 | 577.63 | 8.56 | 577.58 |
| MW038S | 11.02 | 576.80 | 10.70 | 577.12 | 10.72 | 577.10 | 11.01 | 576.81 | 10.71 | 577.11 | 10.42 | 577.40 | 10.28 | 577.55 | 10.22 | 577.61 | 10.18 | 577.65 | 10.16 | 577.67 |
| MW120D | 8.04 | 580.75 | 7.80 | 580.99 | 7.58 | 581.21 | 8.00 | 580.79 | 7.77 | 581.02 | 8.06 | 580.73 | 7.98 | 580.81 | 7.92 | 580.87 | 8.61 | 580.18 | 8.36 | 580.43 |
| MW120M | 11.92 | 576.99 | 11.91 | 577.00 | 12.18 | 576.72 | 12.14 | 576.76 | 12.01 | 576.89 | 11.79 | 577.12 | 11.73 | 577.18 | 11.54 | 577.37 | 11.65 | 577.26 | 11.65 | 577.26 |
| MW120S | 11.22 | 577.30 | 11.22 | 577.30 | 11.51 | 577.01 | 11.50 | 577.02 | 11.38 | 577.14 | 11.28 | 577.24 | 11.24 | 577.28 | 11.02 | 577.50 | 11.15 | 577.37 | 11.26 | 577.26 |
| EW-2 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-8 | 11.89 | 572.20 | 8.64 | 575.46 | 8.62 | 575.48 | 7.52 | 576.58 | 7.12 | 576.98 | 6.89 | 577.21 | 6.88 | 577.22 | 8.54 | 575.56 | NM | - | NM | - |
| EW-9 | 16.02 | 567.32 | 9.51 | 573.85 | 9.45 | 573.91 | 10.42 | 572.94 | 10.40 | 572.96 | 9.55 | 573.81 | 8.80 | 574.56 | 9.50 | 573.86 | NM | - | NM | - |
| MW004M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW004S | 5.66 | 583.08 | 5.82 | 582.92 | 5.92 | 582.82 | 5.73 | 583.01 | 5.44 | 583.30 | 5.46 | 583.28 | 5.43 | 583.31 | 5.70 | 583.04 | 5.78 | 582.96 | 6.11 | 582.63 |
| MW032M | 6.56 | 581.75 | 6.54 | 581.77 | 6.48 | 581.83 | 6.24 | 582.07 | 6.12 | 582.19 | 6.21 | 582.10 | 6.35 | 581.96 | 6.25 | 582.06 | 6.70 | 581.61 | 6.79 | 581.52 |
| MW032S | 5.84 | 582.65 | 5.90 | 582.59 | 5.76 | 582.73 | 5.53 | 582.96 | 5.24 | 583.25 | 5.39 | 583.10 | 5.58 | 582.91 | 5.46 | 583.03 | 6.00 | 582.49 | 6.23 | 582.26 |
| MW033M | 4.32 | 583.07 | 4.72 | 582.67 | 4.75 | 582.64 | 4.58 | 582.81 | 4.29 | 583.10 | 4.34 | 583.05 | 4.33 | 583.06 | 4.35 | 583.04 | 4.69 | 582.70 | 4.99 | 582.39 |
| MW033S | 4.07 | 583.25 | 4.50 | 582.82 | 4.56 | 582.76 | 4.39 | 582.93 | 4.10 | 583.22 | 4.12 | 583.20 | 4.13 | 583.19 | 4.11 | 583.21 | 4.49 | 582.83 | 4.82 | 582.50 |
| MW039M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW039S | 3.09 | 583.11 | 3.25 | 582.95 | 3.24 | 582.96 | 7.72 | 578.48 | 2.96 | 583.24 | 2.93 | 583.27 | 2.92 | 583.28 | 2.89 | 583.31 | 3.26 | 582.94 | 3.57 | 582.63 |
| MW035M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW035S | 8.21 | 579.44 | 8.48 | 579.17 | 8.27 | 579.38 | 6.84 | 580.81 | 6.17 | 581.48 | 6.40 | 581.25 | 6.99 | 580.66 | 6.42 | 581.23 | 7.23 | 580.42 | 7.41 | 580.24 |
| MW037M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW037S | 7.71 | 579.35 | 8.02 | 579.04 | 6.67 | 580.39 | 6.31 | 580.76 | 6.61 | 580.45 | 5.73 | 581.34 | 6.08 | 580.99 | 5.75 | 581.32 | 6.60 | 580.46 | 6.79 | 580.27 |
| SG4 | 6.89 | 580.56 | 5.75 | 581.70 | 6.00 | 581.45 | 6.96 | 580.49 | 6.61 | 580.84 | 7.08 | 580.37 | 7.01 | 580.44 | 5.70 | 581.75 | 7.40 | 580.05 | 7.10 | 580.35 |
| Rough Target Elevation Calc SV* | | 576.30 | | 576.68 | | 576.74 | | 576.57 | | 576.49 | | 576.74 | | 577.01 | | 577.33 | | 577.38 | | 577.28 |
| Rough Target Elevation Calc 8S* | | 576.73 | | 576.91 | | 576.68 | | 576.65 | | 576.85 | | 577.13 | | 577.22 | | 577.43 | | 577.34 | | 577.32 |
| Target Elevation (NAVD88) | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 | | 577.90 |
| SV Variance | | -1.60 | | -1.22 | | -1.16 | | -1.33 | | -1.41 | | -1.16 | | -0.89 | | -0.57 | | -0.52 | | -0.62 |
| 8S Variance | | -1.17 | | -0.99 | | -1.22 | | -1.25 | | -1.05 | | -0.77 | | -0.68 | | -0.47 | | -0.56 | | -0.58 |

