

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. PA0003255
APS ID 1080765
Authorization ID 1426704

Applicant and Facility Information

Applicant Name	<u>Latrobe Specialty Metals</u>	Facility Name	<u>Latrobe Specialty Metals</u>
Applicant Address	<u>2626 Ligonier Street</u> <u>Latrobe, PA 15650-3246</u>	Facility Address	<u>2626 Ligonier Street</u> <u>Latrobe, PA 15650-3246</u>
Applicant Contact	<u>Christopher Luksic</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>(610) 280-2017</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>84247</u>	Site ID	<u>236435</u>
SIC Code	<u>3312</u>	Municipality	<u>Latrobe Borough</u>
SIC Description	<u>Manufacturing - Blast Furnaces And Steel Mills</u>	County	<u>Westmoreland</u>
Date Application Received	<u>January 26, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of NPDES permit coverage</u>		

Summary of Review

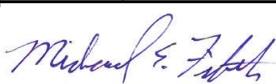
The Department received a renewal individual NPDES permit application for Industrial Stormwater Discharges from Latrobe Specialty Metals (LSM) on January 26, 2023.

LSM is a high-performance, iron-based, remelted, alloy steel manufacturing facility in Latrobe City, Westmoreland County. Processes employed by the facility include melting, forging, rolling, and finishing metal materials. The company produces squares, rounds, and rectangle ingots, billets, and bars.

On July 5, 2018, LSM entered into a Consent Order and Agreement (COA) with the Department. The COA was in response to LSM proposing to construct and expand its indoor facilities, or otherwise provide cover to significantly reduce the amount of reprocessing and recyclable materials exposed to precipitation as well as to install additional best management practices (BMPs) and stormwater management controls. LSM submitted to the Department a work plan and schedule for the facility upgrades, which included, among other things, a project to direct precipitation from the Phoenix Services material recovery area through the West and East stormwater ponds prior to discharging via Outfall 008. As part of its work plan, LSM planned to place a portion of the Phoenix Services area under cover along with reconfiguring the West stormwater pond. The work plan was completed January 2020. The COA automatically terminated in January 2023, three years after completion of all corrective actions in the work plan.

Four (4) inspections have occurred at this facility since the current permit was issued August 1, 2018.

The first inspection was a Compliance Evaluation which occurred November 21, 2019.

Approve	Deny	Signatures	Date
X		 Jamie Ley / Environmental Engineering Specialist	August 30, 2024
X		 Michael E. Fifth, P.E. / Environmental Engineer Manager	August 30, 2024

Summary of Review

The second inspection was a Compliance Evaluation which occurred January 2, 2020. This inspection was in response to LSM reporting on December 20, 2019 that they had discovered elevated pH levels at Outfall 006 while conducting required NPDES stormwater sampling. At the time of this inspection no source for the elevated pH levels had been pinpointed. It was later determined that the leachate pump for the capped slag landfill was inoperable and needed replaced. The leachate pump was replaced February 2020.

The third inspection was an Administrative/File Review which occurred April 12, 2022.

The fourth inspection was a Routine/Partial Inspection which occurred April 13, 2022. The inspection noted that street sweeping is conducted daily, that sediments are being vacuumed, and that silt/sedimentation socks are in use. Reported stormwater projects for 2022 included new gravel installed in laydown areas (Outfalls 002, 004 and 008).

Draft permit issuance is recommended.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>N/A - stormwater</u>
Receiving Waters	<u>Loyalhanna Creek (via CSO at the mouth of Sulfur Run)</u>	Stream Code	<u>43255</u>
NHD Com ID	<u>125292652</u>	RMI	<u>27.3</u>
Drainage Area	<u>N/A</u>	Yield (cfs/mi ²)	<u>N/A</u>
Q ₇₋₁₀ Flow (cfs)	<u>N/A</u>	Q ₇₋₁₀ Basis	<u>N/A</u>
Elevation (ft)	<u>N/A</u>	Slope (ft/ft)	<u>N/A</u>
Watershed No.	<u>18-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>Warm Water Fishery (WWF)</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, METALS, SILTATION, SILTATION, TOTAL SUSPENDED SOLIDS (TSS)</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE, CHANNELIZATION, HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u>Approved – 1/29/2010</u>	Name	<u>Kiskiminetas-Conemaugh TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Buffalo Township Municipal Authority, Freeport</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>2,900</u>
PWS RMI	<u>29.4</u>	Distance from Outfall (mi)	<u>~ 55</u>

Receiving Waters and Water Supply Information

Outfall No.	<u>002</u>	Design Flow (MGD)	<u>N/A - stormwater</u>
Receiving Waters	<u>Loyalhanna Creek (via CSO at Unity Street)</u>	Stream Code	<u>43255</u>
NHD Com ID	<u>125292652</u>	RMI	<u>25.3</u>
Drainage Area	<u>N/A</u>	Yield (cfs/mi ²)	<u>N/A</u>
Q ₇₋₁₀ Flow (cfs)	<u>N/A</u>	Q ₇₋₁₀ Basis	<u>N/A</u>
Elevation (ft)	<u>N/A</u>	Slope (ft/ft)	<u>N/A</u>
Watershed No.	<u>18-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>Warm Water Fishery</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, METALS, SILTATION, SILTATION, TOTAL SUSPENDED SOLIDS (TSS)</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE, CHANNELIZATION, HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u>Approved – 1/29/2010</u>	Name	<u>Kiskiminetas-Conemaugh TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Buffalo Township Municipal Authority, Freeport</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>2,900</u>
PWS RMI	<u>29.4</u>	Distance from Outfall (mi)	<u>~ 55</u>

Receiving Waters and Water Supply Information

Outfall No.	<u>003, 004, 006, 008 & 009</u>	Design Flow (MGD)	<u>N/A - stormwater</u>
Receiving Waters	<u>Loyalhanna Creek</u>	Stream Code	<u>43255</u>
NHD Com ID	<u>125292948</u>	RMI	<u>27.3</u>
Drainage Area	<u>N/A</u>	Yield (cfs/mi ²)	<u>N/A</u>
Q ₇₋₁₀ Flow (cfs)	<u>N/A</u>	Q ₇₋₁₀ Basis	<u>N/A</u>
Elevation (ft)	<u>N/A</u>	Slope (ft/ft)	<u>N/A</u>
Watershed No.	<u>18-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>Warm Water Fishery</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, METALS, SILTATION, SILTATION, TOTAL SUSPENDED SOLIDS (TSS)</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE, CHANNELIZATION, HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u>Approved - 1/29/2010</u>	Name	<u>Kiskiminetas-Conemaugh TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Buffalo Township Municipal Authority, Freeport</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>2,900</u>
PWS RMI	<u>29.4</u>	Distance from Outfall (mi)	<u>~ 55</u>

Discharge Information			
Outfall No.	001 – (14.1 acres)	Design Flow (MGD)	N/A – (stormwater)
Latitude	40° 18' 17.392"	Longitude	-79° 22' 21.892"
Wastewater Description:	Stormwater runoff from the northwestern corner of the Main Plant. Discharge enters a municipal storm/sewage system which overflows into Loyalhanna Creek at the mouth of Sulfur Run.		

Technology-Based Limitations

Stormwater Technology Limits

In accordance with Chapter 6 of the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits*, pH effluent limitations should not be imposed for discharges of stormwater runoff. The guidance recommends the use of 'monitor only' and no numerical limits since it has been documented across the state that rainfall pH is below 6 standard units.

Outfall 001 will be subject to PAG-03 General Stormwater Permit conditions as a minimum requirement. The SIC code for the site is 3312 (Steel Works, Blast Furnaces and Rolling Mills) and the corresponding appendix of the PAG-03 that would apply to the facility is Appendix B (Primary Metals). The reporting requirements applicable to stormwater discharges are shown in Table 1. Along with the monitoring requirements, sector specific BMPs included in Appendix B of the PAG-03 will also be included in Part C of the Draft Permit. The benchmark values listed below are not effluent limitations, and exceedances do not constitute permit violations. However, if the permittee's sampling demonstrates exceedances of benchmark values for two consecutive monitoring periods, the permittee shall submit a Corrective Action Plan. This requirement will be included in Part C of the permit.

Table 1: PAG-03 Appendix B

Parameters	Max Daily Concentration	Measurement Frequency	Sample Type	Benchmark Values
Total Suspended Solids (TSS) (mg/L)	Monitor and Report	1/6 Months	Grab	100.0
Total Nitrogen (mg/L)	Monitor and Report	1/6 Months	Calculation	XXX
Total Phosphorus (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Total Aluminum (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Total Zinc (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Total Copper (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Total Iron (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Total Lead (mg/L)	Monitor and Report	1/6 Months	Grab	XXX
Oil and Grease	Monitor and Report	1/6 Months	Grab	30.0

Barium

The monitoring of barium and molybdenum was instituted in the current permit due to these pollutants not typically being present in stormwater runoff and to gather additional information regarding the quality and quantity of these pollutants in LSM's discharge.

Since the permit was issued in August 2018, additional barium data has been gathered for Outfall 001. The human health criteria of 2.4 mg/L is the most stringent water quality criteria in Chapter 93 for barium. Throughout the current permit cycle, the concentrations of barium at Outfall 001 have been significantly lower than the 2.4 mg/L human health criteria. The max reported barium concentration was 0.4 mg/L. The 2.4 mg/L concentration was never exceeded (see Attachment A). Therefore, the barium monitoring requirement will be removed from Outfall 001.

Molybdenum

Additional molybdenum data was also gathered for Outfall 001. There remains no specific value or reference that the Department intends to compare to the analytical data of molybdenum. During the current permit cycle, the highest yearly

average (0.28 mg/L) and the highest yearly max (0.61 mg/L) values were reported in 2019 for Outfall 001 (see Attachment B). The frequency of molybdenum monitoring will be reduced from monthly to quarterly.

Water Quality-Based Limitations

Stormwater Toxic Pollutants Considerations

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

Discharges to Loyalhanna Creek are within the Kiskiminetas Watershed (“Kiski”) for which the EPA has developed a Total Maximum Daily Load (“TMDL”). The TMDL was finalized on January 29, 2010 and establishes waste load allocations for the discharge of aluminum, iron and manganese to Loyalhanna Creek. Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency’s Water Quality Planning and Management Regulations (codified at Title 40 of the *Code of Federal Regulations* Part 130) require states to develop a TMDL for impaired water bodies. A TMDL establishes the amount of a pollutant that a water body can assimilate without exceeding the water quality criteria for that pollutant. TMDLs provide the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and non-point sources to restore and maintain the quality of the state’s water resources (USEPA 1991a). Stream reaches within the Kiskiminetas Watershed are included in the state’s 2008 Section 303(d) list because of various impairments, including metals, pH and sediment. The TMDL includes consideration for each river and tributary within the target watershed and its impairment sources. Stream data is then used to calculate minimum pollutant reductions that are necessary to attain water quality criteria levels. Target concentrations published in the TMDL were based on established water quality criteria of 0.750 mg/L total recoverable aluminum, 1.5 mg/L total recoverable iron based on a 30-day average and 1.0 mg/L total recoverable manganese. The reduction needed to meet the minimum water quality standards is then divided between each known point and non-point pollutant source in the form of a watershed allocation. The calculation results in a baseline load for each applicable outfall in units of pounds per year. TMDLs prescribe allocations that minimally achieve water quality criteria (i.e., 100 percent use of a stream’s assimilative capacity).

Following elimination of its process water discharges, LSM requested to have its allowable loads reallocated onsite and limited as a total aggregate loading rather than concentration basis. Some of the site outfalls provided far too little load allocation while others provided more than enough. LSM expected that from a site-wide perspective, it would achieve the TMDL load restrictions and ultimately meet the goals of the TMDL under this compliance methodology.

Based on eDMR data submitted during the current permit term, LSM has maintained compliance with the TMDL load restrictions (see Attachment C). It should be noted that the load values for aluminum, iron, and manganese reported in eDMR and those calculated as part of this review differed slightly. Upon inquiry, it was discovered that a logic error in the spreadsheet utilized by LSM was resulting in an incorrect calculation of the monthly loading limits of aluminum, iron, and manganese at each outfall. This error has since been rectified and the eDMRs are to be updated to include the corrected values.

As part of the renewal application, LSM requested a reduction of the monitoring frequency from monthly to quarterly for aluminum, iron, manganese, and TSS for each outfall. LSM stated monthly monitoring creates undue logistical and safety burdens on LSM personnel.

