INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno Pigott
Commissioner

September 17, 2020

VIA ELECTRONIC MAIL

Mr. John J Battisti, Chief Operating Officer
ArcelorMittal Plate, LLC – Gary Plate
250 West U.S. Highway 12
Burns Harbor, IN 46304

Dear Mr. Battisti:

Re: NPDES Permit No. IN0062197
ArcelorMittal Plate LLC – Gary Plate
Burns Harbor, IN – Lake County

Your application for a National Pollutant Discharge Elimination System (NPDES) permit for authorization to discharge into the waters of the State of Indiana has been processed in accordance with Section 402 and 405 of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251, et seq.), and IC 13-15, IDEM's permitting authority. All discharges from this facility shall be consistent with the terms and conditions of this permit.

One condition of your permit requires periodic reporting of several effluent parameters. You are required to submit both federal discharge monitoring reports (DMRs) and state Monthly Monitoring Reports (MMRs) on a routine basis. The MMR form can be found on IDEM's web site at http://www.in.gov/idem/cleanwater/2396.htm.

Once you are on this page, select the "IDEM Forms" page and locate the "Monthly Monitoring Report (MMR) for Industrial Discharge Permits-30530" under the Wastewater Facilities heading. We recommend selecting the "XLS" version because it will complete all of the calculations when you enter the data.

IDEM no longer accepts paper DMR or MMR. All NPDES permit holders are required to submit their monitoring data to IDEM using NetDMR. Please contact Rose McDaniel at (317) 233-2653 or Helen Demmings at (317) 232-8815 for more information on NetDMR. Information is also available on our website at http://IN.gov/idem/cleanwater/2422.htm.

Another condition, which needs to be clearly understood, concerns violation of the effluent limitations in the permit. Exceeding the limitations constitutes a violation of the permit and may subject the permittee to criminal or civil penalties. (See Part II A.2.) It is therefore urged that your office and treatment operator understand this part of the permit.

The draft NPDES permit for ArcelorMittal Plate LLC - Gary Plate was made available for public comment from July 30, 2020 through August 31, 2020 as part of Public Notice No. PN# 20200730 – IN0062197 - D on IDEM's website at https://www.in.gov/idem/6408.htm. A response to the comments contained in the letter dated 8/26/2020, from Morgan Swanson, Environmental Engineer, pertaining to the draft NPDES permit is contained in the Post Public Notice Addendum. The Post Public Notice Addendum is located at the end of the Briefing Memo.

It should also be noted that any appeal must be filed under procedures outlined in IC 13-15-6, IC 4-21.5, and the enclosed Public Notice. The appeal must be initiated by filing a petition for administrative review with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the emailing of an electronic copy of this letter or within eighteen (18) days of the mailing of this letter by filing at the following addresses:

Director
Office of Environmental Adjudication
Indiana Government Center North
Room N103
100 North Senate Avenue
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
Room 1301
100 North Senate Avenue
Indianapolis, Indiana 46204

If you have any questions concerning the permit, please contact Megan Miller at 317/233-1854 or mmiller@idem.in.gov. More information on the appeal review process is available at the website for the Office of Environmental Adjudication at http://www.in.gov/oea.

Sincerely,

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

Enclosures
cc: Lake County Health Department
Morgan Swanson. Environmental Engineer
Nick Ream, IDEM Inspector

STATE OF INDIANA

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "Clean Water Act" or "CWA"), and IDEM's authority under IC13-15,

ARCELORMITTAL PLATE LLC - GARY PLATE

is authorized to discharge from a carbon steel plate and heat treating facility that is located at One North Broadway Avenue, Gary, Indiana to receiving waters identified as Lake Michigan in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I and II hereof. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

Effective Date: November 1, 2020

Expiration Date: October 31, 2025

In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Indiana Department of Environmental Management no later than 180 days prior to the date of expiration.

Issued on _September 17, 2020_ for the Indiana Department of Environmental Management.

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from the outfall listed below in accordance with the terms and conditions of this permit. The permittee is authorized to discharge from Outfall 036, located at Latitude 41° 37' 32.2", Longitude -87° 20' 9.6". The discharge is limited to noncontact cooling water, steam condensate, backwash and some storm water. Samples taken in compliance with the monitoring requirements below shall be taken at a point representative of the discharge but prior to entry into Lake Michigan. Such discharge shall be limited and monitored by the permittee as specified below:

DISCHARGE LIMITATIONS [1][2][3]

Outfall 036

Table 1

	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
	Monthly	Daily		Monthly	Daily		Measurement	Sample
Parameter	Average	Maximum	Units	Average	Maximum	Units	Frequency	Type
Flow	Report	Report	MGD	-	-	-	Daily	Continuous
Temperature[9]	-----	-----	-----	Report	Report	°F	Daily[10]	Continuous
Oil & Grease[11]	-----	-----	-----	-----	Report	mg/l	3 X Weekly	Grab
TRC [5][6][8]	0.40	0.90[7]	lbs/day	0.008	0.018	mg/l	5 X Weekly	Grab

Table 2

	Quality or Concentration			Monitoring Requirements	
	Daily	Daily		Measurement	Sample
Parameter	Minimum	Maximum	Units	Frequency	Type
pH [4]	6.0	9.0	s.u.	3 x Weekly	Grab

[1] See Part I.B. of the permit for the Narrative Water Quality Standards.

[2] There shall be no discharge of process wastewaters through Outfall 036.

[3] In the event that a new water treatment additive is to be used that will contribute to this Outfall, or changes are to be made in the use of water treatment additives, including dosage, the permittee must apply for and receive approval from IDEM prior to such discharge. Discharges of any such additives must meet Indiana water quality standards. The permittee must apply for permission to use water treatment additives by completing and submitting State Form 50000 (Application for Approval to Use Water Treatment Additives) currently available at: http://www.in.gov/idem/5157.htm

[4] If the permittee collects more than one grab sample on a given day for pH, the values shall not be averaged for reporting daily maximums or daily minimums. The permittee must report the individual minimum and the individual maximum pH value of any sample during the month on the Monthly Monitoring Report form.

[5] The monthly average water quality based effluent limit (WQBEL) for TRC is less than the limit of quantitation (LOQ) as specified below in footnote [8]. Compliance with the calculated monthly average limit will be demonstrated if the monthly average effluent level is less than or equal to the monthly average WQBEL. When calculating the monthly average effluent level, daily effluent values that are less than the LOQ, used to determine the monthly average effluent levels less than the LOQ, may be assigned a value of zero (0), unless, after considering the number of monitoring results that are greater than the limit of detection (LOD), and applying appropriate statistical techniques, a value other than zero (0) is warranted.

[6] The daily maximum WQBEL for TRC is less than LOD and LOQ specified below in footnote [8].Compliance with the daily maximum limit will be demonstrated if the observed effluent concentrations are less than the LOQ.

[7] Compliance with the daily maximum mass value will be demonstrated if the calculated mass value is less than 3.01 lbs/day.

[8] The following EPA approved test methods and associated LODs and LOQs are to be used in the analysis of the effluent samples. Alternative methods may be used if first approved by IDEM and EPA, if applicable.

Parameter	Test Method	LOD	LOQ
Chlorine	4500-Cl-D-2000,E-2000 or 4500-Cl-G-2000	0.02 mg/l	0.06 mg/l

Case-Specific LOD/LOQ

The permittee may determine and use a case-specific LOD or LOQ using the analytical method specified above, or any other analytical method which is approved by the Commissioner, and EPA if applicable, prior to use. The LOD and LOQ shall be determined as established in 327 IAC 5-2-11.6(h)(2)(B).

[9] The following temperature criteria shall apply to Lake Michigan:

(a) In all receiving water, the points of measurement normally shall be in the first meter below the surface at such depths necessary to avoid thin layer surface warming due to extreme ambient air temperatures, but, where required to determine the true distribution of heated wastes and natural variations in water temperatures, measurements shall be at a greater depth and at several depths as a thermal profile.

(b) There shall be no abnormal temperature changes so as to be injurious to fish, wildlife, or other aquatic life, or the growth or propagation thereof. In addition, plume interaction with the bottom shall:

(i) be minimized; and

(ii) not injuriously affect fish, shellfish, and wildlife spawning or nursery areas.

(c) The normal daily and seasonal temperature fluctuations that existed before the addition of heat shall be maintained.

[10] Flow and temperature shall be continuously monitored. Temperature measurements at Outfall 036 shall be recorded in one (1) hour intervals. The highest single recorded measurement of each day shall be reported on the state monthly monitoring report for each day. The highest single recorded daily measurement shall be reported on the federal discharge monitoring report as the maximum daily temperature of that month.

The permittee shall submit an annual summary of the individual data points for the effluent temperature. The annual summary shall be sent no later than January 31st of the succeeding year to the Industrial NPDES Permits Section at OWQWWPER@idem.in.gov and to the Compliance Branch at wwReports@idem.in.gov.

[11] If oil and grease is measured in the effluent in significant quantities, the source of such discharge is to be investigated and eliminated. The facility is required to investigate and eliminate any significant or measured concentration of oil and grease (quantities in excess of 5 mg/l). The intent of this requirement is to assure that oil and grease is not added to once-through cooling water in measurable quantities (5 mg/l).