Notes:

Measurements were collected from top of casing (TOC). All depth measurements are in feet.

Elevations are reported in feet above mean sea level (AMSL) relative top the North American Vertical Datum 1988 (NAVD88)

Shaded = Well part of evaluation during Drawdown and Interim Phases

Bold = Well part of Target Elevation calculation

- = Information not applicable or not collected

Area Definitions - SV - Salt Vault, 8SS - 8th Street Slip

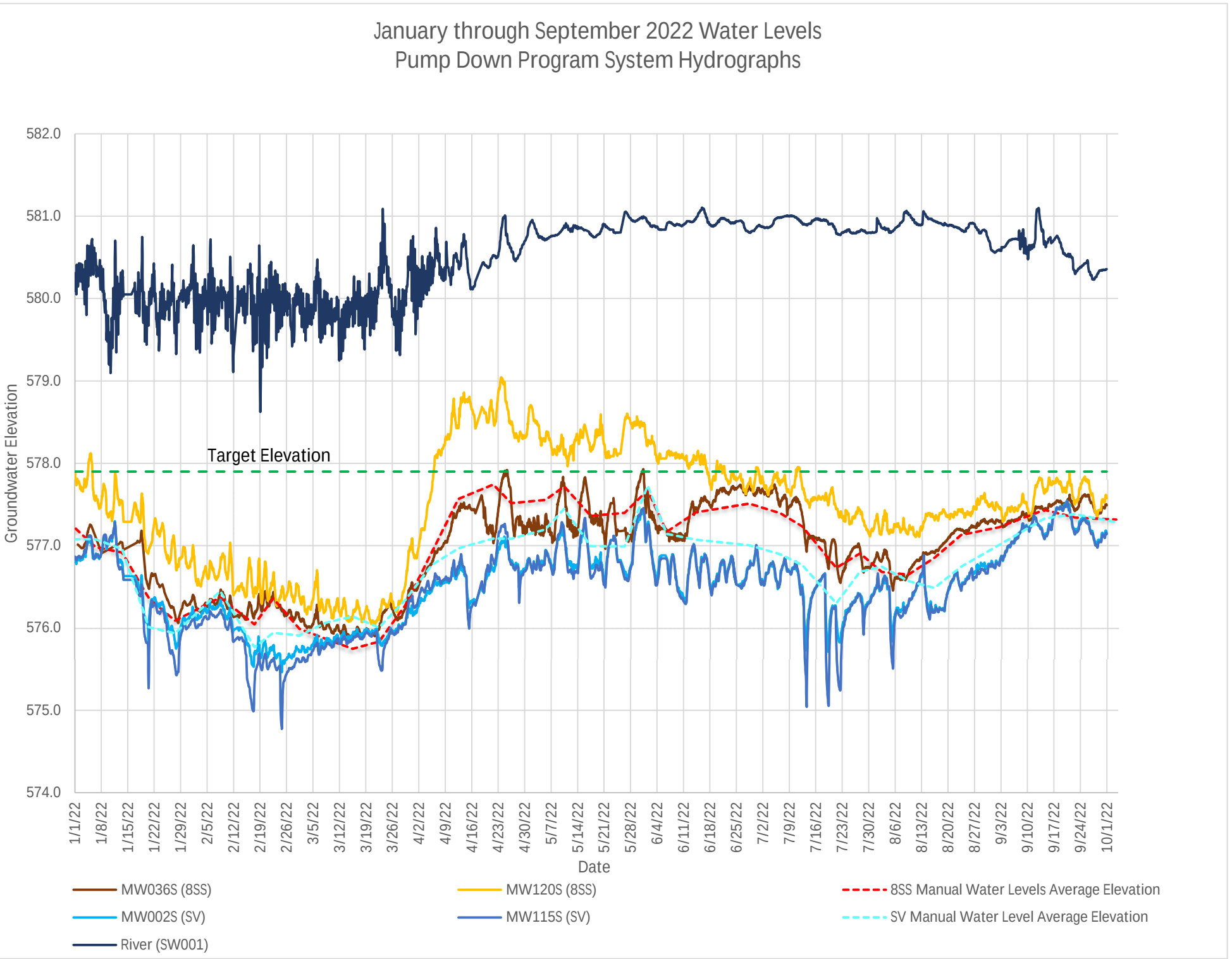
*Wells identified for target elevation calculation are for during the drawdown and interim phases. Only wells outside the steepest portion of the cone of depression will be included in the calculation of the average elevations. The average elevation of all suitable measured wells will be considered the calculated elevation to compare against the target elevation. The number of post-drawdown phase wells used for this calculation may be reduced and will be determined based on results observed during the drawdown phase.