During the previous renewal review, it was agreed that a site-wide aggregate loading would be authorized at LSM in accordance with the requirements of the TMDL and that compliance with the aggregate loading would be evaluated on a monthly basis (12 samples per parameter). A reduction to quarterly monitoring would eliminate two-thirds of the data points and reduce LMS’s ability to address high pollutant loading(s) in a timely and effective manner. However, since LSM has maintained compliance with the TMDL load restrictions during the current permit term, the Department will allow a reduction in monitoring frequency from monthly to quarterly for aluminum, iron, and manganese. A new generic outfall, Outfall 099, was created for LSM to report its TMDL loading requirements for aluminum, iron, and manganese. In addition, the aggregate loadings will now be evaluated on an annual basis (sum of 4 samples per calendar year) and will be reported under Outfall 099 due to limitations of Department tracking systems.

LSM also requested that the Department set a mass loading limit for TSS as was done previously for aluminum, iron, and manganese. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

As stated in the Acid Mine Drainage TMDLs for the Kiskiminetas-Conemaugh River Watershed, a strong, positive correlation between TSS and total iron and aluminum was identified. The relationship was further described and plotted graphically in Appendix H. The particulate iron – TSS regression slopes were ranked from least to greatest and then grouped into three categories (slope categories). The average of each slope group was used to establish the iron/sediment relationship.

Loyalhanna Creek is classified under Group 2 medium slope subject watersheds. A ratio of TSS to total iron was identified for Group 2 as 10.3:1.

LSM derived a TSS loading limit from the total iron allocation presented in Appendix G and the Appendix H ratio of the Acid Mine Drainage TMDLs for the Kiskiminetas-Conemaugh River Watershed.

10.3	lb. TSS	15,714	lb. Fe	161,854	lb. TSS
	lb. Fe		yr.		yr.

LSM requested the application of this derived TSS limit as a rolling total allocation for the facility stormwater discharges.

TSS is an indicator pollutant which serves well to reveal the adequacy of onsite best management practices. Effluent limitations for TSS are readily achievable through the utilization of BMPs including routine street sweeping, adequate housekeeping and material handling practices, catch basin inlet protections, stormwater drainage line cleaning, and stormwater sedimentation technologies. During the current permit term, the facility reported the following:

TSS August 2018-April 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
001	604	79.79	40
002	555	78.78	51
003	384	97.11	78
004	1030	139.10	102
006	377	32.92	10
008	263	20.47	8.5
009	1710	68.50	14

During 2022-2023, the facility reported the following:

TSS 2022			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
001	198	60.50	43.5
002	170	67.82	52
003	170	88.45	76
004	1030*	201.91	120
006	101	32.73	16
008	162	25.91	8
009	38	19.60	16

*February 2022 data point – collected after heavy snow that resulted in unpaved roadway and laydown area disturbances from plowing and application of road salt and antiskid

TSS 2023			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
001	114	44.22	32
002	154	55.00	26
003	277	77.00	46
004	193	84.91	75
006	94	13.00	4
008	114	17.82	5
009	28	7.60	5

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. The current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit. However, the Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 001.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 2: Current Permit Effluent Limitations for Outfall 001

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total (Outfall 001 only)	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total (Outfall 001 only)	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total (Outfall 001 only)	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Barium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Precipitation (in.)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Recorded
Total Aluminum (Total Facility Load)	Report	6,530	XXX	XXX	XXX	XXX	1/Month	Calculation
Total Iron (Total Facility Load)	Report	15,714	XXX	XXX	XXX	XXX	1/Month	Calculation
Total Manganese (Total Facility Load)	Report	8,709	XXX	XXX	XXX	XXX	1/Month	Calculation

Discharge Information			
Outfall No.	<u>002 – (17.6 acres)</u>	Design Flow (MGD)	<u>N/A – (stormwater)</u>
Latitude	<u>40° 18' 6.418"</u>	Longitude	<u>-79° 22' 15.523"</u>
Wastewater Description:	<u>Stormwater runoff from the southern corner of the Main Plant. Discharge enters a municipal storm/sewage system which overflows into Loyalhanna Creek at the mouth of Sulfur Run.</u>		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Fluoride

Fluoride monitoring was instituted in the current permit due to previously reported elevated pollutant concentrations and to evaluate this pollutant more thoroughly. In the renewal application, LSM stated that hydrofluoric acid pickling at the facility was discontinued years ago. As part of the renewal application, LSM requested that fluoride monitoring be removed.

Throughout the current permit cycle, the concentrations of fluoride at Outfall 002 were often significantly lower than the 1.8 mg/L benchmark. The benchmark was exceeded only once throughout the previous permit cycle (see Attachment D). The exceedance was not four times the 1.8 mg/L benchmark. Therefore, the fluoride monitoring requirement will be removed.

Molybdenum

As previously stated, molybdenum monitoring was instituted in the current permit due to this pollutant not typically being present in stormwater runoff and to gather additional information regarding the quality and quantity of this pollutant in LSM's discharge.

Since the current permit was issued in August 2018, additional molybdenum data was gathered for Outfall 002. During the current permit cycle, the highest yearly average (0.57 mg/L) and the highest yearly max (1.29 mg/L) values were reported in 2019 for Outfall 002 (see Attachment B). There remains no specific value or reference that the Department intends to compare to the analytical data of molybdenum. The frequency of molybdenum monitoring will be reduced from monthly to quarterly.

Zinc

Zinc monitoring was instituted in the current permit due to previously reported elevated pollutant concentrations and to evaluate this pollutant more thoroughly. In the renewal application, LSM proposed the removal of the zinc benchmark.

Based on reported eDMR zinc concentrations, the values consistently exceed the permit benchmark of 0.117 mg/L. In December 2018, LSM submitted a Corrective Action Plan (CAP) to address zinc exceedances at Outfall 002 and TSS exceedances at Outfall 004. Within the CAP, LSM discussed various housekeeping practices to reduce zinc and TSS concentrations.

The 2018 CAP also discussed the sampling of rock dust used on-site as a ground cover for certain lay-down areas within the Outfall 002 drainage area. It was reported that the rock dust contained 34 ppm zinc. It was proposed that LSM would review scrap, raw materials, and chemical additives for zinc levels along with resampling the rock dust in order to identify a potential source of zinc onsite.

In March 2019, a 90-Day Corrective Action Document was submitted to the Department. The document stated that the rock dust contains zinc at an averaged concentration of 30.8 ppm. LSM identified the rock dust as the only possible contributor to the zinc levels measured in the stormwater discharge from Outfall 002. The Department acknowledged LSM's determination of a zinc source and waived the requirement to submit zinc-specific corrective actions. The Department

concluded that the data seemed to indicate a correlation between zinc and TSS concentrations and that successful control of TSS should also control zinc.

Therefore, the zinc benchmark will be removed. A monitoring requirement for zinc will remain due to the inclusion of zinc in the monitored pollutants of PAG-03 Appendix B. In addition, the frequency of zinc monitoring at Outfall 002 will be reduced from monthly to quarterly.

Water Quality-Based Limitations

Stormwater Toxic Pollutants Considerations

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet.

As stated above, LSM requested the application of a derived TSS mass loading limit from the Kiski-Conemaugh River Watershed TMDL as a rolling total allocation for the facility stormwater discharges. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. The current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit. However, the Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 002.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 3: Current Permit Effluent Limitations for Outfall 002

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Fluoride, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Discharge Information			
Outfall No.	<u>003 – (15.5 acres)</u>	Design Flow (MGD)	<u>N/A – (stormwater)</u>
Latitude	<u>40° 17' 47.906"</u>	Longitude	<u>-79° 22' 6.16"</u>
Wastewater Description:	<u>Stormwater runoff from the south side of the Continuous Rolling Mill Building.</u>		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Fluoride

As previously stated, fluoride monitoring was instituted in the current permit due to previously reported elevated pollutant concentrations and to evaluate this pollutant more thoroughly. In the renewal application, LSM stated that hydrofluoric acid pickling at the facility was discontinued years ago. As part of the renewal application, LSM requested that fluoride monitoring be removed.

Since the current permit was issued in August 2018, the concentrations of fluoride at Outfall 003 are significantly lower than the 1.8 mg/L benchmark (see Attachment D). The benchmark was never exceeded during the five-year period. Therefore, the fluoride monitoring requirement will be removed.

Molybdenum

As previously stated, molybdenum monitoring was instituted in the current permit due to this pollutant not typically being present in stormwater runoff and to gather additional information regarding the quality and quantity of this pollutant in LSM's discharge.

Since the current permit was issued in August 2018, additional molybdenum data was gathered for Outfall 003. During the current permit cycle, the highest yearly average (0.4 mg/L) and the highest yearly max (0.91 mg/L) values were reported in 2019 for Outfall 003 (see Attachment B). There remains no specific value or reference that the Department intends to compare the analytical data of molybdenum. The frequency of molybdenum monitoring will be reduced from monthly to quarterly.

Water Quality-Based Limitations

Stormwater Toxic Pollutants Considerations

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet.

As stated above, LSM requested the application of a derived TSS mass loading limit from the Kiski-Conemaugh River Watershed TMDL as a rolling total allocation for the facility stormwater discharges. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. However, the current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility

improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit. However, the Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 003.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 4: Current Permit Effluent Limitations for Outfall 003

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Fluoride, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Discharge Information			
Outfall No.	<u>004 – (17.6 acres)</u>	Design Flow (MGD)	<u>N/A – (stormwater)</u>
Latitude	<u>40° 17' 52.947"</u>	Longitude	<u>-79° 22' 26.583"</u>
Wastewater Description:	<u>Stormwater runoff from the southwestern corner of the Melt Shop</u>		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Molybdenum

As previously stated, molybdenum monitoring was instituted in the current permit due to this pollutant not typically being present in stormwater runoff and to gather additional information regarding the quality and quantity of this pollutant in LSM's discharge.

Since the current permit was issued in August 2018, additional molybdenum data was gathered for Outfall 004. During the current permit cycle, the highest yearly average (0.62 mg/L) and the highest yearly max (1.01 mg/L) values were reported in 2019 for Outfall 004 (see Attachment B). There remains no specific value or reference that the Department intends to compare the analytical data of molybdenum. The frequency of molybdenum monitoring will be reduced from monthly to quarterly.

Water Quality-Based Limitations

Stormwater Toxic Pollutants Considerations

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet.

As stated above, LSM requested the application of a derived TSS mass loading limit from the Kiski-Conemaugh River Watershed TMDL as a rolling total allocation for the facility stormwater discharges. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. The current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit.

From 2022-2023, Outfall 004 reported twelve (12) exceedances of the TSS benchmark. These exceedances were often consecutive, and one (1) exceedance reported in February 2022 was greater than four (4) times the TSS benchmark of 100 mg/L, although it was noted in the renewal application that this was unrepresentative due to sample collection occurring after a heavy snow which resulted in unpaved roadway and laydown area disturbances from plowing and the application of road salt and antiskid. Exceedances of the TSS benchmark were reported for January, February, and April of 2024.

The Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 004. However, in order to address the continued TSS exceedances at Outfall 004, after any reported TSS benchmark exceedance at Outfall 004, the permittee shall submit a Corrective Action Plan. This requirement will be included in Part C of the permit.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 5: Current Permit Effluent Limitations for Outfall 004

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Discharge Information			
Outfall No.	006 – (4.2 acres)	Design Flow (MGD)	N/A – (stormwater)
Latitude	40° 17' 45.281"	Longitude	-79° 22' 29.813"
Wastewater Description:	Stormwater runoff from the closed/capped slag landfill		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Water Quality-Based Limitations

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet.

As stated above, LSM requested the application of a derived TSS mass loading limit from the Kiski-Conemaugh River Watershed TMDL as a rolling total allocation for the facility stormwater discharges. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. The current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit. However, the Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 006.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 6: Current Permit Effluent Limitations for Outfall 006

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Discharge Information			
Outfall No.	<u>008 – (23.5 acres)</u>	Design Flow (MGD)	<u>N/A – (stormwater)</u>
Latitude	<u>40° 17' 52.69"</u>	Longitude	<u>-79° 22' 33.419"</u>
Wastewater Description:	<u>Stormwater runoff from Phoenix Services material recovery area</u>		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Molybdenum

As previously stated, molybdenum monitoring was instituted in the current permit due to this pollutant not typically being present in stormwater runoff and to gather additional information regarding the quality and quantity of this pollutant in LSM's discharge.

Additional molybdenum data was also gathered for Outfall 008. During the current permit cycle, the highest yearly average (0.18 mg/L) and the highest yearly max (0.36 mg/L) values were reported in 2022 for Outfall 008 (see Attachment B). There remains no specific value or reference that the Department intends to compare the analytical data of molybdenum. The frequency of molybdenum monitoring will be reduced from monthly to quarterly.