B. NARRATIVE WATER QUALITY STANDARDS

At all times the discharge from any and all point sources specified within this permit shall not cause receiving waters:

1. including waters within the mixing zone, to contain substances, materials, floating debris, oil, scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:

   a. will settle to form putrescent or otherwise objectionable deposits;

   b. are in amounts sufficient to be unsightly or deleterious;

   c. produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;

   d. are in amounts sufficient to be acutely toxic to , or to otherwise severely injure or kill aquatic life, other animals, plants, or humans;

   e. are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.

2. outside the mixing zone, to contain substances in concentrations that on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

C. MONITORING AND REPORTING

1. <u>Representative Sampling</u>

   Samples and measurements taken as required herein shall be representative of the volume and nature of the discharge flow and shall be taken at times which reflect the full range and concentration of effluent parameters normally expected to be present. Samples shall not be taken at times to avoid showing elevated levels of any parameters.

2. Monthly Reporting

The permittee shall submit federal and state discharge monitoring reports to the Indiana Department of Environmental Management (IDEM) containing results obtained during the previous month and shall be submitted no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by the 28th day of the month following the month in which the permit becomes effective. These reports shall include, but not necessarily be limited to, the Discharge Monitoring Report (DMR) and the Monthly Monitoring Report (MMR). All reports shall be submitted electronically by using the NetDMR application, upon registration, receipt of the NetDMR Subscriber Agreement, and IDEM approval of the proposed NetDMR Signatory. Access the NetDMR website (for initial registration and DMR/MMR submittal) via CDX at: https://cdx.epa.gov/. The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance with the permit. See Part II.C.10 of this permit for Future Electronic Reporting Requirements.

a. For parameters with monthly average water quality based effluent limitations (WQBELs) below the LOQ, daily effluent values that are less than the limit of quantitation (LOQ) may be assigned a value of zero (0), unless, after considering the number of monitoring results that are greater than the limit of detection (LOD), and applying appropriate statistical techniques, a value other than zero (0) is warranted.

b. For all other parameters for which the monthly average WQBEL is equal to or greater than the LOQ, calculations that require averaging of measurements of daily values (both concentration and mass) shall use an arithmetic mean, except the monthly average for *E. coli* shall be calculated as a geometric mean. Daily effluent values that are less than the LOQ, that are used to determine the monthly average effluent level shall be accommodated in calculation of the average using statistical methods that have been approved by the Commissioner.

c. Effluent concentrations less than the LOD shall be reported on the Discharge Monitoring Report (DMR) forms as < (less than) the value of the LOD. For example, if a substance is not detected at a concentration of 0.1 µg/l, report the value as <0.1 µg/l.

d. Effluent concentrations greater than or equal to the LOD and less than the LOQ that are reported on a DMR shall be reported as the actual value and annotated on the DMR to indicate that the value is not quantifiable.

e. Mass discharge values which are calculated from concentrations reported as less than the value of the limit of detection shall be reported as less than the corresponding mass discharge value.

f. Mass discharge values that are calculated from effluent concentrations greater than the limit of detection shall be reported as the calculated value.

3. Definitions

a. "Monthly Average" means the total mass or flow-weighted concentration of all daily discharges during a calendar month on which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar month.

The monthly average discharge limitation is the highest allowable average monthly discharge for any calendar month.

b. "Daily Discharge" means the total mass of a pollutant discharged during the calendar day or, in the case of a pollutant limited in terms other than mass pursuant to 327 IAC 5-2-11(e), the average concentration or other measurement of the pollutant specified over the calendar day or any twenty-four hour period that reasonably represents the calendar day for the purposes of sampling.

c. "Daily Maximum" means the maximum allowable daily discharge for any calendar day.

d. A "24-hour composite sample" means a sample consisting of at least 3 individual flow-proportioned samples of wastewater, taken by the grab sample method or by an automatic sampler, which are taken at approximately equally spaced time intervals for the duration of the discharge within a 24-hour period and which are combined prior to analysis. A flow-proportioned composite sample may be obtained by:

(1) recording the discharge flow rate at the time each individual sample is taken,

(2) adding together the discharge flow rates recorded from each individuals sampling time to formulate the "total flow" value,

(3) the discharge flow rate of each individual sampling time is divided by the total flow value to determine its percentage of the total flow value,

(4) then multiply the volume of the total composite sample by each individual sample's percentage to determine the volume of that individual sample which will be included in the total composite sample.

e. "Concentration" means the weight of any given material present in a unit volume of liquid. Unless otherwise indicated in this permit, concentration values shall be expressed in milligrams per liter (mg/l).

f. The "Regional Administrator" is defined as the Region 5 Administrator, U.S. EPA, located at 77 West Jackson Boulevard, Chicago, Illinois 60604.

g. The "Commissioner" is defined as the Commissioner of the Indiana Department of Environmental Management, which is located at the following address: 100 North Senate Avenue, Indianapolis, Indiana 46204.

h. "Limit of Detection" or "LOD" means the minimum concentration of a substance that can be measured and reported with ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) for a particular analytical method and sample matrix.

i. "Limit of Quantitation" or "LOQ" means a measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calibrated at a specified concentration above the method detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the contaminant. This term is also sometimes called limit quantification or quantification level.

j. "Method Detection Level" or "MDL" means the minimum concentration of an analyte (substance) that can be measured and reported with a ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) as determined by procedure set forth in 40 CFR 136, Appendix B. The method detection level or MDL is equivalent to the LOD.

k. "Grab Sample" means a sample which is taken from a wastestream on a one-time basis without consideration of the flow rate of the wastestream and without considerations of time.

4. Test Procedures

The analytical and sampling methods used shall conform to the version of 40 CFR 136 incorporated by reference in 327 IAC 5. Different but equivalent methods are allowable if they receive the prior written approval of the Commissioner and the U.S. Environmental Protection Agency. When more than one test procedure is approved for the purposes of the NPDES program under 40 CFR 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 122.21(e)(3) and 122.44(i)(1)(iv).

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall maintain records of all monitoring information and monitoring activities, including:

a. The date, exact place and time of sampling or measurement;

b. The person(s) who performed the sampling or measurements;

c. The date(s) analyses were performed;

d. The person(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such measurements and analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of this monitoring shall be included in the calculation and reporting of the values required in the monthly Discharge Monitoring Report (DMR) and Monthly Monitoring Report (MMR). Such increased frequency shall also be indicated. Other monitoring data not specifically required in this permit (such as internal process or internal waste stream data) which is collected by or for the permittee need not be submitted unless requested by the Commissioner.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years. In cases where the original records are kept at another location, a copy of all such records shall be kept at the permitted facility. The three years shall be extended:

a. automatically during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or regarding promulgated effluent guidelines applicable to the permittee; or

b. as requested by the Regional Administrator or the Indiana Department of Environmental Management.

D. REOPENING CLAUSES

This permit may be modified, or alternately, revoked and reissued, after public notice and opportunity for hearing:

1. to comply with any applicable effluent limitation or standard issued or approved under 301(b)(2)(C),(D) and (E), 304 (b)(2), and 307(a)(2) of the Clean Water Act, if the effluent limitation or standard so issued or approved:

a. contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

b. controls any pollutant not limited in the permit.

2. to incorporate any of the reopening clause provisions cited at 327 IAC 5-2-16.

3. to include a case-specific Limit of Detection (LOD) and/or Limit of Quantitation (LOQ). The permittee must demonstrate that such action is warranted in accordance with the procedures specified under Appendix B, 40 CFR Part 136, using the most sensitive analytical methods approved by EPA under 40 CFR Part 136, or approved by the Commissioner.

PART II

STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. Duty to Comply

The permittee shall comply with all terms and conditions of this permit in accordance with 327 IAC 5-2-8(1) and all other requirements of 327 IAC 5-2-8. Any permit noncompliance constitutes a violation of the Clean Water Act and IC 13 and is grounds for enforcement action or permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

2. Duty to Mitigate

In accordance with 327 IAC 5-2-8(3), the permittee shall take all reasonable steps to minimize or correct any adverse impact to the environment resulting from noncompliance with this permit. During periods of noncompliance, the permittee shall conduct such accelerated or additional monitoring for the affected parameters, as appropriate or as requested by IDEM, to determine the nature and impact of the noncompliance.

3. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must obtain and submit an application for renewal of this permit in accordance with 327 IAC 5-2-8(2). It is the permittee's responsibility to obtain and submit the application. In accordance with 327 IAC 5-2-3(c), the owner of the facility or operation from which a discharge of pollutants occurs is responsible for applying for and obtaining the NPDES permit, except where the facility or operation is operated by a person other than an employee of the owner in which case it is the operator's responsibility to apply for and obtain the permit. Pursuant to 327 IAC 5-3-2(a)(2), the application must be submitted at least 180 days before the expiration date of this permit. This deadline may be extended if all of the following occur:

a. permission is requested in writing before such deadline;

b. IDEM grants permission to submit the application after the deadline; and

c. the application is received no later than the permit expiration date.