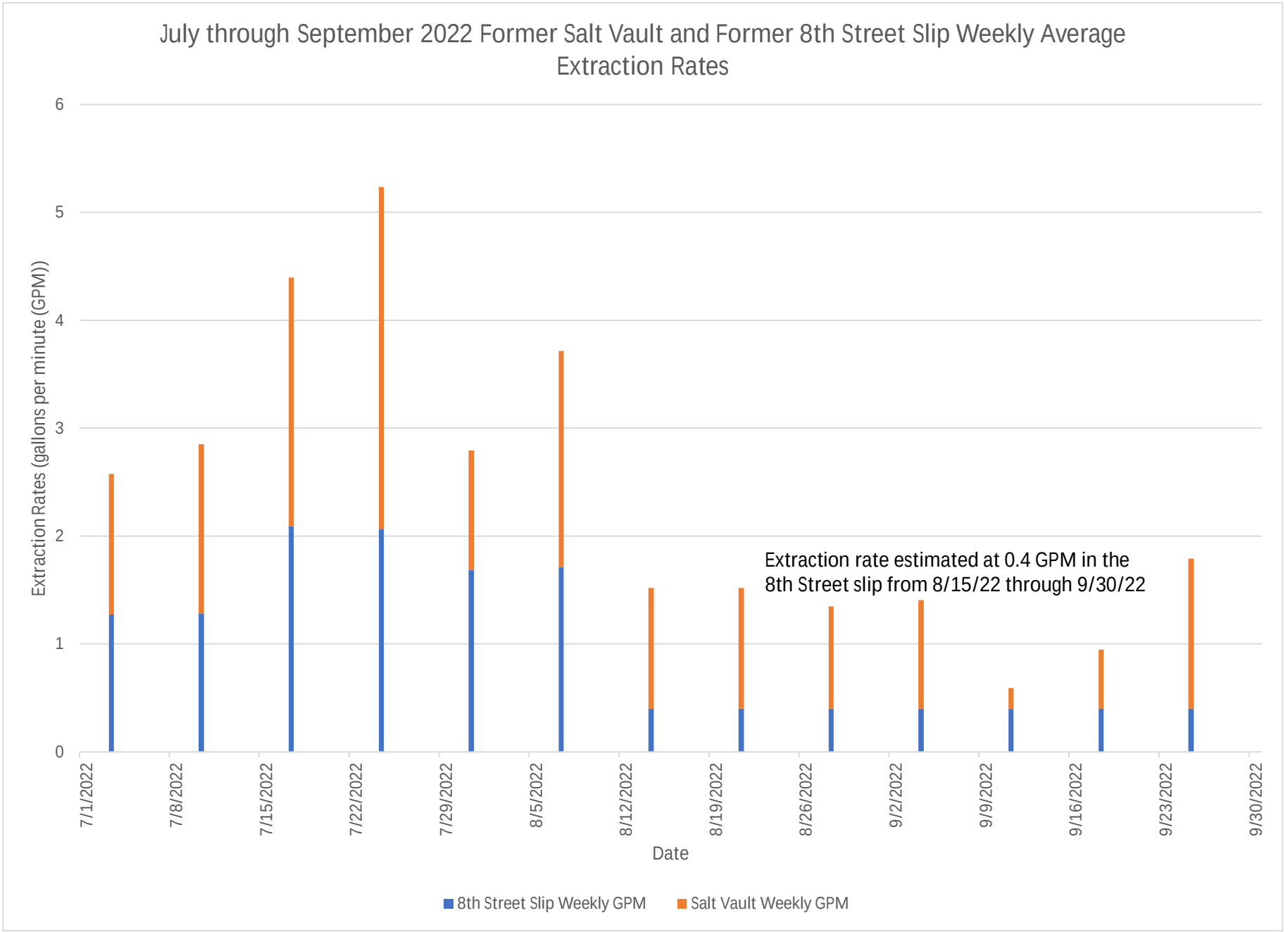
Corrected groundwater elevation is calculated using the 2021 calculated mean conductivity value (from the last 5 years of data)