Water Quality-Based Limitations

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006, Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL & TSS Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet.

As stated above, LSM requested the application of a derived TSS mass loading limit from the Kiski-Conemaugh River Watershed TMDL as a rolling total allocation for the facility stormwater discharges. The TSS mass loading limit would then replace the stormwater benchmark monitoring requirements specified in the current permit.

The Department acknowledges that LSM has put considerable investment and effort into their facility to achieve site-wide compliance and as a result, it appears that the TSS discharge concentrations at the majority of the facility's outfalls have generally decreased. The current TSS benchmark of 100 mg/L and accompanying corrective action requirements serve as mechanisms for the facility to continue to strive to achieve site-wide compliance and implement additional facility improvements. Therefore, the Department rejects LSM's proposal for a TSS aggregate loading limit. However, the Department agrees to LSM's request to reduce the monitoring frequency of TSS from monthly to quarterly at Outfall 008.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 7: Current Permit Effluent Limitations for Outfall 008

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Discharge Information			
Outfall No.	<u>009 – (0.9 acres)</u>	Design Flow (MGD)	<u>N/A – (stormwater)</u>
Latitude	<u>40° 17' 51.436"</u>	Longitude	<u>-79° 22' 27.670"</u>
Wastewater Description:	<u>Stormwater runoff from the northern section of the closed/capped slag landfill</u>		

Technology-Based Limitations

Stormwater Technology Limits

pH and PAG-03 Appendix B requirements are proposed under the same premise detailed for Outfall 001 on page 6 of this Fact Sheet.

Representative Outfall Designation

As part of the renewal application, LSM requested Outfall 006 serve as the designated representative outfall for Outfall 009.

The drainage area of Outfall 006 encompasses 180,00 ft² from the closed/capped slag landfill. The drainage area of Outfall 009 encompasses 39,000 ft² of the closed/capped slag landfill northern berm and roadway. Both outfalls sample for aluminum, iron, manganese, pH, and TSS.

The Department conducted a Compliance Evaluation of the facility January 2, 2020. This inspection was in response to LSM reporting on December 20, 2019 that they had discovered elevated pH levels at Outfall 006 while conducting required NPDES stormwater sampling. At the time of this inspection no source for the elevated pH levels had been pinpointed. It was later determined that the leachate pump for the capped slag landfill was inoperable and needed replaced.

On January 28, 2020 LSM and their consultant Civil and Environmental Consultants (CEC) met with representatives of PADEP’s Water Quality and Waste Management bureaus to discuss the problems surrounding landfill leachate commingling with the facility’s stormwater runoff. By March 2021, the following actions were completed:

Outfall 006:

- Install an additional leachate collection point with cleanout at the southwest corner of the landfill
- Extend the landfill liner at the southwest corner of the landfill to the stormwater drainage ditch and connect to the NPDES outfall 006 sampling weir
- Rework the stormwater drainage ditch and add new rip-wrap stone and reno-mattresses
- Install leachate line clean out points along south facing stormwater ditch
- Install new valves on the leachate line
- Cleaned existing leachate collection lines

Outfall 009

- Install cleanouts on gravity leachate collection lines.
- Install cleanout on the pressure leachate transfer lines
- Top dress exposed liner with new rip-wrap
- Replace leachate pump and float switches

Since these improvements were completed, Outfalls 006 and 009 often report similar concentrations of aluminum, iron, manganese, pH, and TSS (see Attachment E). Often the max concentrations reported at Outfall 009 are lower than concentrations reported for Outfall 006. Therefore, the Department accepts LSM’s request for Outfall 006 to serve as the representative outfall for Outfall 009.

Water Quality-Based Limitations

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfalls 001-004, Outfall 006,

Outfall 008, and Outfall 009 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

TMDL Considerations

TMDL considerations are discussed on page 7 of this Fact Sheet. In addition, due to the representation of Outfall 009 by Outfall 006, the drainage area of Outfall 009 will be combined with the drainage area of Outfall 006. This combined drainage area will be utilized along with the concentrations reported for Outfall 006 to calculate a combined loading. The calculated combined loading will be reported under Outfall 006.

Anti-Backsliding

The limitations in the site's current permit, PA0003255, can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l).

Table 8: Current Permit Effluent Limitations for Outfall 009

Parameters	Mass (Lbs)		Concentration (mg/L)				Monitoring Requirements	
	Total Monthly	Total Annual	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Frequency	Sample Type
Flow (Mgal)	Report	Report	XXX	XXX	XXX	XXX	1/Month	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Aluminum, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Iron, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab
Manganese, Total	Report	XXX	XXX	XXX	Report	XXX	1/Month	Grab

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 001

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Compliance Sampling Location: At Outfall 002

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 003

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 004

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

Outfall 006, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

**NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals**

NPDES Permit No. PA0003255

Compliance Sampling Location: At Outfall 006

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 008, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Flow (Total Outfall Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Aluminum (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Iron (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Manganese, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
Total Manganese (Total Outfall Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Molybdenum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 008

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 099, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Total Quarterly	Total Annual	Minimum	Average Monthly	Maximum	Instant. Maximum		
Total Flow (Total Facility Volume, Mgal)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Total Precipitation (In)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Recorded
Total Aluminum (Total Facility Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Total Iron (Total Facility Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Total Manganese (Total Facility Load, lbs)	Report ⁽¹⁾	XXX	XXX	XXX	XXX	XXX	1/quarter	Calculation
Total Flow (Total Facility Volume, Mgal)	XXX	Report ⁽¹⁾	XXX	XXX	XXX	XXX	1/year	Calculation
Total Precipitation (In)	XXX	Report ⁽¹⁾	XXX	XXX	XXX	XXX	1/year	Recorded
Total Aluminum (Total Facility Load, lbs)	XXX	6530	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (Total Facility Load, lbs)	XXX	15714	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (Total Facility Load, lbs)	XXX	8709	XXX	XXX	XXX	XXX	1/year	Calculation

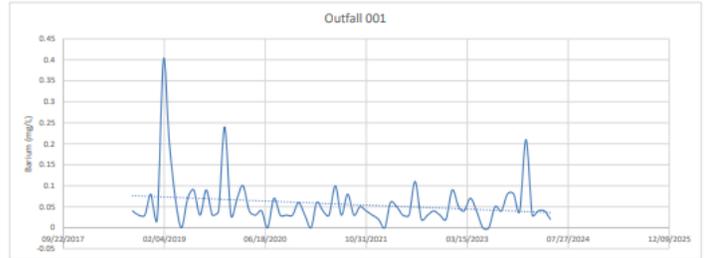
Compliance Sampling Location: Entire Facility – Outfall Created for Reporting of Facility TMDL Loading Requirements

Other Comments:

Attachment A – Barium Evaluation

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SEC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	001	Final Effluent	Barium, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	001	Final Effluent	Barium, Total	mg/L	0.02	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.4	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	E	Monitor and Report	Daily Maximum		
05/01/2019	05/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2019	09/30/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2019	11/30/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.24	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2019	12/31/2019	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2020	01/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2020	06/30/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2020	07/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2020	10/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2020	11/30/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2020	12/31/2020	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.4	0.06	0.04



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.4	0.12	0.07	0.1	0.05	0.04

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.1	0.05	0.04	0.11	0.05	0.03

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.21	0.07	0.05	0.04	0.03	0.035

**NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals**

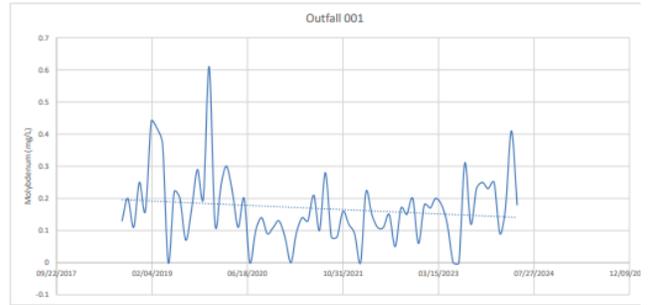
NPDES Permit No. PA0003255

01/01/2021	01/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	E	Monitor and Report	Daily Maximum		
02/01/2021	02/28/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1month	Grab
03/01/2021	03/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
04/01/2021	04/30/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
05/01/2021	05/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1month	Grab
06/01/2021	06/30/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
07/01/2021	07/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1month	Grab
08/01/2021	08/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
09/01/2021	09/30/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.05	Monitor and Report	Daily Maximum	1month	Grab
10/01/2021	10/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
11/01/2021	11/30/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
12/01/2021	12/31/2021	Monthly	001	Final Effluent	Barium, Total	mg/L	0.02	Monitor and Report	Daily Maximum	1month	Grab
01/01/2022	01/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	FF	Monitor and Report	Daily Maximum		
02/01/2022	02/28/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1month	Grab
03/01/2022	03/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.05	Monitor and Report	Daily Maximum	1month	Grab
04/01/2022	04/30/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
05/01/2022	05/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
06/01/2022	06/30/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1month	Grab
07/01/2022	07/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.02	Monitor and Report	Daily Maximum	1month	Grab
08/01/2022	08/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
09/01/2022	09/30/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
10/01/2022	10/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
11/01/2022	11/30/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.02	Monitor and Report	Daily Maximum	1month	Grab
12/01/2022	12/31/2022	Monthly	001	Final Effluent	Barium, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1month	Grab
01/01/2023	01/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.05	Monitor and Report	Daily Maximum	1month	Grab
02/01/2023	02/28/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
03/01/2023	03/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1month	Grab
04/01/2023	04/30/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
05/01/2023	05/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	E	Monitor and Report	Daily Maximum		
06/01/2023	06/30/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2023	07/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.05	Monitor and Report	Daily Maximum	1month	Grab
08/01/2023	08/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
09/01/2023	09/30/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1month	Grab
10/01/2023	10/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1month	Grab
11/01/2023	11/30/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
12/01/2023	12/31/2023	Monthly	001	Final Effluent	Barium, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1month	Grab
01/01/2024	01/31/2024	Monthly	001	Final Effluent	Barium, Total	mg/L	0.03	Monitor and Report	Daily Maximum	1month	Grab
02/01/2024	02/29/2024	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
03/01/2024	03/31/2024	Monthly	001	Final Effluent	Barium, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1month	Grab
04/01/2024	04/30/2024	Monthly	001	Final Effluent	Barium, Total	mg/L	0.02	Monitor and Report	Daily Maximum	1month	Grab

Attachment B – Molybdenum Evaluation

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SEC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	09/30/2018	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.44	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.42	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.37	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
05/01/2019	05/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2019	09/30/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.29	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2019	11/30/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.61	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2019	12/31/2019	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2020	01/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.24	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2020	06/30/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2020	07/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2020	10/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2020	11/30/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2020	12/31/2020	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.61	0.18	0.17



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.61	0.28	0.22	0.3	0.16	0.13

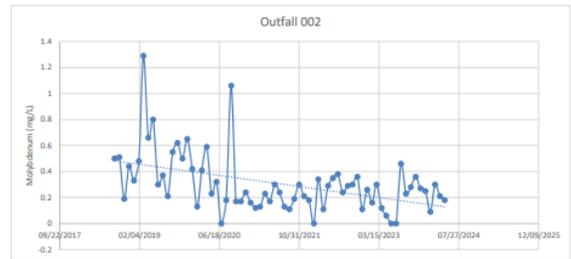
2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.28	0.13	0.12	0.22	0.14	0.15

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.31	0.21	0.215	0.41	0.21	0.175

01/01/2021	01/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
02/01/2021	02/28/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2021	03/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2021	04/30/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2021	05/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2021	06/30/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2021	07/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.28	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2021	08/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2021	09/30/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.08	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2021	10/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2021	11/30/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2021	12/31/2021	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2022	01/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	FF	Monitor and Report	Daily Maximum		
02/01/2022	02/28/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2022	03/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2022	04/30/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2022	05/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2022	06/30/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2022	07/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.05	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2022	08/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2022	09/30/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2022	10/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2022	11/30/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2022	12/31/2022	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2023	01/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2023	02/28/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2023	03/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2023	04/30/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2023	05/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
06/01/2023	06/30/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2023	07/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.31	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2023	08/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2023	09/30/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.23	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2023	10/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2023	11/30/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.23	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2023	12/31/2023	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2024	01/31/2024	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2024	02/29/2024	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2024	03/31/2024	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.41	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2024	04/30/2024	Monthly	001	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SEC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.5	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.51	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.19	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.44	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.33	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.48	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	1.29	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.66	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.8	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2019	05/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.37	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.55	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2019	09/30/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.62	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.5	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2019	11/30/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.65	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2019	12/31/2019	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.42	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2020	01/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.41	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.59	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.23	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.32	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2020	06/30/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2020	07/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	1.06	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2020	10/31/2020	Monthly	002	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
1.29	0.32	0.28