4. Permit Transfers

In accordance with 327 IAC 5-2-8(4)(D), this permit is nontransferable to any person except in accordance with 327 IAC 5-2-6(c). This permit may be transferred to another person by the permittee, without modification or revocation and reissuance being required under 327 IAC 5-2-16(c)(1) or 16(e)(4), if the following occurs:

a. the current permittee notified the Commissioner at least thirty (30) days in advance of the proposed transfer date;

b. a written agreement containing a specific date of transfer of permit responsibility and coverage between the current permittee and the transferee (including acknowledgment that the existing permittee is liable for violations up to that date, and the transferee is liable for violations from that date on) is submitted to the Commissioner;

c. the transferee certifies in writing to the Commissioner their intent to operate the facility without making such material and substantial alterations or additions to the facility as would significantly change the nature or quantities of pollutants discharged and thus constitute cause for permit modification under 327 IAC 5-2-16(d). However, the Commissioner may allow a temporary transfer of the permit without permit modification for good cause, e.g., to enable the transferee to purge and empty the facility's treatment system prior to making alterations, despite the transferee's intent to make such material and substantial alterations or additions to the facility; and

d. the Commissioner, within thirty (30) days, does not notify the current permittee and the transferee of the intent to modify, revoke and reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

The Commissioner may require modification or revocation and reissuance of the permit to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act or state law.

5. Permit Actions

a. In accordance with 327 IAC 5-2-16(b) and 327 IAC 5-2-8(4), this permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to, the following:

1. Violation of any terms or conditions of this permit;

2. Failure of the permittee to disclose fully all relevant facts or misrepresentation of any relevant facts in the application, or during the permit issuance process; or

3. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit, e.g., plant closure, termination of discharge by connection to a POTW, a change in state law that requires the reduction or elimination of the discharge, or information indicating that the permitted discharge poses a substantial threat to human health or welfare.

b. Filing of either of the following items does not stay or suspend any permit condition: (1) a request by the permittee for a permit modification, revocation and reissuance, or termination, or (2) submittal of information specified in Part II.A.3 of the permit including planned changes or anticipated noncompliance.

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the permitted facility that:

1. could significantly change the nature of, or increase the quantity of pollutants discharged; or
2. the commissioner may request to evaluate whether such cause exists.

c. In accordance with 327 IAC 5-1-3(a)(5), the permittee must also provide any information reasonably requested by the Commissioner.

6. Property Rights

Pursuant to 327 IAC 5-2-8(6) and 327 IAC 5-2-5(b), the issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to persons or private property or invasion of other private rights, any infringement of federal, state, or local laws or regulations. The issuance of the permit also does not preempt any duty to obtain any other state, or local assent required by law for the discharge or for the construction or operation of the facility from which a discharge is made.

7. Severability

In accordance with 327 IAC 1-1-3, the provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any person or circumstance is held invalid, the invalidity shall not affect any other provisions or applications of the permit which can be given effect without the invalid provision or application.

8. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

9. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act or state law.

10. Penalties for Violation of Permit Conditions

Pursuant to IC 13-30-4, a person who violates any provision of this permit, the water pollution control laws; environmental management laws; or a rule or standard adopted by the Environmental Rules Board is liable for a civil penalty not to exceed twenty-five thousand dollars ($25,000) per day of any violation.

Pursuant to IC 13-30-5, a person who obstructs, delays, resists, prevents, or interferes with (1) the department; or (2) the department's personnel or designated agent in the performance of an inspection or investigation performed under IC 13-14-2-2 commits a class C infraction.

Pursuant to IC 13-30-10-1.5(e), a person who willfully or negligently violates any NPDES permit condition or filing requirement, or any applicable standards or limitations of IC 13-18-3-2.4, IC 13-18-4-5, IC 13-18-12, IC 13-18-14, IC 13-18-15, or IC 13-18-16, commits a Class A misdemeanor.

Pursuant to IC 13-30-10-1.5(i), an offense under IC 13-30-10-1.5(e) is a Level 4 felony if the person knowingly commits the offense and knows that the commission of the offense places another person in imminent danger of death or serious bodily injury. The offense becomes a Level 3 felony if it results in serious bodily injury to any person, and a Level 2 felony if it results in death to any person.

Pursuant to IC 13-30-10-1.5(g), a person who willfully or recklessly violates any applicable standards or limitations of IC 13-18-8 commits a Class B misdemeanor.

Pursuant to IC 13-30-10-1.5(h), a person who willfully or recklessly violates any applicable standards or limitations of IC 13-18-9, IC 13-18-10, or IC 13-18-10.5 commits a Class C misdemeanor.

Pursuant to IC 13-30-10-1, a person who knowingly or intentionally makes any false material statement, representation, or certification in any NPDES form, notice, or report commits a Class B misdemeanor.

11. Penalties for Tampering or Falsification

In accordance with 327 IAC 5-2-8(10), the permittee shall comply with monitoring, recording, and reporting requirements of this permit. The Clean Water Act, as well as IC 13-30-10-1, provides that any person who knowingly or intentionally (a) destroys, alters, conceals, or falsely certifies a record, (b) tampers with, falsifies, or renders inaccurate or inoperative a recording or monitoring device or method, including the data gathered from the device or method, or (c) makes a false material statement or representation in any label, manifest, record, report, or other document; all required to be maintained under the terms of a permit issued by the department commits a Class B misdemeanor.

12. Toxic Pollutants

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant injurious to human health, and that standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition in accordance with 327 IAC 5-2-8(5). Effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants injurious to human health are effective and must be complied with, if applicable to the permittee, within the time provided in the implementing regulations, even absent permit modification.

13. Wastewater treatment plant and certified operators

The permittee shall have the wastewater treatment facilities under the responsible charge of an operator certified by the Commissioner in a classification corresponding to the classification of the wastewater treatment plant as required by IC 13-18-11-11 and 327 IAC 5-22. In order to operate a wastewater treatment plant the operator shall have qualifications as established in 327 IAC 5-22-7.

327 IAC 5-22-10.5(a) provides that a certified operator may be designated as being in responsible charge of more than one (1) wastewater treatment plant, if it can be shown that he will give adequate supervision to all units involved. Adequate supervision means that sufficient time is spent at the plant on a regular basis to assure that the certified operator is knowledgeable of the actual operations and that test reports and results are representative of the actual operations conditions. In accordance with 327 IAC 5-22-3(11), “responsible charge operator” means the person responsible for the overall daily operation, supervision, or management of a wastewater facility.

Pursuant to 327 IAC 5-22-10(4), the permittee shall notify IDEM when there is a change of the person serving as the certified operator in responsible charge of the wastewater treatment facility. The notification shall be made no later than thirty (30) days after a change in the operator.

14. Construction Permit

In accordance with IC 13-14-8-11.6, a discharger is not required to obtain a state permit for the modification or construction of a water pollution treatment or control facility if the discharger has an effective NPDES permit.

If the discharger modifies their existing water pollution treatment or control facility or constructs a new water pollution treatment or control facility for the treatment or control of any new influent pollutant or increased levels of any existing pollutant, then, within thirty (30) days after commencement of operation, the discharger shall file with the Department of Environment Management a notice of installation for the additional pollutant control equipment and a design summary of any modifications.

The notice and design summary shall be sent to the Office of Water Quality, Industrial NPDES Permits Section, 100 North Senate Avenue, Indianapolis, IN 46204-2251.

15. Inspection and Entry

In accordance with 327 IAC 5-2-8(8), the permittee shall allow the Commissioner, or an authorized representative, (including an authorized contractor acting as a representative of the Commissioner) upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept pursuant to the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;

c. Inspect at reasonable times any facilities, equipment or methods (including monitoring and control equipment), practices, or operations regulated or required pursuant to this permit; and

d. Sample or monitor at reasonable times, any discharge of pollutants or internal wastestreams for the purposes of evaluating compliance with the permit or as otherwise authorized.

16. New or Increased Discharge of Pollutants into an OSRW

This permit prohibits the permittee from undertaking any action that would result in the following:

a. A new or increased discharge of a bioaccumulative chemical of concern (BCC), other than mercury.

b. A new or increased discharge of mercury or a new or increased permit limit for a regulated pollutant that is not a BCC unless one of the following is completed prior to the commencement of the action:

(1) Information is submitted to the Commissioner demonstrating that the proposed new or increased discharges will not cause a significant lowering of water quality as defined under 327 IAC 2-1.3-2(50). Upon review of this information, the Commissioner may request additional information or may determine that the proposed increase is a significant lowering of water quality and require the permittee to do the following:

(i) Submit an antidegradation demonstration in accordance with 327 IAC 2-1.3-5; and
(ii) Implement or fund a water quality improvement project in the watershed of the OSRW that results in an overall improvement in water quality in the OSRW in accordance with 327 IAC 2-1.3-7.

(2) An antidegradation demonstration is submitted to and approved by the Commissioner in accordance with 327 IAC 2-1.3-5 and 327 IAC 2-1.3-6 and the permittee implements or funds a water quality improvement project in the watershed of the OSRW that results in an overall improvement in water quality in the OSRW in accordance with 327 IAC 2-1.3-7.