ID = identification; DTW = depth to water

NM = Not Measured; MW = Monitoring Well

# Attachment 4
# Third Quarter 2022 PDP Pump House System Hydrograph and Pumping Rates


January through September 2022 Water Levels
Pump Down Program System Hydrographs
582.0
581.0
580.0
579.0
578.0
577.0
576.0
575.0
574.0
Groundwater Elevation
Target Elevation
1/1/22
1/8/22
1/15/22
1/22/22
1/29/22
2/5/22
2/12/22
2/19/22
2/26/22
3/5/22
3/12/22
3/19/22
3/26/22
4/2/22
4/9/22
4/16/22
4/23/22
4/30/22
5/7/22
5/14/22
5/21/22
5/28/22
6/4/22
6/11/22
6/18/22
6/25/22
7/2/22
7/9/22
7/16/22
7/23/22
7/30/22
8/6/22
8/13/22
8/20/22
8/27/22
9/3/22
9/10/22
9/17/22
9/24/22
10/1/22
Date
MW036S (8SS)
MW120S (8SS)
8SS Manual Water Levels Average Elevation
MW002S (SV)
MW115S (SV)
SV Manual Water Level Average Elevation
River (SW001)


July through September 2022 Former Salt Vault and Former 8th Street Slip Weekly Average Extraction Rates
Extraction Rates (gallons per minute (GPM))
6
5
4
3
2
1
0
7/1/2022
7/8/2022
7/15/2022
7/22/2022
7/29/2022
8/5/2022
8/12/2022
8/19/2022
8/26/2022
9/2/2022
9/9/2022
9/16/2022
9/23/2022
9/30/2022
Date
Extraction rate estimated at 0.4 GPM in the 8th Street slip from 8/15/22 through 9/30/22
8th Street Slip Weekly GPM
Salt Vault Weekly GPM

# Attachment 5
# Photo Log – Cover Areas D and H Repairs

Project Title: Photo Log – Cover Areas D and H Repairs

Location: Tyco Fire Products LP, Marinette, WI

Date: October 17, 2022

Photograph 1: Cover Area D Asphalt Replacement

*Taken by: Tyco Fire Products LP* *Date taken: August 11, 2022*

Photograph 2: Cover Area H Asphalt Repair

*Taken by: Tyco Fire Products LP* *Date taken: August 19, 2022*

Photograph 3: Cover Area H Asphalt Repair

*Taken by: Tyco Fire Products LP* *Date taken: August 19, 2022*