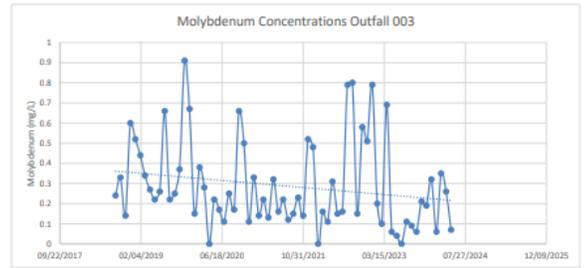
2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
1.29	0.57	0.525	1.06	0.33	0.23

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.3	0.19	0.185	0.38	0.28	0.29

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.46	0.25	0.26	0.3	0.20	0.195

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 desc	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.24	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.33	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.6	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.52	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.44	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.34	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.27	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2019	05/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.26	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.66	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2019	09/30/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.37	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.91	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2019	11/30/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.67	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2019	12/31/2019	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2020	01/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.38	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.28	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2020	06/30/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2020	07/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.66	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2020	10/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.5	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2020	11/30/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.91	0.30	0.225



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.91	0.40	0.305	0.66	0.29	0.25

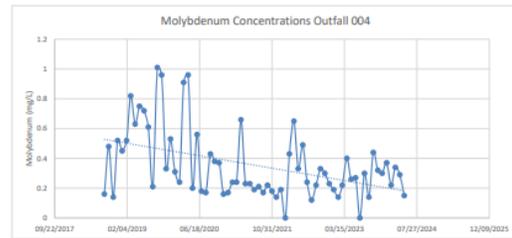
2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.52	0.24	0.19	0.8	0.41	0.31

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.69	0.19	0.11	0.35	0.19	0.165

12/01/2020	12/31/2020	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.33	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2021	01/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2021	02/28/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2021	03/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2021	04/30/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.32	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2021	05/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2021	06/30/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2021	07/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2021	08/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2021	09/30/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.23	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2021	10/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2021	11/30/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.52	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2021	12/31/2021	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.48	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2022	01/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	FF	Monitor and Report	Daily Maximum		
02/01/2022	02/28/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2022	03/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2022	04/30/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.31	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2022	05/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2022	06/30/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2022	07/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.79	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2022	08/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.8	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2022	09/30/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2022	10/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.58	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2022	11/30/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.51	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2022	12/31/2022	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.79	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2023	01/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2023	02/28/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2023	03/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.69	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2023	04/30/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2023	05/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.04	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2023	06/30/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2023	07/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2023	08/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2023	09/30/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2023	10/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2023	11/30/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.19	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2023	12/31/2023	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.32	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2024	01/31/2024	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.06	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2024	02/29/2024	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.35	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2024	03/31/2024	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.28	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2024	04/30/2024	Monthly	003	Final Effluent	Molybdenum, Total	mg/L	0.07	Monitor and Report	Daily Maximum	1/month	Grab

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER CODE	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SBC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.16	Monitor and Report Maximum	Daily	1/month	Grab
09/01/2018	09/30/2018	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.48	Monitor and Report Maximum	Daily	1/month	Grab
10/01/2018	10/31/2018	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.14	Monitor and Report Maximum	Daily	1/month	Grab
11/01/2018	11/30/2018	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.52	Monitor and Report Maximum	Daily	1/month	Grab
12/01/2018	12/31/2018	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.45	Monitor and Report Maximum	Daily	1/month	Grab
01/01/2019	01/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.52	Monitor and Report Maximum	Daily	1/month	Grab
02/01/2019	02/28/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.82	Monitor and Report Maximum	Daily	1/month	Grab
03/01/2019	03/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.63	Monitor and Report Maximum	Daily	1/month	Grab
04/01/2019	04/30/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.75	Monitor and Report Maximum	Daily	1/month	Grab
05/01/2019	05/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.72	Monitor and Report Maximum	Daily	1/month	Grab
06/01/2019	06/30/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.61	Monitor and Report Maximum	Daily	1/month	Grab
07/01/2019	07/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.21	Monitor and Report Maximum	Daily	1/month	Grab
08/01/2019	08/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	1.01	Monitor and Report Maximum	Daily	1/month	Grab
09/01/2019	09/30/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.96	Monitor and Report Maximum	Daily	1/month	Grab
10/01/2019	10/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.33	Monitor and Report Maximum	Daily	1/month	Grab
11/01/2019	11/30/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.53	Monitor and Report Maximum	Daily	1/month	Grab
12/01/2019	12/31/2019	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.31	Monitor and Report Maximum	Daily	1/month	Grab
01/01/2020	01/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.24	Monitor and Report Maximum	Daily	1/month	Grab
02/01/2020	02/29/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.91	Monitor and Report Maximum	Daily	1/month	Grab
03/01/2020	03/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.96	Monitor and Report Maximum	Daily	1/month	Grab
04/01/2020	04/30/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.2	Monitor and Report Maximum	Daily	1/month	Grab
05/01/2020	05/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.56	Monitor and Report Maximum	Daily	1/month	Grab
06/01/2020	06/30/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.18	Monitor and Report Maximum	Daily	1/month	Grab
07/01/2020	07/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.17	Monitor and Report Maximum	Daily	1/month	Grab
08/01/2020	08/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.43	Monitor and Report Maximum	Daily	1/month	Grab
09/01/2020	09/30/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.38	Monitor and Report Maximum	Daily	1/month	Grab
10/01/2020	10/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.37	Monitor and Report Maximum	Daily	1/month	Grab
11/01/2020	11/30/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.16	Monitor and Report Maximum	Daily	1/month	Grab
12/01/2020	12/31/2020	Monthly	004	Final Effluent	01062	Molybdenum, Total	mg/L	0.17	Monitor and Report Maximum	Daily	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
1.01	0.37	0.30



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
1.01	0.62	0.62	0.96	0.39	0.305

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.66	0.24	0.215	0.65	0.32	0.3

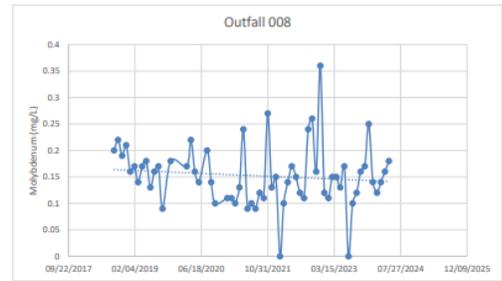
2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.44	0.29	0.3	0.34	0.25	0.255

**NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals**

NPDES Permit No. PA0003255

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SBC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.19	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.21	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2019	05/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.22	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2020	07/31/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2020	12/31/2020	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2021	01/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2021	02/28/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2021	03/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.36	0.16	0.15



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.18	0.15	0.17	0.22	0.16	0.15

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.27	0.14	0.115	0.36	0.18	0.15

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.25	0.15	0.15	0.18	0.15	0.15

**NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals**

NPDES Permit No. PA0003255

04/01/2021	04/30/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.24	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2021	05/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2021	06/30/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2021	07/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.09	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2021	08/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2021	09/30/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2021	10/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.27	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2021	11/30/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2021	12/31/2021	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2022	01/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	FF	Monitor and Report	Daily Maximum		
02/01/2022	02/28/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2022	03/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2022	04/30/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2022	05/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2022	06/30/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2022	07/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2022	08/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.24	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2022	09/30/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.26	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2022	10/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2022	11/30/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.36	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2022	12/31/2022	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2023	01/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.11	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2023	02/28/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2023	03/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.15	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2023	04/30/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.13	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2023	05/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2023	06/30/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	E	Monitor and Report	Daily Maximum		
07/01/2023	07/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2023	08/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2023	09/30/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2023	10/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.17	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2023	11/30/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.25	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2023	12/31/2023	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2024	01/31/2024	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.12	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2024	02/29/2024	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.14	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2024	03/31/2024	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.16	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2024	04/30/2024	Monthly	008	Final Effluent	Molybdenum, Total	mg/L	0.18	Monitor and Report	Daily Maximum	1/month	Grab