B. MANAGEMENT REQUIREMENTS

1. Proper Operation and Maintenance

The permittee shall at all times maintain in good working order and efficiently operate all facilities and systems (and related appurtenances) for the collection and treatment which are installed or used by the permittee and which are necessary for achieving compliance with the terms and conditions of this permit in accordance with 327 IAC 5-2-8(9).

Neither 327 IAC 5-2-8(9), nor this provision, shall be construed to require the operation of installed treatment facilities that are unnecessary for achieving compliance with the terms and conditions of the permit.

2. Bypass of Treatment Facilities

Pursuant to 327 IAC 5-2-8(12), the following are requirements for bypass:

a. The following definitions:

(1) "Bypass" means the intentional diversion of a waste stream from any portion of a treatment facility.

(2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. The permittee may allow a bypass to occur that does not cause a violation of the effluent limitations contained in this permit, but only if it is also for essential maintenance to assure efficient operation. These bypasses are not subject to Part II.B.2.c. and d.

c. The permittee must provide the Commissioner with the following notice:

(1) If the permittee knows or should have known in advance of the need for a bypass (anticipated bypass), it shall submit prior written notice. If possible, such notice shall be provided at least ten (10) days before the date of the bypass for approval by the Commissioner.

(2) As required by 327 IAC 5-2-8(11)(C), the permittee shall orally report an unanticipated bypass that exceeds any effluent limitations in the permit within twenty-four (24) hours from the time the permittee becomes aware of such noncompliance. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the cause of noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance.

If a complete report is submitted by e-mail within 24 hours of the noncompliance, then that e-mail report will satisfy both the oral and written reporting requirement. E-mails should be sent to wwreports@idem.in.gov.

d. The following provisions are applicable to bypasses:

(1) Except as provided by Part II.B.2.b., bypass is prohibited, and the Commissioner may take enforcement action against a permittee for bypass, unless the following occur:

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.

(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance.

(C) The permittee submitted notices as required under Part II.B.2.c.

(2) The Commissioner may approve an anticipated bypass, after considering its adverse effects, if the Commissioner determines that it will meet the conditions listed above in Part II.B.2.d.(1). The Commissioner may impose any conditions determined to be necessary to minimize any adverse effects.

e. Bypasses that result in death or acute injury or illness to animals or humans must be reported in accordance with the “Spill Response and Reporting Requirements” in 327 IAC 2-6.1, including calling 888/233-7745 as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the bypass are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

3. Upset Conditions

Pursuant to 327 IAC 5-2-8(13):

a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph c of this section, are met.

c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, that:

(1) An upset occurred and the permittee has identified the specific cause(s) of the upset;

(2) The permitted facility was at the time being properly operated;

(3) The permittee complied with any remedial measures required under Part II.A.2; and

(4) The permittee submitted notice of the upset as required in the "Twenty-Four Hour Reporting Requirements," Part II.C.3, or 327 IAC 2-6.1, whichever is applicable. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

d. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof pursuant to 40 CFR 122.41(n)(4).

4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State and to be in compliance with all Indiana statutes and regulations relative to liquid and/or solid waste disposal. The discharge of pollutants in treated wastewater is allowed in compliance with the applicable effluent limitations in Part I. of this permit.

C. REPORTING REQUIREMENTS

1. Planned Changes in Facility or Discharge

Pursuant to 327 IAC 5-2-8(11)(F), the permittee shall give notice to the Commissioner as soon as possible of any planned physical alterations or additions to the permitted facility. In this context, permitted facility refers to a point source discharge, not a wastewater treatment facility. Notice is required only when either of the following applies:

a. The alteration or addition may meet one of the criteria for determining whether the facility is a new source as defined in 327 IAC 5-1.5.

b. The alteration or addition could significantly change the nature of, or increase the quantity of, pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in Part I.A. nor to notification requirements in Part II.C.9. of this permit.

Following such notice, the permit may be modified to revise existing pollutant limitations and/or to specify and limit any pollutants not previously limited.

2. Monitoring Reports

Pursuant to 327 IAC 5-2-8(10) and 327 IAC 5-2-13 through 15, monitoring results shall be reported at the intervals and in the form specified in “Discharge Monitoring Reports”, Part I.C.2.

3. Twenty-Four Hour Reporting Requirements

Pursuant to 327 IAC 5-2-8(11)(C), the permittee shall orally report to the Commissioner information on the following types of noncompliance within 24 hours from the time permittee becomes aware of such noncompliance. If the noncompliance meets the requirements of item b (Part II.C.3.b) or 327 IAC 2-6.1, then the report shall be made within those prescribed time frames. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge that is in noncompliance are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

a. Any unanticipated bypass which exceeds any effluent limitation in the permit;

b. Any noncompliance which may pose a significant danger to human health or the environment. Reports under this item shall be made as soon as the permittee becomes aware of the noncomplying circumstances; or

c. Any upset (as defined in Part II.B.3 above) that causes an exceedance of any effluent limitation in the permit.

The permittee can make the oral reports by calling (317)232-8670 during regular business hours and asking for the Compliance Data Section or by calling (317) 233-7745 ((888)233-7745 toll free in Indiana) during non-business hours. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce and eliminate the noncompliance and prevent its recurrence. The Commissioner may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. Alternatively the permittee may submit a “Bypass/Overflow Report” (State Form 48373) or a “Noncompliance 24-Hour Notification Report” (State Form 52415), whichever is appropriate, to IDEM at (317) 232-8637 or wwreports@idem.in.gov. If a complete e-mail submittal is sent within 24 hours of the time that the permittee became aware of the occurrence, then the email report will satisfy both the oral and written reporting requirements.

4. Other Compliance/Noncompliance Reporting

Pursuant to 327 IAC 5-2-8(11)(D), the permittee shall report any instance of noncompliance not reported under the "Twenty-Four Hour Reporting Requirements" in Part II.C.3, or any compliance schedules at the time the pertinent Discharge Monitoring Report is submitted. The report shall contain the information specified in Part II.C.3;

The permittee shall also give advance notice to the Commissioner of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements; and

All reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

5. Other Information

Pursuant to 327 IAC 5-2-8(11)(E), where the permittee becomes aware of a failure to submit any relevant facts or submitted incorrect information in a permit application or in any report, the permittee shall promptly submit such facts or corrected information to the Commissioner.

6. Signatory Requirements

Pursuant to 327 IAC 5-2-22 and 327 IAC 5-2-8(15):

a. All reports required by the permit and other information requested by the Commissioner shall be signed and certified by a person described below or by a duly authorized representative of that person:

(1) For a corporation: by a responsible corporate officer. A "responsible corporate officer" means either of the following:

a. A president, secretary, treasurer, any vice president of the corporation in charge of a principal business function, or any other person who performs similar policymaking or decision making functions for the corporation; or

b. The manager of one (1) or more manufacturing, production, or operating facilities provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty to make major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a Federal, State, or local governmental body or any agency or political subdivision thereof: by either a principal executive officer or ranking elected official.

(4) Under the proposed Federal E-Reporting Rule, a method will be developed for submittal of all affected reports and documents using electronic signatures that is compliant with the Cross-Media Electronic Reporting Regulation (CROMERR). Enrollment and use of NetDMR currently provides for CROMERR-compliant report submittal.

b. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described above.

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or a position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

(3) The authorization is submitted to the Commissioner.

c. Electronic Signatures. If documents described in this section are submitted electronically by or on behalf of the NPDES-regulated facility, any person providing the electronic signature for such documents shall meet all relevant requirements of this section, and shall ensure that all of the relevant requirements of 40 CFR part 3 (including, in all cases, subpart D to part 3) (Cross-Media Electronic Reporting) and 40 CFR part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

d. Certification. Any person signing a document identified under Part II.C.6. shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7. Availability of Reports

Except for data determined to be confidential under 327 IAC 12.1, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Indiana Department of Environmental Management and the Regional Administrator. As required by the Clean Water Act, permit applications, permits, and effluent data shall not be considered confidential.

8. Penalties for Falsification of Reports

IC 13-30 and 327 IAC 5-2-8(15) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance, shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 180 days per violation, or by both.

9. Changes in Discharge of Toxic Substances

Pursuant to 327 IAC 5-2-9, the permittee shall notify the Commissioner as soon as it knows or has reason to know:

a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant that is not limited in the permit if that discharge will exceed the highest of the following notification levels.

(1) One hundred micrograms per liter (100 µg/l);

(2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or

(4) A notification level established by the Commissioner on a case-by-case basis, either at the Commissioner's own initiative or upon a petition by the permittee. This notification level may exceed the level specified in subdivisions (1), (2), or (3) but may not exceed the level which can be achieved by the technology-based treatment requirements applicable to the permittee under the CWA (see 327 IAC 5-5-2).

b. That it has begun or expects to begin to use or manufacture, as an intermediate or final product or byproduct, any toxic pollutant that was not reported in the permit application under 40 CFR 122.21(g)(9). However, this subsection b. does not apply to the permittee's use or manufacture of a toxic pollutant solely under research or laboratory conditions.