Attachment C – Aluminum, Iron, and Manganese TMDL Loading Limits Evaluation

Monitoring Start Date	Monitoring End Date	Outfall 001 AI (lb/mo)			Outfall 002 AI (lb/mo)			Outfall 003 AI (lb/mo)			Outfall 004 AI (lb/mo)			Outfall 006 AI (lb/mo)			Outfall 008 AI (lb/mo)			Outfall 009 AI (lb/mo)			Monthly Total			12-Month Rolling Sum (lb/mo)			Limit (lb/yr)			
		eDMR	LSM Rev	DEP Calc	eDMR	LSM Rev	DEP Calc	eDMR	LSM Rev	DEP Calc		eDMR	LSM Rev	DEP Calc																		
01/01/2019	01/31/2019	1.93	1.93	1.93	0.31	0.31	0.31	0.20	0.20	0.20	1.58	1.58	1.58	0.00	0.00	0.00	0.30	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	4.4	4.4	4.4	6530			
02/01/2019	02/28/2019	114.99	114.99	114.97	172.64	172.64	172.55	91.26	91.26	91.12	304.6	304.6	305.3	0.00	0.00	0.00	11.53	11.53	11.52	0.00	0.00	0.00	0.00	0.00	0.00	695	695	695	6530			
03/01/2019	03/31/2019	3.31	3.31	3.25	5.34	5.34	5.23	1.26	1.26	1.26	16.44	16.44	16.07	0.00	0.00	0.00	1.06	1.06	1.06	0.00	0.00	0.00	0.00	0.00	27.4	27.4	26.0	6530				
04/01/2019	04/30/2019	0.00	0.00	0.00	26.71	26.51	34.97	25.75	25.59	33.65	37.49	37.83	42.06	0.15	0.15	0.29	3.56	3.46	6.93	0.00	0.00	0.00	0.00	0.00	95.7	95.7	117.9	6530				
05/01/2019	05/31/2019	7.88	7.88	7.89	20.05	20.05	20.09	9.89	9.89	9.89	3.98	40.82	40.82	40.80	0.00	0.00	18.75	18.75	18.78	0.00	0.00	0.00	0.00	0.00	97.4	97.4	97.4	6530				
06/01/2019	06/30/2019	2.24	2.24	2.24	9.97	9.97	9.97	13.52	13.52	13.53	36.17	35.17	35.19	0.39	0.39	0.39	13.05	13.04	13.05	0.00	0.00	0.00	0.00	0.00	74.3	74.3	74.4	6530				
07/01/2019	07/31/2019	4.76	4.76	4.76	10.59	10.59	10.60	26.13	26.13	26.14	41.69	41.69	41.72	0.42	0.42	0.42	19.80	19.80	19.82	1.14	1.14	1.14	1.14	1.14	105	105	105	6530				
08/01/2019	08/31/2019	7.62	12.61	12.62	7.87	13.03	13.03	9.93	16.44	16.45	40.26	66.65	66.69	0.00	0.00	3.17	5.25	5.25	0.25	0.30	0.30	0.30	0.30	69.1	114	114	6530					
09/01/2019	09/30/2019	1.02	1.26	1.26	4.56	4.56	4.56	1.03	1.03	1.03	11.58	14.76	14.80	0.20	0.20	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.9	23.3	23.3	6530				
10/01/2019	10/31/2019	5.22	5.22	5.23	19.93	19.93	19.93	8.60	8.60	8.61	26.30	26.30	26.31	0.30	0.30	0.30	1.45	1.45	1.45	0.17	0.17	0.17	0.17	0.17	62.0	62.0	62.0	6530				
11/01/2019	11/30/2019	12.00	12.00	12.01	6.49	6.49	6.50	6.73	6.73	6.73	24.05	24.05	24.07	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	3.61	3.61	6530				
12/01/2019	12/31/2019	1.62	1.95	1.95	10.27	12.38	12.39	10.05	12.11	12.12	17.57	21.17	21.18	0.56	0.56	0.56	0.00	0.00	0.00	0.12	0.17	0.17	0.17	0.17	40.2	48.5	48.5	1,342	1,400	1,421	6530	
01/01/2020	01/31/2020	11.11	11.11	11.08	4.16	4.16	4.16	8.82	8.82	8.82	44.09	44.09	44.16	0.19	0.19	0.19	0.00	0.00	0.00	0.38	0.38	0.38	0.38	0.38	72.6	72.6	72.6	1,410	1,408	1,490	6530	
02/01/2020	02/29/2020	24.81	24.81	24.83	38.43	38.43	38.54	14.18	14.18	14.21	140.07	140.07	140.50	1.18	1.18	1.17	11.58	11.58	11.57	0.95	0.95	1.0	1.0	1.0	232	232	232	1,411	1,399	1,222	6530	
03/01/2020	03/31/2020	13.01	13.01	13.02	41.27	41.27	41.29	0.00	0.00	0.00	157.57	157.57	157.65	0.00	0.00	0.00	10.02	10.02	10.02	0.00	0.00	0.00	0.00	0.00	222	222	222	1,411	1,399	1,222	6530	
04/01/2020	04/30/2020	4.56	4.56	4.56	7.59	7.59	7.60	3.34	3.34	3.34	30.37	30.37	30.38	0.45	0.45	0.45	7.60	7.60	7.61	0.00	0.00	0.00	0.00	0.00	53.9	53.9	53.9	1,099	1,157	1,158	6530	
05/01/2020	05/31/2020	4.43	4.43	4.41	4.19	4.19	4.16	3.65	3.65	3.65	20.74	20.74	20.78	0.00	0.00	0.00	3.69	3.69	3.70	0.00	0.00	0.00	0.00	0.00	36.7	36.7	36.7	1,038	1,096	1,097	6530	
06/01/2020	06/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6530	
07/01/2020	07/31/2020	5.20	5.20	5.20	10.39	10.39	10.39	41.14	41.14	41.16	62.33	62.33	62.36	0.31	0.31	0.31	5.20	5.20	5.20	1.00	1.00	1.00	1.00	1.00	126	126	126	986	1,044	1,045	6530	
08/01/2020	08/31/2020	2.45	2.88	2.88	2.04	2.40	2.40	18.86	19.03	19.08	14.27	16.82	16.82	0.28	0.28	0.28	5.44	6.41	6.41	0.49	0.49	0.49	0.49	0.49	43.8	48.3	48.3	961	978	979	6530	
09/01/2020	09/30/2020	0.30	0.42	0.43	1.86	2.84	2.83	4.70	4.80	4.70	4.14	5.62	5.78	0.00	0.00	0.00	1.01	1.41	1.42	0.00	0.00	0.00	0.00	0.00	12.0	15.1	17.3	954	970	973	6530	
10/01/2020	10/31/2020	0.30	0.31	0.31	0.37	0.38	0.38	2.97	3.64	3.64	2.98	3.07	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.6	6.8	6.8	899	915	918	6530	
11/01/2020	11/30/2020	5.17	5.17	5.17	10.34	10.34	10.41	6.26	6.26	6.24	12.28	12.28	12.37	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.39	0.03	0.03	0.03	35.4	35.4	34.2	581	597	599	6530	
12/01/2020	12/31/2020	1.33	1.33	1.34	2.66	2.66	2.67	10.26	10.26	10.22	6.66	6.66	6.68	0.00	0.00	0.00	0.44	0.44	0.44	0.02	0.02	0.02	0.02	0.02	21.4	21.4	21.4	862	870	872	6530	
01/01/2021	01/31/2021	0.00	0.00	0.00	0.47	0.47	0.47	2.87	2.87	2.86	2.79	2.79	2.79	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	6.4	6.4	6.4	796	804	806	6530	
02/01/2021	02/28/2021	1.67	4.44	4.44	0.24	0.24	0.24	4.87	4.87	4.87	6.18	18.99	24.08	1.67	1.68	1.68	0.55	0.52	0.52	0.00	0.00	0.00	0.00	0.00	17.9	48.8	46.9	583	620	621	6530	
03/01/2021	03/31/2021	1.99	3.19	3.19	2.49	3.98	3.98	10.94	17.51	17.52	20.51	32.84	32.85	2.37	3.80	3.80	1.66	2.66	2.66	0.49	0.61	0.61	0.61	0.61	40.4	64.6	64.6	402	462	464	6530	
04/01/2021	04/30/2021	0.69	1.59	1.52	1.41	1.41	1.59	6.22	6.22	6.22	2.46	7.07	7.07	0.94	2.70	2.70	3.35	3.77	3.78	0.15	0.17	0.17	0.17	0.17	13.6	23.2	23.2	361	432	433	6530	
05/01/2021	05/31/2021	25.48	25.48	25.51	17.82	17.82	17.83	23.53	23.53	23.54	56.02	56.02	56.05	1.52	1.52	1.52	141.08	141.08	141.16	1.11	1.11	1.11	1.11	1.11	267	267	267	591	662	663	6530	
06/01/2021	06/30/2021	3.28	3.28	3.28	12.27	12.27	12.28	17.10	17.10	17.11	24.55	24.55	24.55	0.49	0.49	0.49	20.48	20.48	20.49	0.05	0.05	0.05	0.05	0.05	78.2	78.2	78.2	668	738	740	6530	
07/01/2021	07/31/2021	10.05	10.05	10.06	4.19	4.19	4.19	12.89	12.89	12.90	48.83	48.83	48.86	0.33	0.33	0.33	19.24	19.24	19.25	0.00	0.00	0.00	0.00	0.00	86.5	86.5	86.6	629	699	701	6530	
08/01/2021	08/31/2021	1.93	1.93	1.93	3.22	3.22	3.22	13.44	13.44	13.44	25.73	25.73	25.73	0.38	0.38	0.38	4.29	4.29	4.31	0.25	0.25	0.25	0.25	0.25	49.2	49.2	49.2	634	700	703	6530	
09/01/2021	09/30/2021	4.53	4.89	4.97	11.33	12.21	12.18	8.26	9.67	9.69	47.59	51.28	51.17	0.54	0.54	0.54	12.10	13.04	13.02	0.17	0.19	0.19	0.19	0.19	84.5	91.9	91.8	707	777	778	6530	
10/01/2021	10/31/2021	2.82	3.33	3.33	7.04	8.32	8.32	3.44	4.07	4.07	1.87	6.83	6.84	0.09	0.11	0.11	1.04	1.23	1.23	0.00	0.00	0.00	0.00	0.00	20.3	24.0	24.0	721	794	795	6530	
11/01/2021	11/30/2021	0.43	0.43	0.48	0.98	0.98	0.98	2.77	2.77	2.66	3.69	3.69	3.69	0.03	0.03	0.03	0.03	0.15	0.14	0.14	0.01	0.01	0.01	0.01	0.01	8.1	8.1	8.0	693	767	769	6530
12/01/2021	12/31/2021																															

NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals

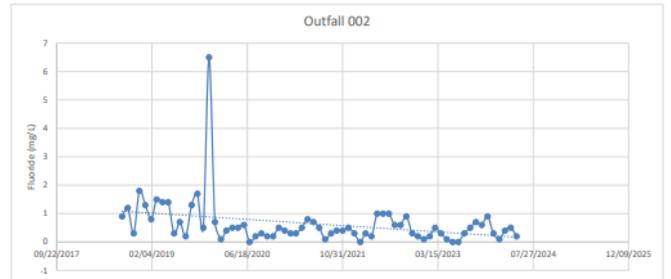
NPDES Permit No. PA0003255

Monitoring Start Date	Monitoring End Date	Outfall 001 Fe (lb/mo)			Outfall 002 Fe (lb/mo)			Outfall 003 Fe (lb/mo)			Outfall 004 Fe (lb/mo)			Outfall 006 Fe (lb/mo)			Outfall 008 Fe (lb/mo)			Outfall 009 Fe (lb/mo)			Monthly Total			12 Month Rolling Sum (lb/mo)			Limit (lb/yr)	
		eDMR	LSM Rev	DEP Calc	eDMR	Rev LSM	DEP Calc	eDMR	Rev LSM	DEP Calc																				
01/01/2019	01/31/2019	5.9	5.9	5.9	0.7	0.7	0.7	0.5	0.5	0.5	1.1	1.1	1.1	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	8.4	8.4	8.4	1,269	1,269	1,269	15,740	
02/01/2019	02/28/2019	285.4	285.4	285.3	447.5	447.4	447.2	234.2	234.2	233.9	294.6	294.6	295.2	0.0	0.0	0.0	7.6	7.6	7.6	0.0	0.0	0.0	36.8	36.8	36.2	2,587	2,587	2,587	15,740	
03/01/2019	03/31/2019	12.1	12.1	11.9	11.9	11.9	11.7	2.5	2.5	2.5	9.6	9.6	9.4	0.0	0.0	0.0	0.7	0.7	0.6	0.0	0.0	0.0	36.8	36.8	36.2	2,587	2,587	2,587	15,740	
04/01/2019	04/30/2019	0.0	0.0	0.0	112.1	111.4	134.6	93.8	94.6	121.0	44.8	44.6	60.3	0.2	0.2	0.5	7.2	7.0	14.0	0.0	0.0	0.0	258	258	320	2,587	2,587	2,587	15,740	
05/01/2019	05/31/2019	110.7	110.7	110.7	70.3	70.3	70.5	31.2	31.2	31.1	39.2	39.2	39.2	0.0	0.0	0.0	9.2	9.2	9.2	0.0	0.0	0.0	261	261	261	2,587	2,587	2,587	15,740	
06/01/2019	06/30/2019	21.8	21.8	21.8	40.7	40.7	40.7	60.6	60.6	60.6	30.0	30.0	30.0	9.4	9.4	9.4	8.9	8.9	8.9	0.0	0.0	0.0	172	172	172	2,587	2,587	2,587	15,740	
07/01/2019	07/31/2019	27.6	27.6	27.6	37.5	37.5	37.5	72.6	72.6	72.7	47.7	47.7	47.8	0.2	0.2	0.2	13.1	13.1	13.1	2.25	2.25	2.25	201	201	201	2,587	2,587	2,587	15,740	
08/01/2019	08/31/2019	34.8	37.6	37.6	24.7	40.9	40.9	48.7	80.6	80.6	20.9	34.6	34.6	0.0	0.0	0.0	3.9	6.4	6.4	0.24267	0.3	0.30	133	230	230	2,587	2,587	2,587	15,740	
09/01/2019	09/30/2019	4.4	5.4	5.4	16.2	20.0	20.0	3.1	3.9	3.9	9.6	11.8	11.8	0.3	0.4	0.4	0.0	0.0	0.0	0.0092	0.01	0.01	33.6	41.4	41.4	2,587	2,587	2,587	15,740	
10/01/2019	10/31/2019	23.7	23.7	23.7	82.6	82.6	82.6	31.7	31.7	31.7	22.4	22.4	22.4	0.4	0.4	0.4	9.7	9.7	9.7	0.1998	0.20	0.20	171	171	171	2,587	2,587	2,587	15,740	
11/01/2019	11/30/2019	68.2	68.2	68.2	20.0	20.0	20.0	9.9	9.9	9.9	26.5	26.5	26.5	0.2	0.2	0.2	0.0	0.0	0.0	6.3133	6.31	6.32	131	131	131	2,587	2,587	2,587	15,740	
12/01/2019	12/31/2019	5.1	6.2	6.2	24.2	29.1	29.1	14.3	17.2	17.2	10.9	13.2	13.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1193	0.2	0.17	54.7	65.9	66.6	2,729	2,835	2,897	15,740	
01/01/2020	01/31/2020	30.9	30.9	30.8	32.3	32.3	32.3	19.2	19.2	19.2	27.4	27.4	27.5	0.2	0.2	0.2	0.0	0.0	0.0	0.3	0.30	0.30	110	110	110	2,831	2,937	2,999	15,740	
02/01/2020	02/29/2020	125.0	125.0	125.1	113.2	113.2	113.5	39.8	39.8	39.9	89.1	89.1	89.4	0.2	0.1	0.1	5.1	5.1	5.1	0.03	0.03	0.0	372	372	373	1,934	2,040	2,103	15,740	
03/01/2020	03/31/2020	60.0	60.0	60.0	135.1	135.1	135.1	0.0	0.0	0.0	115.2	115.2	115.2	0.0	0.0	0.0	7.3	7.3	7.3	0.0	0.0	0.0	318	318	318	2,215	2,321	2,385	15,740	
04/01/2020	04/30/2020	22.8	22.8	22.8	19.6	19.5	19.6	8.1	8.1	8.1	26.3	26.3	26.3	0.2	0.2	0.2	5.6	5.6	5.6	0.0	0.0	0.0	82.5	82.5	82.5	2,039	2,145	2,147	15,740	
05/01/2020	05/31/2020	18.3	18.3	18.2	14.3	14.3	14.3	7.9	7.9	7.9	9.6	9.6	9.6	0.0	0.0	0.0	2.8	2.8	2.8	0.0	0.0	0.0	52.8	52.8	52.8	1,831	1,937	1,939	15,740	
06/01/2020	06/30/2020	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1,661	1,767	1,769	15,740		
07/01/2020	07/31/2020	20.7	20.7	20.7	41.7	41.7	41.7	154.3	154.3	154.4	69.3	69.3	69.4	0.2	0.2	0.2	16.0	15.9	16.0	2.4	2.40	2.40	304	304	305	1,705	1,871	1,872	15,740	
08/01/2020	08/31/2020	7.4	8.7	8.7	5.9	7.0	7.0	87.6	88.4	88.6	12.5	14.8	14.8	0.5	0.5	0.5	5.0	5.0	5.0	1.13	1.14	1.08	120	126	127	1,752	1,777	1,778	15,740	
09/01/2020	09/30/2020	1.5	2.2	2.2	9.2	12.3	12.8	16.0	18.3	18.6	3.7	5.2	5.2	0.0	0.0	0.0	3.9	5.4	5.9	0.0	0.0	0.0	34.3	44.0	54.2	776	869	886	15,740	
10/01/2020	10/31/2020	0.7	0.5	0.8	0.8	0.8	0.8	8.1	8.3	8.5	0.6	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	10.6	10.7	1,592	1,619	1,631	15,740		
11/01/2020	11/30/2020	31.7	31.7	31.7	33.3	33.3	33.3	26.7	26.7	26.7	14.3	14.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	2.28	2.28	2.30	108	108	109	1,569	1,597	1,609	15,740	
12/01/2020	12/31/2020	4.2	4.2	4.2	7.0	7.0	7.0	15.0	15.0	14.9	5.6	5.6	5.6	0.0	0.0	0.0	0.4	0.4	0.4	0.01	0.01	0.01	32.2	32.2	32.2	1,547	1,563	1,575	15,740	
01/01/2021	01/31/2021	0.0	0.0	0.0	1.1	1.1	1.1	3.6	3.6	3.6	1.9	1.9	1.9	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	7.0	7.0	7.0	1,444	1,460	1,472	15,740	
02/01/2021	02/28/2021	4.5	12.0	12.0	3.1	8.3	8.3	1.8	4.9	4.9	7.0	18.7	18.7	0.0	0.0	0.0	1.8	2.0	2.0	0.0	0.0	0.0	18.2	45.8	45.8	1,089	1,133	1,144	15,740	
03/01/2021	03/31/2021	6.3	10.1	10.1	6.7	10.6	10.7	27.6	44.1	44.2	12.9	20.7	20.7	3.7	5.9	5.9	2.7	4.3	4.3	0.37	0.46	0.46	60.2	96.2	96.3	832	912	923	15,740	
04/01/2021	04/30/2021	2.9	7.8	7.9	1.2	3.2	3.2	16.6	18.7	18.7	1.2	3.5	3.5	0.7	2.0	2.0	3.6	4.0	4.0	0.12	0.13	0.14	26.2	39.3	39.4	776	869	886	15,740	
05/01/2021	05/31/2021	162.1	162.1	162.3	63.5	63.6	63.6	90.4	90.4	90.5	102.2	102.2	102.3	2.2	2.2	2.2	107.6	107.6	107.7	2.53	2.53	2.53	531	531	531	1,253	1,347	1,350	15,740	
06/01/2021	06/30/2021	19.9	19.9	19.9	48.4	48.4	48.4	65.6	65.6	65.6	37.1	37.1	37.1	0.7	0.7	0.7	17.3	17.3	17.3	0.078	0.08	0.08	189	189	189	1,441	1,534	1,546	15,740	
07/01/2021	07/31/2021	29.3	29.3	29.3	14.6	14.6	14.6	26.2	26.2	26.2	21.5	21.5	21.5	0.1	0.1	0.1	7.9	7.9	7.9	0.0	0.0	0.0	99.6	99.6	99.6	1,236	1,329	1,341	15,740	
08/01/2021	08/31/2021	9.1	9.1	16.4	8.4	8.4	8.4	37.2	37.1	37.2	15.0	15.0	14.9	0.4	0.4	0.4	3.3	3.3	3.3	0.27	0.27	0.27	73.6	73.6	80.9	1,190	1,276	1,295	15,740	
09/01/2021	09/30/2021	18.9	20.3	20.7	33.5	36.1	36.1	41.9	49.1	49.2	43.1	46.4	46.3	0.3	0.3	0.3	10.9	11.7	11.7	0.26	0.28	0.26	149	164	165	1,304	1,397	1,405	15,740	
10/01/2021	10/31/2021	16.1	19.1	19.1	23.9	28.2	28.2	11.4	13.5	13.5	4.5	5.3	5.3	0.1	0.1	0.1	6.4	7.5	7.5	0.01	0.01	0.01	62.3	73.6	73.7	1,356	1,460	1,468	15,740	
11/01/2021	11/30/2021	9.8	9.8	9.9	8.1	8.1	8.1	6.1	6.1	5.8	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.5	0.5	0.003	0.003	0.003	13.1	13.1	13.0	1,241	1,361	1,371	15,740	
12/01/2021	12/31/2021	1.5	1.7	1.7	2.4	2.8	2.8	5.7	6.4	6.5	8.1	9.0	9.0	1.2	1.4	1.4	5.1	5.7	5.7	0.017	0.019	0.019	24.0	27.1	27.1	1,253	1,359	1,368	15,740	
01/01/2022	01/31/2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,246	1,352	1,361	15,740
02/01/2022	02/28/2022	50.3	69.1	69.4	52.2	71.7	71.8	86.1	98.2	178.1	203.0	203.1	0.5	0.6	0.6	5.3	6.1	6.1	0.04	0.04	0.04	373								

Attachment D – Fluoride Evaluation

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SDC
08/01/2018	08/31/2018	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.9	Monitor and Report	Daily Maximum
09/01/2018	09/30/2018	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.2	Monitor and Report	Daily Maximum
10/01/2018	10/31/2018	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
11/01/2018	11/30/2018	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.8	Monitor and Report	Daily Maximum
12/01/2018	12/31/2018	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.3	Monitor and Report	Daily Maximum
01/01/2019	01/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.8	Monitor and Report	Daily Maximum
02/01/2019	02/28/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.5	Monitor and Report	Daily Maximum
03/01/2019	03/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.4	Monitor and Report	Daily Maximum
04/01/2019	04/30/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.4	Monitor and Report	Daily Maximum
05/01/2019	05/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
06/01/2019	06/30/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.7	Monitor and Report	Daily Maximum
07/01/2019	07/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
08/01/2019	08/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.3	Monitor and Report	Daily Maximum
09/01/2019	09/30/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1.7	Monitor and Report	Daily Maximum
10/01/2019	10/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
11/01/2019	11/30/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	6.5	Monitor and Report	Daily Maximum
12/01/2019	12/31/2019	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.7	Monitor and Report	Daily Maximum
01/01/2020	01/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum
02/01/2020	02/29/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum
03/01/2020	03/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
04/01/2020	04/30/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
05/01/2020	05/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum
06/01/2020	06/30/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	E	Monitor and Report	Daily Maximum
07/01/2020	07/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
08/01/2020	08/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
09/01/2020	09/30/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
6.50	0.67	0.5
Benchmark: 1.8 mg/L		



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
6.5	1.42	1.05	0.6	0.35	0.4

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.8	0.43	0.4	1	0.56	0.6

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.9	0.44	0.4	0.5	0.30	0.3

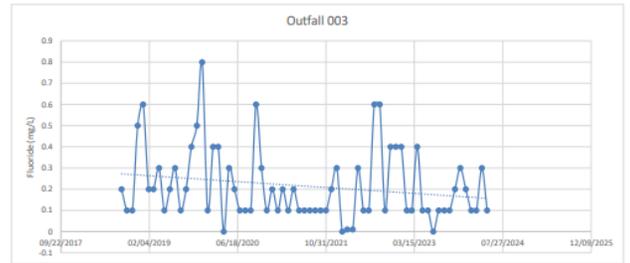
10/01/2020	10/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
11/01/2020	11/30/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
12/01/2020	12/31/2020	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum
01/01/2021	01/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
02/01/2021	02/28/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
03/01/2021	03/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
04/01/2021	04/30/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.8	Monitor and Report	Daily Maximum
05/01/2021	05/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.7	Monitor and Report	Daily Maximum
06/01/2021	06/30/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
07/01/2021	07/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum
08/01/2021	08/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
09/01/2021	09/30/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum
10/01/2021	10/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum
11/01/2021	11/30/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
12/01/2021	12/31/2021	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
01/01/2022	01/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	FF	Monitor and Report	Daily Maximum
02/01/2022	02/28/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
03/01/2022	03/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
04/01/2022	04/30/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1	Monitor and Report	Daily Maximum
05/01/2022	05/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1	Monitor and Report	Daily Maximum
06/01/2022	06/30/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	1	Monitor and Report	Daily Maximum
07/01/2022	07/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum
08/01/2022	08/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum
09/01/2022	09/30/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.9	Monitor and Report	Daily Maximum
10/01/2022	10/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
11/01/2022	11/30/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
12/01/2022	12/31/2022	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum
01/01/2023	01/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum
02/01/2023	02/28/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
03/01/2023	03/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
04/01/2023	04/30/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum
05/01/2023	05/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	E	Monitor and Report	Daily Maximum
06/01/2023	06/30/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	E	Monitor and Report	Daily Maximum
07/01/2023	07/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
08/01/2023	08/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
09/01/2023	09/30/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.7	Monitor and Report	Daily Maximum
10/01/2023	10/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum
11/01/2023	11/30/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.9	Monitor and Report	Daily Maximum
12/01/2023	12/31/2023	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum
01/01/2024	01/31/2024	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum
02/01/2024	02/29/2024	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum
03/01/2024	03/31/2024	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum
04/01/2024	04/30/2024	Monthly	002	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum

**NPDES Permit Fact Sheet
Carpenter Latrobe Specialty Metals**

NPDES Permit No. PA0003255

MONITORING START DATE	MONITORING END DATE	REPORT FREQUENCY	OUTFALL	MONITORING LOCATION	PARAMETER	CONC UNITS	CONC 3 VALUE	CONC 3 LIMIT	CONC 3 SEC	SAMPLE FREQUENCY	SAMPLE TYPE
08/01/2018	08/31/2018	Monthly	003	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2018	09/30/2018	Monthly	003	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2018	10/31/2018	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2018	11/30/2018	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2018	12/31/2018	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2019	01/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2019	02/28/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2019	03/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2019	04/30/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2019	05/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2019	06/30/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2019	07/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2019	08/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2019	09/30/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2019	10/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.5	Monitor and Report	Daily Maximum	1/month	Grab
11/01/2019	11/30/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.8	Monitor and Report	Daily Maximum	1/month	Grab
12/01/2019	12/31/2019	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
01/01/2020	01/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum	1/month	Grab
02/01/2020	02/29/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.4	Monitor and Report	Daily Maximum	1/month	Grab
03/01/2020	03/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	E	Monitor and Report	Daily Maximum	1/month	Grab
04/01/2020	04/30/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab
05/01/2020	05/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.2	Monitor and Report	Daily Maximum	1/month	Grab
06/01/2020	06/30/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum	1/month	Grab
07/01/2020	07/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.1	Monitor and Report	Daily Maximum	1/month	Grab
08/01/2020	08/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	< 0.1	Monitor and Report	Daily Maximum	1/month	Grab
09/01/2020	09/30/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.6	Monitor and Report	Daily Maximum	1/month	Grab
10/01/2020	10/31/2020	Monthly	003	Final Effluent	Fluoride, Total	mg/L	0.3	Monitor and Report	Daily Maximum	1/month	Grab

MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.6	0.22	0.2



2019			2020		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.6	0.28	0.2	0.6	0.25	0.2

2021			2022		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.3	0.14	0.1	0.6	0.27	0.3

2023			2024		
MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)	MAX (mg/L)	AVERAGE (mg/L)	MEDIAN (mg/L)
0.4	0.16	0.1	0.3	0.15	0.1

Attachment E – Outfalls 006 & 009 Comparison

Aluminum August 2018-April 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	3.2	0.43	0.2
009	22.2	1.05	0.3

Iron August 2018-April 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	2.71	0.46	0.16
009	38.8	1.50	0.14

Manganese August 2018-April 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	0.95	0.06	0.015
009	2.24	0.11	0.01

Aluminum 2022			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	1.3	0.37	0.2
009	1.4	0.53	0.35

Iron 2022			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	1.47	0.45	0.29
009	1.1	0.20	0.075

Manganese 2022			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	0.08	0.04	0.02
009	0.05	0.02	0.01

Aluminum 2023			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	1.7	0.26	0.1
009	0.5	0.17	0.1

Iron 2023			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	2.44	0.31	0.07
009	0.5	0.15	0.07