10. Future Electronic Reporting Requirements

IDEM is currently developing the technology and infrastructure necessary to allow compliance with the EPA Phase 2 e-reporting requirements per 40 CFR 127.16 and to allow electronic reporting of applications, notices, plans, reports, and other information not covered by the federal e-reporting regulations.

IDEM will notify the permittee when IDEM's e-reporting system is ready for use for one or more applications, notices, plans, reports, or other information. This IDEM notice will identify the specific applications, notices, plans, reports, or other information that are to be submitted electronically and the permittee will be required to use the IDEM electronic reporting system to submit the identified application(s), notice(s), plan(s), report(s), or other information.

See Part I.C.2. of this permit for the current electronic reporting requirements for the submittal of monthly monitoring reports such as the Discharge Monitoring Report (DMR) and the Monthly Monitoring Report (MMR).

National Pollutant Discharge Elimination System
Briefing Memo for
ArcelorMittal Plate LLC – Gary Plate
Draft: July 2020
Final: September 2020

Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Permittee:	ArcelorMittal Plate LLC – Gary Plate 250 W U.S. Highway 12 Burns Harbor, Indiana, 46304
Existing Permit Information:	Permit Number: IN0062197 Expiration Date: October 31, 2020
Facility Contact:	Morgan Swanson, Environmental Engineer (219) 787-2646, morgan.swanson@ArcelorMittal.com
Facility Location:	One North Broadway Avenue Gary, Indiana Lake County
Receiving Stream(s):	Lake Michigan
GLI/Non-GLI:	GLI
Proposed Permit Action:	Renewal
Date Application Received:	May 20, 2020
Source Category	NPDES Minor – Industrial
Permit Writer:	Megan Miller, Environmental Manager (317)233-1854, mmiller@idem.in.gov

Table of Contents

1.0 INTRODUCTION

The Indiana Department of Environmental Management (IDEM) received a National Pollutant Discharge Elimination System (NPDES) Permit application from ArcelorMittal Plate LLC – Gary Plate on May 20, 2020.

In accordance with 327 IAC 5-2-6(a), the current five year permit was issued with an effective date of November 1, 2015. A five year permit is proposed in accordance with 327 IAC 5-2-6(a).

The Federal Water Pollution Control Act (more commonly known as the Clean Water Act), as amended, (Title 33 of the United States Code (U.S.C.) Section 1251 *et seq.*), requires an NPDES permit for the discharge of pollutants into surface waters. Furthermore, Indiana law requires a permit to control or limit the discharge of any contaminants into state waters or into a publicly owned treatment works. This proposed permit action by IDEM complies with and implements these federal and state requirements.

In accordance with Title 40 of the Code of Federal Regulations (CFR) Section 124.7, as well as Title 327 of the Indiana Administrative Code (IAC) 327 Article 5-3-7, a Statement of Basis, or Briefing Memo, is required for certain NPDES permits. This document fulfills the requirements established in these regulations. This Briefing Memo was prepared in order to document the factors considered in the development of NPDES Permit effluent limitations. The technical basis for the Briefing Memo may consist of evaluations of promulgated effluent guidelines, existing effluent quality, receiving water conditions, Indiana water quality standards-based wasteload allocations, and other information available to IDEM. Decisions to award variances to Water Quality Standards or promulgated effluent guidelines are justified in the Briefing Memo where necessary.

2.0 FACILITY DESCRIPTION

2.1 General

ArcelorMittal Plate LLC – Gary Plate is classified under Standard Industrial Classification (SIC) Code 3398-Heat Treat Furnace.

The facility manufactures hot rolled carbon steel plates from slabs and heat treating of steel plates. The rolling and heat treating operations have several furnaces and an air compressor that requires cooling water. This cooling water is non-contact cooling water is recycled to the maximum extent feasible to use as process water. The remaining noncontact cooling is discharged through Outfall 036. All process water is discharged to a scale pit that discharges to the USS C-Lot Lagoons for treatment and subsequently discharged through United States Steel Outfalls 028/030.

Steam condensate and intake strainer backwash are discharged through Outfall 036. The incoming water supply runs through two (2) kinney strainers. The backwash from the strainers is discharged through Outfall 036. This water flows continuously. All other operations are intermittent.

The source water for the facility is Lake Michigan water provided by United States Steel Gary Works.

A map showing the location of the facility has been included as Figure 1.

Figure 1: Facility Location

One North Broadway Avenue
Gary, IN – Lake County

2.2 Outfall Locations

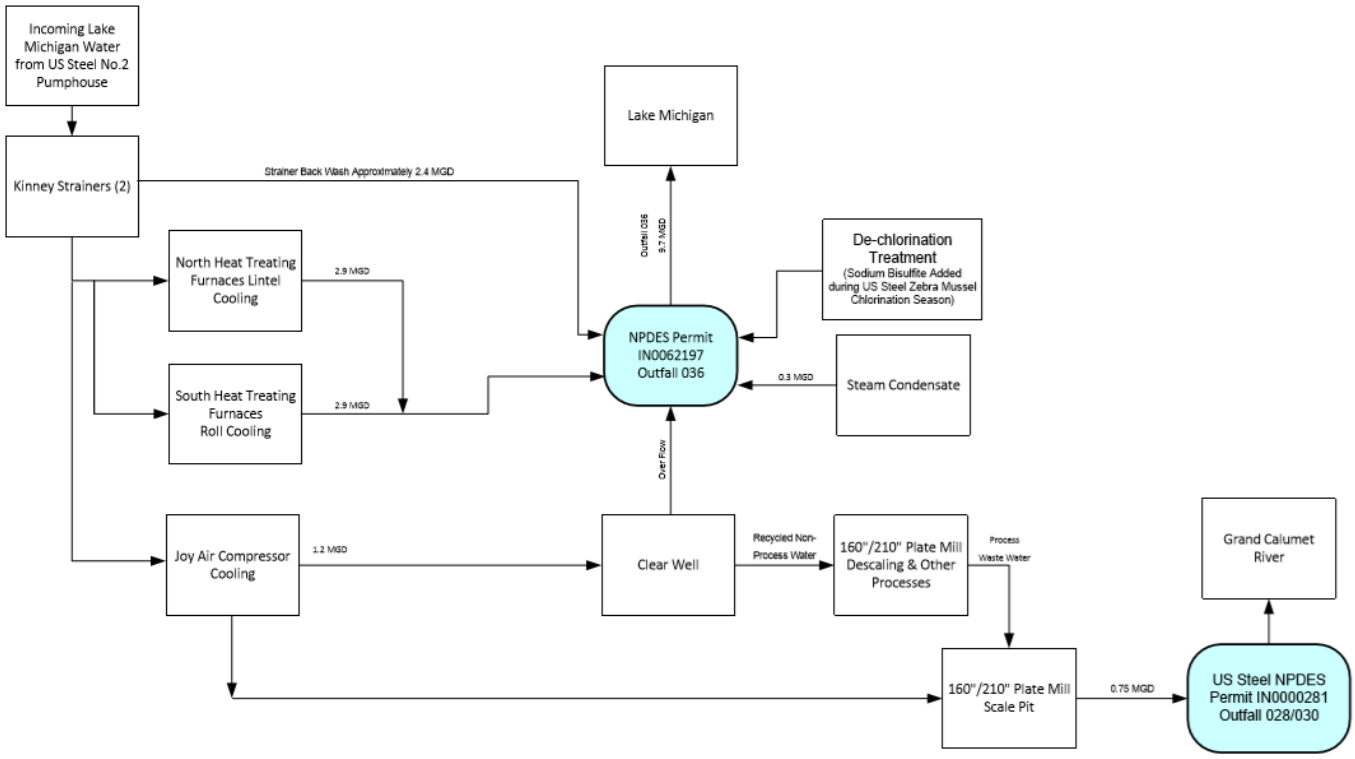
Outfall 036	Latitude: 41º 37’ 32.2” Longitude: -87º 20’ 9.6”

2.3 Wastewater Treatment

Outfall 036 consists of non-contact cooling water from the Plate Mill. In addition to cooling water, steam condensate, some stormwater and intake strainer backwash are discharged from the Outfall. The backwash is the only waste stream that flows continuously. Water used for non-contact cooling is treated with sodium hypochlorite by US Steel at the intake during Quagga and Zebra Mussel season. The facility also coordinates with U.S. Steel (the facility is located within the US Steel Gary Works facility) to use sodium bisulfite to neutralize the sodium hypochlorite.

The wastewater treatment system has an average discharge of approximately 2.13 MGD. A Water Balance Diagram has been included as Figure 2.

Figure 2: Water Balance Diagram



Outfall 036: The average daily discharge from Outfall 036 to Lake Michigan is 2.13 MGD. The design flow (highest monthly average) based on the most recent 2 years of data is 2.23 MGD.

The permittee shall have the wastewater treatment facilities under the responsible charge of an operator certified by the Commissioner in a classification corresponding to the classification of the wastewater treatment plant as required by IC 13-18-11-11 and 327 IAC 5-22-5. In order to operate a wastewater treatment plant, the operator shall have qualifications as established in 327 IAC 5-22-7.

IDEM has determined that the permittee doesn't qualify for an industrial wastewater treatment plant classification because the wastewater is not treated prior to discharge.

2.4 Changes in Operation

In the permit application, no changes in operation were identified as occurring since the previous permit renewal.

2.5 Facility Storm Water

Storm water does not come in contact with any equipment, product or processes. All areas of operation are contained within the mill building. Storm water contributing to the outfall is only rain that falls at the outfall. Additionally, the U.S. Steel storm water BMPs and SWPPP encompass the area.

3.0 PERMIT HISTORY

3.1 Compliance History

The purpose of this section is to summarize any violations and enforcement actions associated with the permit. A review of this facility's discharge monitoring data was conducted for compliance verification and shows no permit limitation violations at Outfall 036 between April 2018 and May 2020. There are no pending or current enforcement actions regarding this NPDES permit.

4.0 LOCATION OF DISCHARGE/RECEIVING WATER USE DESIGNATION

Outfall 036 discharges directly into Lake Michigan. The Indiana portion of the open waters of Lake Michigan is designated for full body contact recreation; shall be capable of supporting a well-balanced, warm water aquatic community and full body contact recreation in accordance with 327 IAC 2-1.5-5.

The permittee discharges to a waterbody that has been identified as a water of the state within the Great Lakes system. Therefore, it is subject to NPDES requirements specific to Great Lakes system dischargers under 327 IAC 2-1.5 and 327 IAC 5-2-11.4 through 11.6. These rules contain water quality standards applicable to dischargers within the Great Lakes system and the procedures to calculate and incorporate water quality-based effluent limitations.

4.1 Total Maximum Daily Loads (TMDLs)

Section 303(d) of the Clean Water Act requires states to identify waters, through their Section 305(b) water quality assessments, that do not or are not expected to meet applicable water quality standards with federal technology based standards alone. States are also required to develop a priority ranking for these waters taking into account the severity of the pollution and the designated uses of the waters. Once this listing and ranking of impaired waters is completed, the states are required to develop Total Maximum Daily Loads (TMDLs) for these waters in order to achieve compliance with the water quality standards. Indiana's 2018 303(d) List of Impaired Waters was developed in accordance with Indiana's Water Quality Assessment and 303(d) Listing Methodology for Waterbody Impairments and Total Maximum Daily Load Development for the 2018 Cycle.

Lake Michigan, Assessment-Unit INC0112_G1092, HUC 040400010102, is on the 2018 303(d) list for impairments for 2 impairments: PCBs and Mercury.

A TMDL for Lake Michigan has been developed for E. coli (Lake Michigan Shoreline E. coli TMDL. U.S. EPA under Section 303(d) of the Clean Water Act approved the Lake Michigan Shoreline TMDL report on September 1, 2004. E. coli is no longer listed as a pollutant of concern on the 2018 303(d) List.

5.0 PERMIT LIMITATIONS

Under 327 IAC 5-2-10 (see also 40 CFR 122.44), NPDES permit limits are based on either TBELs (including TBELs developed on a case-by-case basis using BPJ, where applicable) or WQBELs, whichever is most stringent. The decision to limit or monitor the parameters contained in this permit is based on information contained in the permittee's NPDES application, and other available information relating to the facility and the receiving waterbody. In addition, when renewing a permit, the existing permit limits and the antibacksliding requirements under 327 IAC 5-2-10(a)(11) must be considered.

5.1 Technology-Based Effluent Limits (TBEL)

TBELs require every individual member of a discharge class or category to operate their water pollution control technologies according to industry-wide standards and accepted engineering practices. TBELs are developed by applying the National Effluent Limitation Guidelines (ELGs) established by EPA for specific industrial categories. Technology-based treatment requirements established pursuant to sections 301(b) and 306 of the CWA represent the minimum level of control that must be imposed in an NPDES permit (327 IAC 5-5-2(a)).

In the absence of ELGs, TBELs can also be established on a case-by-case basis using best professional judgment (BPJ) in accordance with 327 IAC 5-2-10 and 327 IAC 5-5 (which implement 40 CFR 122.44, 125.3, and Section 402(a)(1) of the Clean Water Act (CWA)).

5.2 Water Quality-Based Effluent Limits

WQBELs are designed to be protective of the beneficial uses of the receiving water and are independent of the available treatment technology. The WQBELs for this facility are based on water quality criteria in 327 IAC 2-1.5-8 or developed under the procedures described in 327 IAC 2-1.5-11 through 16 and implementation procedures in 327 IAC 5. Limitations are required for any parameter which has the reasonable potential to exceed a water quality criterion as determined using the procedures under 327 IAC 5-2-11.5.

5.3 Effluent Limitations and Monitoring Requirements by Outfall

Under 327 IAC 5-2-10(a) (see also 40 CFR 122.44), NPDES permit requirements are technology-based effluent limitations and standards (including technology-based effluent limitations (TBELs) based on federal effluent limitations guidelines or developed on a case-by-case basis using best professional judgment (BPJ), where applicable), water quality standards-based, or based on other more stringent requirements. The decision to limit or monitor the parameters contained in this permit is based on information contained in the permittee's NPDES application and other available information relating to the facility and the receiving waterbody as well as the applicable federal effluent limitations guidelines. In addition, when renewing a permit, the existing permit limits, the antibacksliding requirements under 327 IAC 5-2-10(a)(11), and the antidegradation requirements under 327 IAC 2-1.3 must be considered.

5.3.1 All External Outfalls (036)

Narrative Water Quality Based Limits

The narrative water quality criteria contained under 327 IAC 2-1.5-8(b)(1) and (2) have been included in this permit to ensure that these minimum water quality conditions are met.

Flow

The permittee's flow is to be monitored in accordance with 327 IAC 5-2-13(a)(2).

5.3.2 Outfall (036)

pH

Limitations for pH in the proposed permit are based on the criteria established in 327 IAC 2-1.5-8(c)(2).

Oil and Grease (O & G)

Oil and Grease monitoring and limitations have been retained from the previous permit. Since this discharge will consist primarily of non-contact cooling water it is not expected to have significant concentrations of Oil and Grease. A footnote will be included in the

permit that requires an investigation into the cause for discharges with Oil and Grease concentrations over 5 mg/l.

Temperature

Temperature monitoring has been retained from the previous permit. Because this is primarily non-contact cooling water, the discharge temperature is a parameter of concern. Direct discharges to Lake Michigan must meet the temperature requirements in 327 IAC 2-1.5-8(c)(4)(D). This outfall was originally permitted through the US Steel Gary Works permit (IN0000281). In addition to ArcelorMittal Gary Plate Outfall 036, US Steel Outfalls 035, 037 and 039 discharge cooling water to Lake Michigan, with Outfall 035 being the largest source of heat. The thermal mixing zone for Outfall 035 was modeled using the CORMIX mixing zone model with the results included in a November 13, 1995 permit modification request. The resulting July 3, 1997 permit modification included a maximum daily average thermal limit of 1.211 billion BTUs/hr and a requirement for US Steel to conduct a temperature study in Lake Michigan at the edge of the Outfall 035 mixing zone to support the results of the CORMIX model. The results of the temperature study, included in a November 24, 1998 report, demonstrated that the temperature criteria were met at the 1,000 foot arc as required in 327 IAC 2-1.5-8(c)(4)(D). Based on the CORMIX model and temperature study, subsequent permits that incorporated Outfalls 036, 037 and 039 have only required monitoring and reporting for temperature as long as the thermal discharge from the outfall remains below that permitted for Outfall 035 in 1997. The thermal discharge from Outfall 036 is less than 1.211 billion BTUs/hr and is not expected to increase above this level during the permit term.

Total Residual Chloride (TRC)

A re-evaluation of the mass limits was conducted due to a reduction in the flow discharge volume and the fact that the facility also indicates within the permit application that some of the operations (rolling operations) were permanently idled during the past permit cycle and not expected to be restarted. The only operation expected to operate during the next permit cycle are the annealing furnaces. The estimated maximum discharge is listed as 9.7 MGD but due to the idled operations the long-term average flow listed on the application is 6.02 MGD. Based on the data provided and to reflect current operations, the highest maximum flow to be utilized for calculations is 6.02 MGD. IDEM will conduct the calculation based on the following:

((LOQ mg/l) x the design flow (MGD) x 8.345)

0.06 mg/l X 6.02 MGD X 8.345 = 3.01 lbs/day Daily Maximum. Compliance with the daily maximum mass value (0.93 lbs/day) will be demonstrated if the calculated mass value is less than 3.01 lbs/day.

It is recognized that chlorine is not under the control of the permittee, but the requirement must be included in the permit.

5.4 Whole Effluent Toxicity (WET) TESTING

The permit does not contain a requirement to conduct whole effluent toxicity (WET) tests.

5.5 Antibacksliding

Pursuant to 327 IAC 5-2-10(a)(11), unless an exception applies, a permit may not be renewed, reissued or modified to contain effluent limitations that are less stringent than the comparable effluent limitations in the previous permit. Therefore, the limits for TRC shall be retained from the previous permit.