Manganese 2023			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	0.15	0.02	0.01
009	0.07	0.02	0.01

Aluminum 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	3.2	1.50	1.35
009	1.3	0.40	0.15

Iron 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	2.71	1.01	0.565
009	1.12	0.35	0.1

Manganese 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	0.18	0.10	0.1
009	0.11	0.04	0.01

pH August 2018-April 2024			
Outfall	Max (mg/L)	Min (mg/L)	Average (mg/L)
006	12.77	6.23	7.56
009	12	6.26	7.19

TSS August 2018-April 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	377	32.92	10
009	1710	68.50	14

pH 2022			
Outfall	Max (mg/L)	Min (mg/L)	Average (mg/L)
006	8.13	6.23	7.03
009	8.86	6.26	7.17

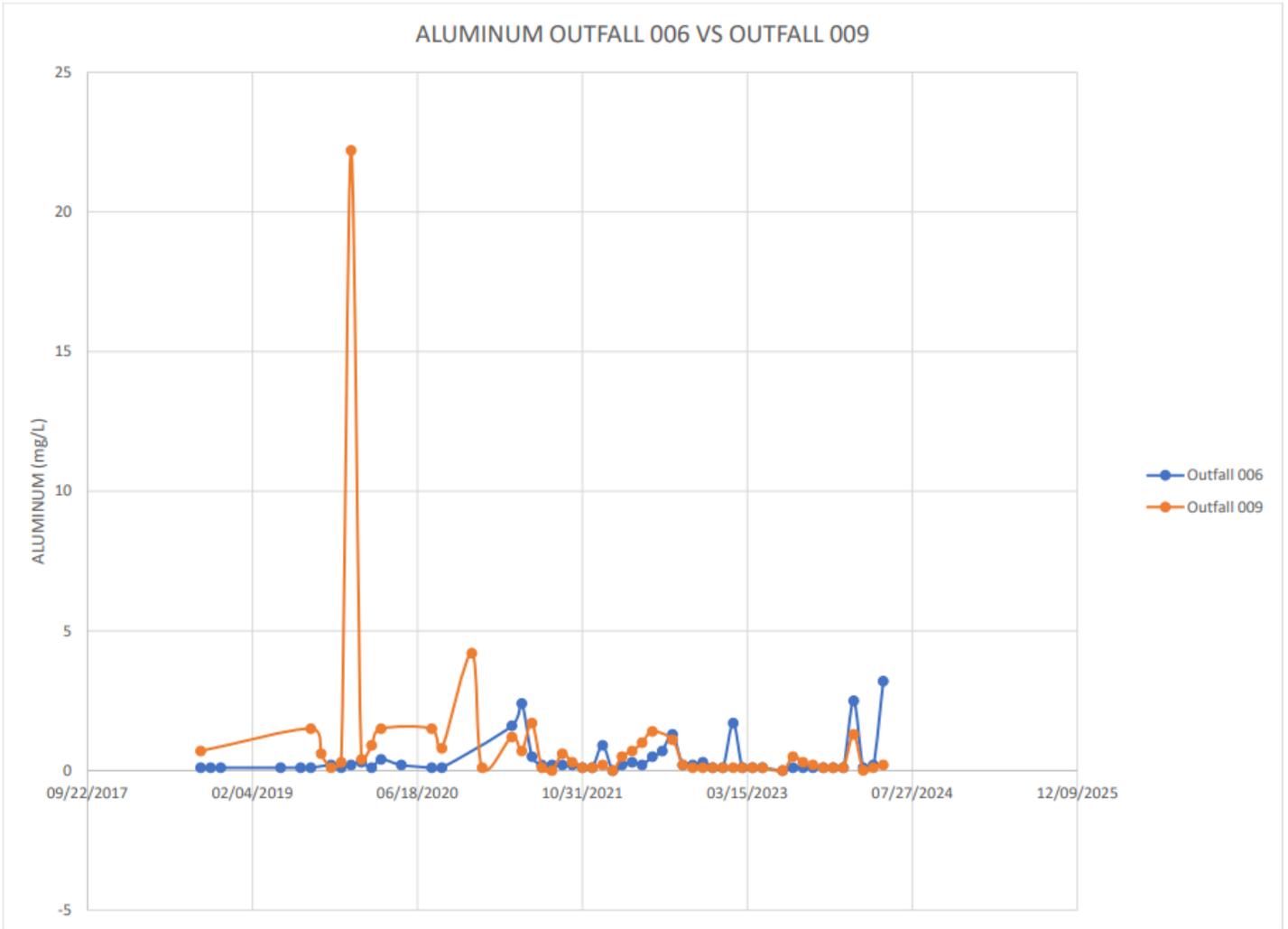
TSS 2022			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	101	32.73	16
009	38	19.60	16

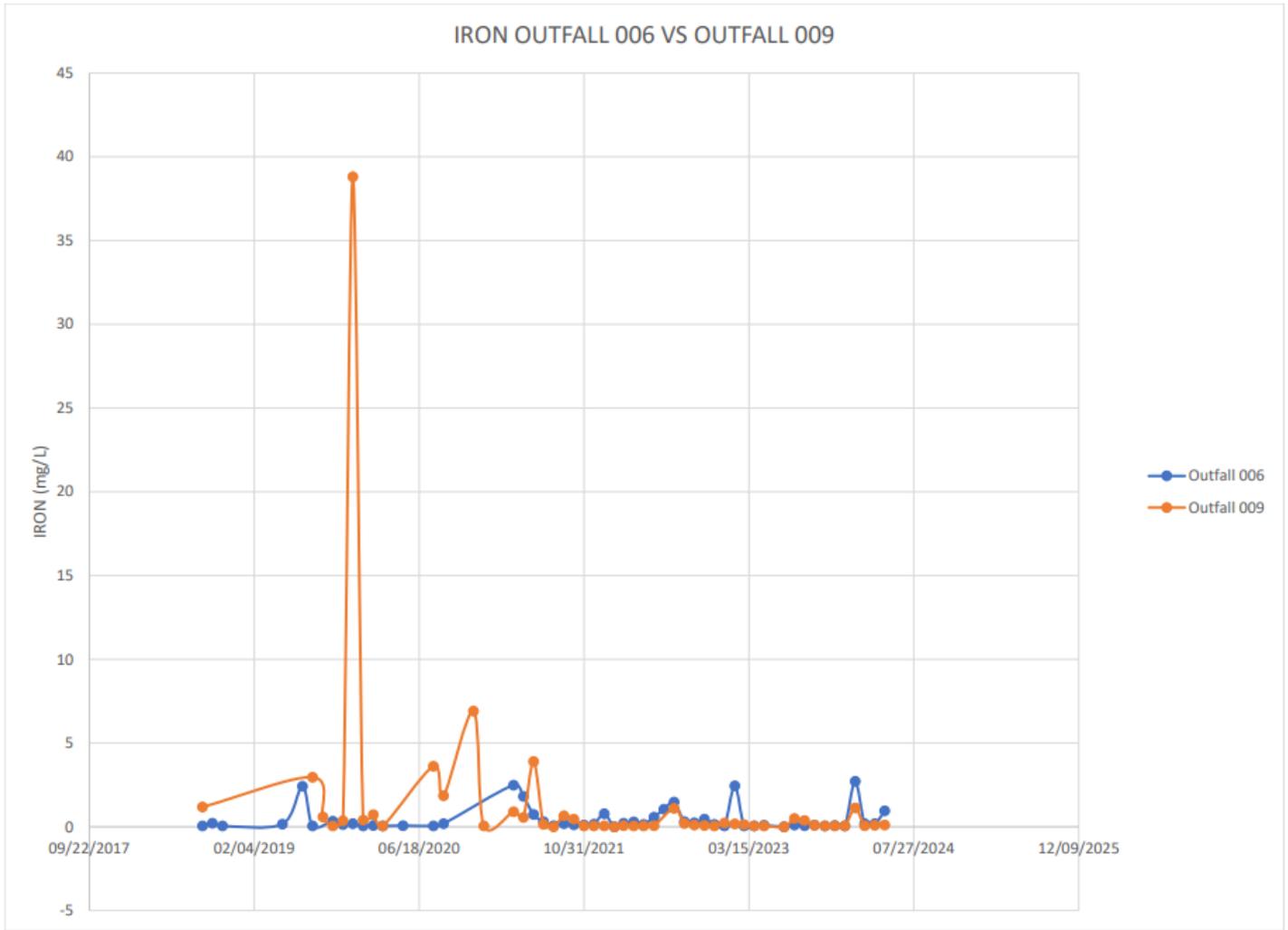
pH 2023			
Outfall	Max (mg/L)	Min (mg/L)	Average (mg/L)
006	7.46	6.65	7.00
009	7.14	6.41	6.93

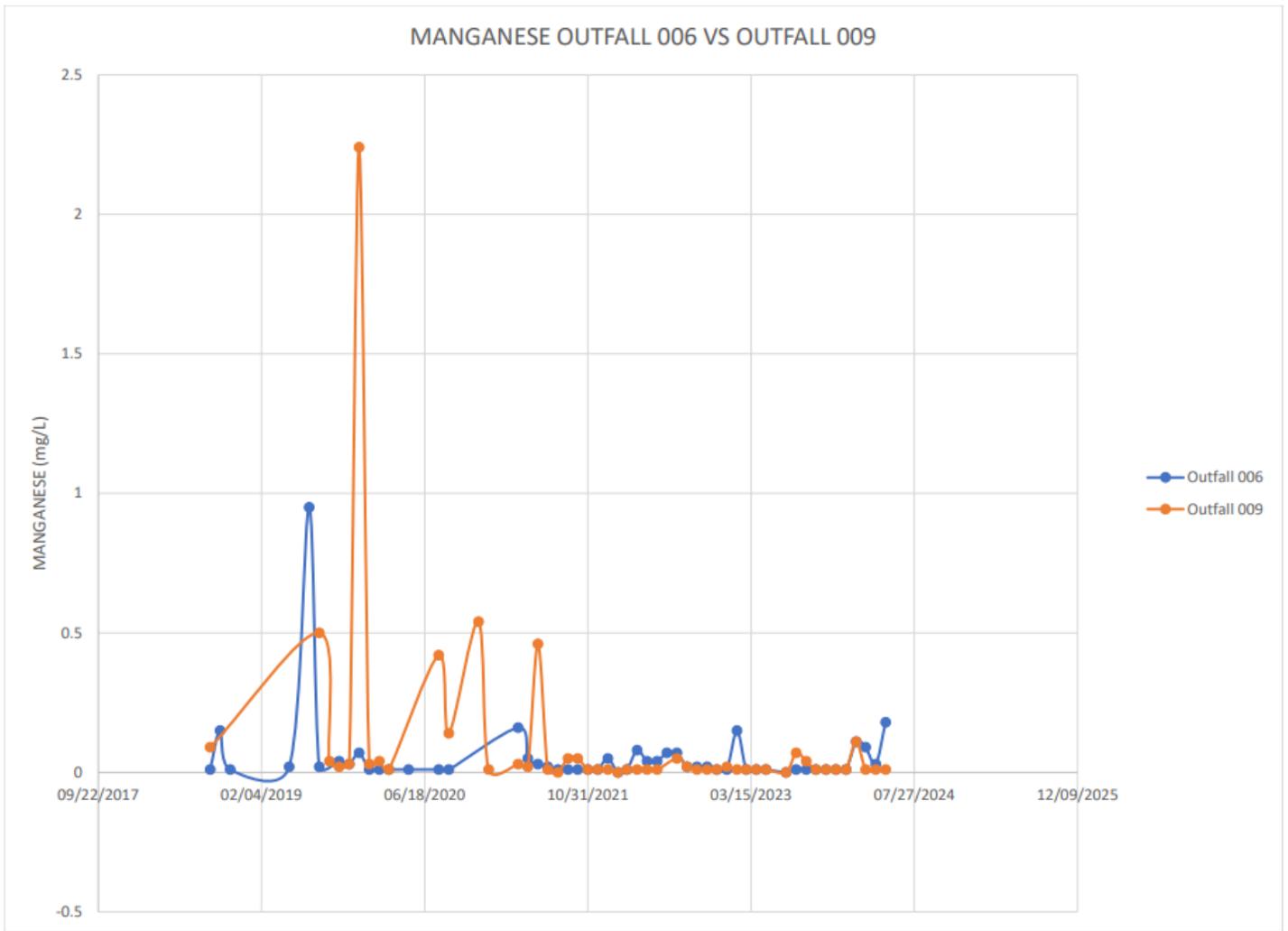
TSS 2023			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	94	13.00	4
009	28	7.60	5