5.6 Antidegradation

Indiana's Antidegradation Standards and Implementation procedures are outlined in 327 IAC 2-1.3. The antidegradation standards established by 327 IAC 2-1.3-3 apply to all surface waters of the state. The permittee is prohibited from undertaking any deliberate action that would result in a new or increased discharge of a bioaccumulative chemical of concern (BCC) or a new or increased permit limit for a regulated pollutant that is not a BCC unless information is submitted to the commissioner demonstrating that the proposed new or increased discharge will not cause a significant lowering of water quality, or an antidegradation demonstration submitted and approved in accordance 327 IAC 2-1.3-5 and 2-1.3-6.

The NPDES permit does not propose to establish a new or increased loading of a regulated pollutant; therefore, the Antidegradation Implementation Procedures in 327 IAC 2-1.3-5 and 2-1.3-6 do not apply to the permitted discharge.

5.7 Water Treatment Additives

In the event that changes are to be made in the use of water treatment additives that could significantly change the nature of, or increase the discharge concentration of any of the additives contributing to an outfall governed under the permit, the permittee must apply for and obtain approval from IDEM prior to such discharge. Discharges of any such additives must meet Indiana water quality standards. The permittee must apply for permission to use water treatment additives by completing and submitting State Form 50000 (Application for Approval to Use Water Treatment Additives) available at: http://www.in.gov/idem/5157.htm and submitting any needed supplemental information. In the review and approval process, IDEM determines, based on the information submitted with the application, whether the use of any new or changed water treatment additives/chemicals or dosage rates could potentially cause the discharge from any permitted outfall to cause chronic or acute toxicity in the receiving water.

The authority for this requirement can be found under one or more of the following: 327 IAC 5-2-8(11)(B), which generally requires advance notice of any planned changes in the permitted facility, any activity, or other circumstances that the permittee has reason to believe may result in noncompliance with permit requirements; 327 IAC 5-2-8(11)(F)(ii), which generally requires notice as soon as possible of any planned physical alterations or additions to the permitted facility if the alteration or addition could significantly change the nature of, or increase the

quantity of, pollutants discharged; and 327 IAC 5-2-9(2) which generally requires notice as soon as the discharger knows or has reason to know that the discharger has begun or expects to begin to use or manufacture, as an intermediate or final product or byproduct, any toxic pollutant that was not reported in the permit application.

The following is a list of water treatment additives currently approved for use at the facility:

Supplier	WTA	Outfall	Purpose
ChemTreat, Inc.	Sodium Bisulfite	036	Neutralize sodium hypochlorite

6.0 PERMIT DRAFT DISCUSSION

6.1 Discharge Limitations, Monitoring Conditions and Rationale

The proposed final effluent limitations are based on the more stringent of the Indiana water quality-based effluent limitations (WQBELs), technology-based effluent limitations (TBELs), or approved total maximum daily loads (TMDLs) and NPDES regulations as appropriate for each regulated outfall. Section 5.3 of this document explains the rationale for the effluent limitations at each Outfall.

Analytical and sampling methods used shall conform to the version of 40 CFR 136 as referenced in 327 IAC 5-2-13(d)(1) and 327 IAC 5-2-1.5.

Nothing has changed to warrant modifying the monitoring conditions.

Outfall 036:

Parameter	Monthly Average lbs/day/mg/l	Daily Maximum lbs/day/mg/l	Units	Minimum Frequency	Sample Type
Flow	Report	Report	MGD	Daily	Continuous
Oil and Grease	---	Report	mg/l	3 X Weekly	Grab
Temperature	Report	Report	°F	Daily	Continuous
TRC	0.40 0.008	0.90 0.018	lbs/day mg/l	5 X Weekly	Grab

Parameter	Daily Minimum	Daily Maximum	Units	Minimum Frequency	Sample Type
pH	6.0	9.0	Std Units	3 X Weekly	Grab

6.2 Schedule of Compliance

The circumstances in this NPDES permit do not qualify for a schedule of compliance.

6.3 Special Conditions and Other Permit Requirements

There are no special conditions on this permit.

6.4 Spill Response and Reporting Requirement

Reporting requirements associated with the Spill Reporting, Containment, and Response requirements of 327 IAC 2-6.1 are included in Part II.B.2.(d), Part II.B.3.(c), and Part II.C.3. of the NPDES permit. Spills from the permitted facility meeting the definition of a spill under 327 IAC 2-6.1-4(15), the applicability requirements of 327 IAC 2-6.1-1, and the Reportable Spills requirements of 327 IAC 2-6.1-5 (other than those meeting an exclusion under 327 IAC 2-6.1-3 or the criteria outlined below) are subject to the Reporting Responsibilities of 327 IAC 2-6.1-7.

It should be noted that the reporting requirements of 327 IAC 2-6.1 do not apply to those discharges or exceedances that are under the jurisdiction of an applicable permit when the substance in question is covered by the permit and death or acute injury or illness to animals or humans does not occur. In order for a discharge or exceedance to be under the jurisdiction of this NPDES permit, the substance in question (a) must have been discharged in the normal course of operation from an outfall listed in this permit, and (b) must have been discharged from an outfall for which the permittee has authorization to discharge that substance.

6.5 Permit Processing/Public Comment

Pursuant to IC 13-15-5-1, IDEM will publish the draft permit document online at https://www.in.gov/idem/6408.htm; additional information on options to receive notification of permit actions occurring can be found at https://www.in.gov/idem/6777.htm. A 30-day comment period is available in order to solicit input from interested parties, including the general public.

6.6 Post Public Notice Addendum

	[PDF]	09/02/2020		00608
ArcelorMittal LLC Gary Plate	NPDES Renewal Draft Permit [PDF]	07/30/2020 - 08/31/2020	Yes	Permit Number: IN0062197 Project Manager: Miller, Megan

The draft NPDES permit for ArcelorMittal Plate LLC - Gary Plate was made available for public comment from July 30, 2020 through August 31, 2020 as part of Public Notice No. PN# 20200730 – IN0062197 - D on IDEM's website at https://www.in.gov/idem/6408.htm. During this comment period, a comment letter dated 8/26/2020, from Morgan Swanson, Environmental Engineer, was received. The comments submitted by Morgan Swanson, and this Office's corresponding responses are summarized below: Any changes to the permit and/or Briefing Memo are so noted below.

Comment 1: Part 1 A.1. [9](d) Gary Plate does not blow down in the operation of a closed cycle cooling facility or have waste heat exchangers. This doesn't apply.

Response 1: The above requested change has been made. Part 1 A.1. [9](d) was removed.

Comment 2: Part 1 A.1. [9](e) Gary Plate receives water from US Steel. Gary Plate does not have water intakes. This doesn't apply.

Response 2: The above requested change has been made. Part 1 A.1. [9](e) was removed.

Comment 3: Part 1 A.1. [9](f) This does not apply.

Response 3: The above requested change has been made. Part 1 A.1. [9](f) was removed

Comment 4: Part 1 A.1. [9](g) Gary Plate does not have intakes from Lake Michigan, this section indicates to continuously record intake and discharge temperature and flow. Gary Plate only records continuous flow and temperature for discharge into Lake Michigan. Intakes are at US Steel.

Response 4: The above requested change has been made. Part 1 A.1. [9](g) was removed.

Comment 5: Briefing Memo-Page 1 Facility County is indicated as "Porter". ArcelorMittal Plate LLC – Gary Plate is located in Lake County Indiana.

Response 5: The above requested change has been made.

Comment: Briefing Memo-Page 5 'Contact Cooling water is treated with sodium hypochlorite **by US Steel** at the intake during Quagga and Zebra Mussel season.' Add "by US Steel".

Response: The above requested change has been made.

Comment: Briefing Memo-Page 7 Request removal for Figure 3; incorrect site location for Gary Plate and Outfall 036. Figure 3 is the entrance to US Steel.

Response: The above requested change has been made. Figure 3 was removed.

Comment: Briefing Memo-Page 11 Sodium Hypochlorite is not used at the ArcelorMittal Gary Plate Facility. All Quagga/Zebra mussel treatment is completed by US Steel. Request to remove this chemical as an approved water treatment additive.

Response: The above requested change has been made. Sodium Hypochlorite has been removed from the approved water treatment additive list.

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PUBLIC NOTICE NO. 20200917 – IN0062197 – F
DATE OF NOTICE: SEPTEMBER 17, 2020

The Office of Water Quality issues the following NPDES FINAL PERMIT.

MINOR – RENEWAL

ARCELORMITTAL LLC - GARY PLATE, Permit No. IN0062197, LAKE COUNTY, 1 North Broadway Avenue, Gary IN. This industrial facility will discharge 2.23 million gallons daily of stormwater and non-process wastewater to Lake Michigan. Permit Manager: Megan Miller, 317/233-1954, mmiller@idem.in.gov.