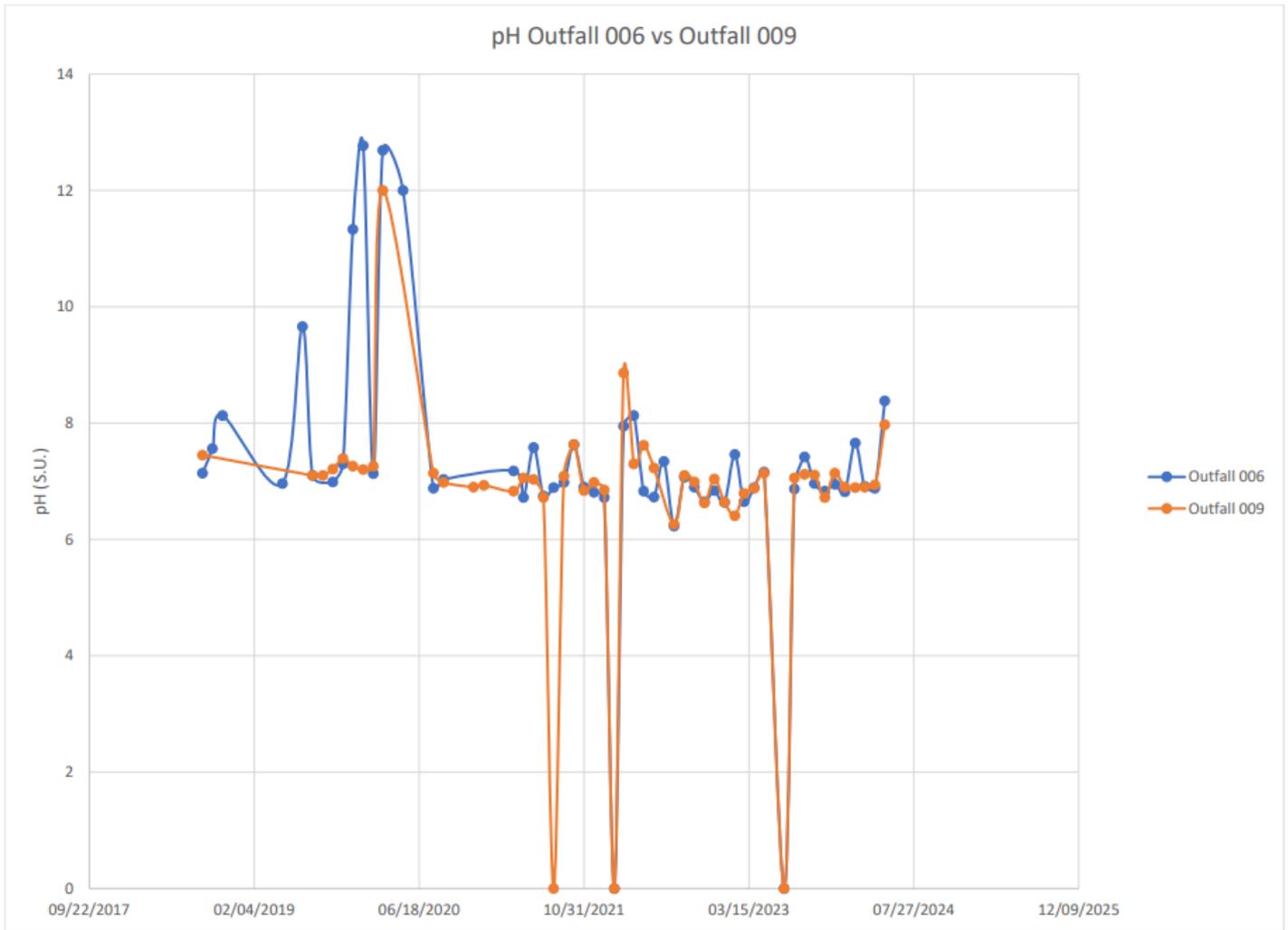
pH 2024			
Outfall	Max (mg/L)	Min (mg/L)	Average (mg/L)
006	8.38	6.88	7.46
009	7.97	6.89	7.18

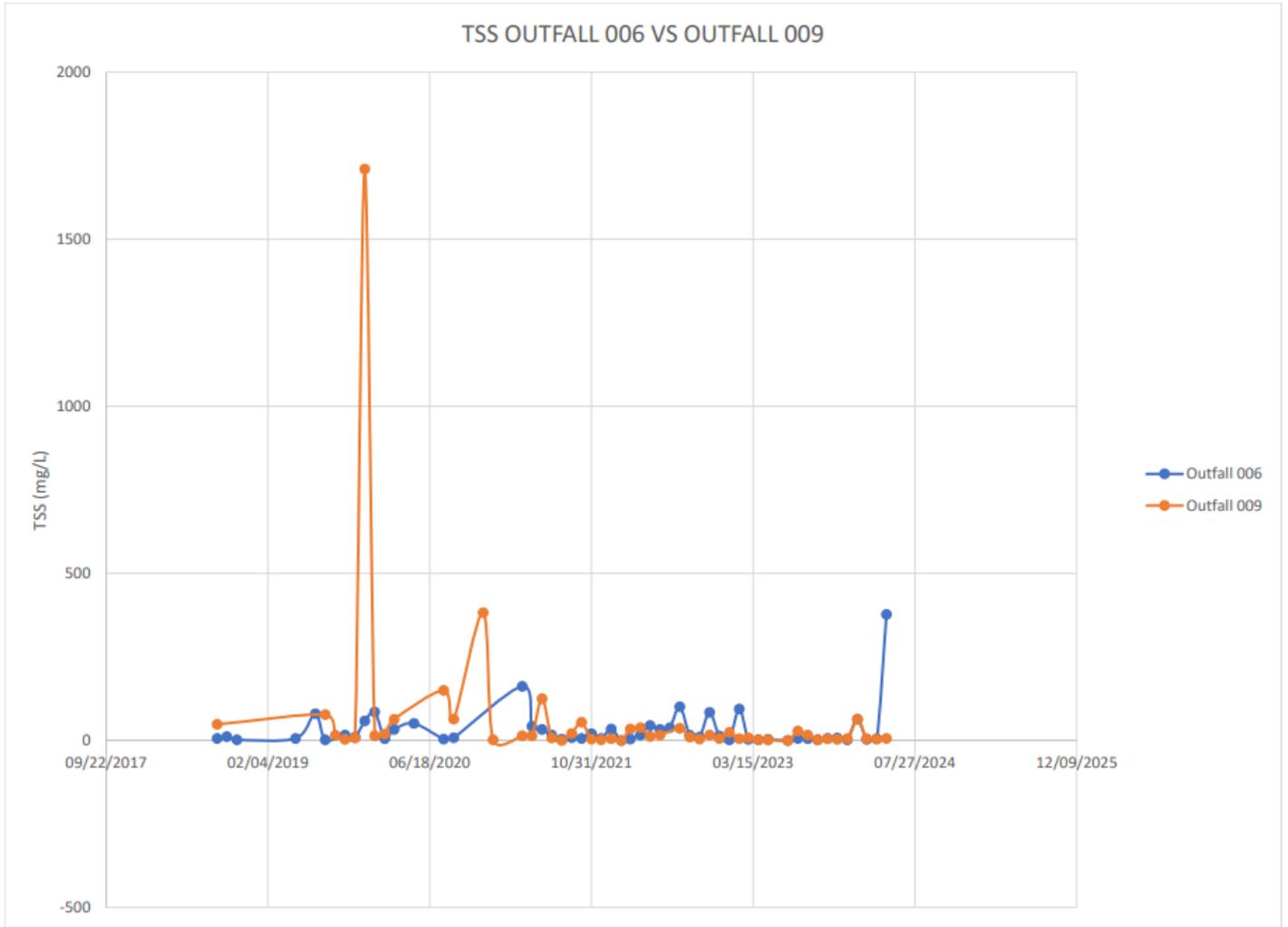
TSS 2024			
Outfall	Max (mg/L)	Average (mg/L)	Median (mg/L)
006	63	23.67	5
009	64	24.33	5











Attachment F – TSS Evaluation

TSS								
Monitoring Start Date	Monitoring End Date	Outfall 001 (mg/L)	Outfall 002 (mg/L)	Outfall 003 (mg/L)	Outfall 004 (mg/L)	Outfall 006 (mg/L)	Outfall 008 (mg/L)	Outfall 009 (mg/L)
01/01/2019	01/31/2019	180	19	8	17		4	
02/01/2019	02/28/2019	480	555	230	685		12	
03/01/2019	03/31/2019	252	188	32	278		6	
04/01/2019	04/30/2019	E	400	384	204	6	5	
05/01/2019	05/31/2019	32	90	69	104		20	
06/01/2019	06/30/2019	12	62	136	96	80	14	
07/01/2019	07/31/2019	72	50	123	138	2	33	77
08/01/2019	08/31/2019	132	82	206	184		9	15
09/01/2019	09/30/2019	48	162	10	124	16		3
10/01/2019	10/31/2019	60	200	82	102	10	6	7
11/01/2019	11/30/2019	604	132	88	98	58		1710
12/01/2019	12/31/2019	23	87	40	86	85		14
01/01/2020	01/31/2020	101	55	84	152	5		19
02/01/2020	02/29/2020	216	212	76	396	33	10	63
03/01/2020	03/31/2020	168	232	E	421		12	
04/01/2020	04/30/2020	109	48	27	96	51	15	
05/01/2020	05/31/2020	43	31	24	74		6	
06/01/2020	06/30/2020	E	E	34	32			
07/01/2020	07/31/2020	36	55	320	202	4	6	150
08/01/2020	08/31/2020	9	12	315	35	8	13	64
09/01/2020	09/30/2020	12	62	181	46		7	
10/01/2020	10/31/2020	5	6	84	4			
11/01/2020	11/30/2020	82	111	115	83			382
12/01/2020	12/31/2020	23	44	60	54		2	2
01/01/2021	01/31/2021	E	8	68	58		3	
02/01/2021	02/28/2021	75	26	23	206		4	
03/01/2021	03/31/2021	21	20	152	98	162	9	14
04/01/2021	04/30/2021	31	12	85	40	42	14	14
05/01/2021	05/31/2021	420	130	340	310	33	263	125
06/01/2021	06/30/2021	45	52	114	90	16	44	7
07/01/2021	07/31/2021	123	39	131	38	4	32	E
08/01/2021	08/31/2021	28	21	164	68	8	10	21
09/01/2021	09/30/2021	33	49	81	163	6	22	54
10/01/2021	10/31/2021	80	148	69	48	20	9	4
11/01/2021	11/30/2021	26	38	86	93	6	6	2
12/01/2021	12/31/2021	7	10	19	57	34	34	5
01/01/2022	01/31/2022	FF						
02/01/2022	02/28/2022	122	151	155	1030	4	6	34
03/01/2022	03/31/2022	4	7	25	125	16	7	38
04/01/2022	04/30/2022	22	54	46	58	44	6	12
05/01/2022	05/31/2022	74	170	167	118	33	45	16
06/01/2022	06/30/2022	6	25	48	48	38	5	
07/01/2022	07/31/2022	86	51	24	120	101	162	36
08/01/2022	08/31/2022	36	52	105	140	15	10	10
09/01/2022	09/30/2022	37	78	65	310	10	8	4
10/01/2022	10/31/2022	50	98	170	188	84	8	16
11/01/2022	11/30/2022	27	19	76	78	13	13	6
12/01/2022	12/31/2022	64	41	92	6	2	15	24
01/01/2023	01/31/2023	198	90	80	193	94	9	5
02/01/2023	02/28/2023	52	140	54	132	3	2	8
03/01/2023	03/31/2023	114	20	179	30	2	4	2
04/01/2023	04/30/2023	28	9	10	16	3	4	2
05/01/2023	05/31/2023	E	E	13	115		6	
06/01/2023	06/30/2023	E	E	E	E	E	E	E
07/01/2023	07/31/2023	40	154	94	130	6	114	28
08/01/2023	08/31/2023	2	11	38	33	5	32	16
09/01/2023	09/30/2023	16	18	46	75	2	4	2
10/01/2023	10/31/2023	22	22	20	48	6	14	5
11/01/2023	11/30/2023	32	30	36	52	7	5	3
12/01/2023	12/31/2023	92	56	277	110	2	2	5
01/01/2024	01/31/2024	92	73	32	266	63	9	64
02/01/2024	02/29/2024	36	45	82	174	3	4	5
03/01/2024	03/31/2024	10	18	16	35	5	4	4
04/01/2024	04/30/2024	10	6	54	114	377	16	6