Notice of Right to Administrative Review [Permits]

If you wish to challenge this Permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA), and serve a copy of the Petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Environmental Adjudication
Indiana Government Center North
100 North Senate Avenue - Room N103
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
100 North Senate Avenue - Room 1301
Indianapolis, Indiana 46204

The Petition must contain the following information:

1. The name, address and telephone number of each petitioner.
2. A description of each petitioner's interest in the Permit.
3. A statement of facts demonstrating that each petitioner is:
    a. a person to whom the order is directed;
    b. aggrieved or adversely affected by the Permit;
    c. entitled to administrative review under any law.
4. The reasons for the request for administrative review.
5. The particular legal issues proposed for review.
6. The alleged environmental concerns or technical deficiencies of the Permit.
7. The Permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
8. The identity of any persons represented by the petitioner.
9. The identity of the person against whom administrative review is sought.
10. A copy of the Permit that is the basis of the petition.
11. A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the Permit. Examples are:

1. Failure to file a Petition by the applicable deadline;
2. Failure to serve a copy of the Petition upon IDEM when it is filed; or
3. Failure to include the information required by law.

If you seek to have a Permit stayed during the Administrative Review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.
Pursuant to IC 4-21.5-3-17, OEA will provide all parties with Notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to Notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.
More information on the appeal review process is available on the website for the Office of Environmental Adjudication at http://www.in.gov/oea.

ArcelorMittal Plate, LLC.
(Gary Plate)

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 27, 2020

Indiana Department of Environmental Management
Cashiers Office - Mail Code 50-10C
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Subject: **NPDES Permit IN0062197**
2020 Renewal Application
ArcelorMittal Plate, LLC. (Gary Plate)

Enclose in the permit renewal application package for your review for ArcelorMittal Plate, LLC (Gary Plate). The application package includes the following required items:

- $50 Permit Fee
- Application Completeness Checklist and Submittal Form
- General Information Application
- EPA Form 2C – Application for Permit to Discharge Wastewater for Existing Operations
- Potentially Affected Persons Form and Mailing Labels

Please call me at (219) 787-4961 with any questions or comments.

Sincerely,

Robert Maciel
Environmental Manager

ArcelorMittal Burns Harbor LLC.
250 West US Hwy 12
Burns Harbor, IN 46304-9745
USA

T 219.787.2712
F 219.787.4973
www.arcelormittal.com

ArcelorMittal Plate LLC - Gary Plate

160”/210” Plate Mill

NPDES Discharge Permit IN0062197 Renewal Application

April 2020

Prepared by:
Environmental Process Technologies, Inc.

ArcelorMittal Plate LLC - Gary Plate
NPDES Permit IN0062197
Renewal Application

Table of Contents

ArcelorMittal Plate LLC - Gary Plate
NPDES Permit IN0062197
Renewal Application

1. Process Description

1.1. Facility Description

ArcelorMittal Plate LLC - Gary Plate is a carbon steel plate and heat treating industrial facility located in Gary, Indiana. The facility is located within the United States Steel Corporation (USS) Gary Works facility. There is one non-contact cooling water discharge for the facility that is described as Outfall 036. Before November 1, 2005 Outfall 036 was included in the USS permit IN0000281. The facility is referred to as the 160”/210” Plate Mill.

The 160”/210” Plate Mill is divided up into two areas of operations:

- Heat Treating Operations
- Shipping

All areas of operations are contained within mill buildings. Heat Treating Operations has several furnaces and an air compressor that require cooling water. This cooling water is non-contact/non-process water and is recycled to the maximum extent feasible for use as process water. The remaining non-contact/non-process water is discharged through Outfall 036. All process water is discharged to a scale pit that discharges to the USS C-Lot Lagoons for treatment and subsequently discharged through United States Steel Outfalls 028/030

In addition to the cooling water, steam condensate and intake strainer backwash water are discharged through Outfall 036. USS adds sodium hypochlorite to their intake water during Quagga and Zebra Mussel Season. ArcelorMittal Plate LLC - Gary Plate coordinates with USS and uses sodium bisulfite to neutralize the sodium hypochlorite when the intake water is chlorinated.

The incoming water supply runs through two (2) Kinney strainers. The backwash from these two strainers is discharged to Outfall 036. This water flows continuously. All other operations are intermittent, and the discharge volume is dependent upon equipment operation. The historical maximum estimated flow while USS fully operated the facility was 27 million gallons per day (MGD). A breakdown of the facility’s discharges is given in Table 1.

Table 1
Summary of Facility Discharges

Operations Contributing to Outfall 036 Flow	Maximum Historical Discharge MGD	Maximum Current Discharge MGD	Discharge Type
Kinney Strainers (2) Backwash	2.4	2.4	Continuous
South Heat Treating Furnaces Roll Cooling	2.9	2.9	Intermittent
North Heat Treating Furnaces Lintel Cooling	2.9	2.9	Intermittent
Joy Air Compressor Cooling	1.2	1.2	Intermittent
Steam Condensate	0.3	0.3	Intermittent
Total	**9.7**	**9.7**	**Maximum Estimated**

The 160”/210” Plate Mill operations are dependent upon market demand. ArcelorMittal Plate LLC – Gary Plate operations have never achieved United States Steel Corporation’s maximum estimated flow.

The average flow recorded during 2019 and reported on the attached application is 2 MGD. The rolling operations are permanently idled and are not expected to be restarted. The only operations expected to operate during the next permit cycle are the annealing furnaces, which require only non-contact cooling water.

1.2. Summary

ArcelorMittal Plate LLC - Gary Plate maintains Outfall 036. The historical maximum discharge at Outfall 036 is approximately 9.7 MGD of non-contact/non process water during full operations. The discharge flow over the last year is approximately 2 MGD. Only the non-contact/non-process water that is not used in the process systems is discharged through Outfall 036. The enclosed NPDES 2C Application is provided to renew Permit IN0062197 that expires on October 31, 2020.

2. Identification of Potentially Affected Person

I. Identification of Potentially Affected Persons

Please list here any and all persons whom you have reason to believe have a substantial or proprietary interest in this matter, or could otherwise be considered to be potentially affected under the law. Failure to notify any person who is later determined to be potentially affected could result in voiding our decision on procedural grounds. To ensure conformance with AOPA and to avoid reversal of a decision, please list all such parties. The letter attached to this form will further explain the requirements under the AOPA. Attach additional names and addresses on a separate sheet of paper, as needed. Please indicate below the type of action you are requesting.

Name: See Attached Sheet	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
Name:	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
Name:	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
Name:	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
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Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
Name:	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:
Name:	Name:
Street address:	Street address:
City/State/ZIP code:	City/State/ZIP code:

Identification of Potentially Affected Parties (State Form 49456 (R2 / 3-15)

65-42PS
Northern Indiana Public Service Co.
PO Box 117
Columbus, OH 43216-0117

65-42PS
Lake County Trust 6107 (12/8/86)
2200 N Main St
Crown Point, IN 46307

65-42PS
Michael C. Repay, Commissioner, 3rd District
Building 'A', 3rd Floor
2293 N. Main Street
Crown Point, IN 46307

65-42PS
Kyle W. Allen Sr., Commissioner, 1st District
Building 'A', 3rd Floor
2293 N. Main Street
Crown Point, IN 46307

65-42PS
Jerry Tippy, Commissioner, 2nd District
Building 'A', 3rd Floor
2293 N. Main Street
Crown Point, IN 46307

65-42PS
Praxair Inc.
39 Old Ridgebury Rd
Danbury, CT 06810

65-42PS
Shamrock Terminals, LLC
219 Virginia St
Gary, IN 46402

65-42PS
Jerome A. Prince, Mayor
City of Gary
401 Broadway, Suite 203
Gary, IN 46402

65-42PS
Janie Parrott
1828 W 2nd Ave
Gary, IN 46404

65-42PS
William Coward
1840 W 2nd Ave
Gary, IN 46404

65-42PS
Shirley Jean Hall
1900 W 2nd Ave
Gary, IN 46404

65-42PS
Shirley J. Reid
2930 W 2nd Ave
Gary, IN 46404

65-42PS
Indiana Industrial Investment
86 N Bridge St
Gary, IN 46404

65-42PS
Indiana Toll Road Commission
52551 Ash Rd
Granger, IN 46530

65-42PS
State of Indiana
402 W Washington Rm W 478
Indianapolis, IN 46204

65-42PS
Baltimore & Ohio Railroad Co.
500 Water St
Jacksonville, FL 32202

65-42PS
EJ&E West Company
2422 Gaylord St
Joliet, IL 60435

65-42PS
H.J. Investment Corp. LLP
4350 Baker Rd Ste 400
Minnetonka, MN 55343

65-42PS
Center Point Properties Trust
1808 Swift Dr.
Oakbrook, IL 60523

65-42PS
Penn. New York Central Trans Co.
CONRAIL 1338-6 Penn Center Plaza
Philadelphia, PA 19103

65-42PS
United States Steel Corporation
600 Grant St
Pittsburgh, PA 15219

II. Please complete this form by signing the following statement.

I certify to the best of my knowledge I have listed all potentially affected parties, as defined by IC 4-21.5.		
Signature: John J Battisti		
Printed name: John J. Battisti		Date: April 29, 2020
Facility name: ArcelorMittal Plate LLC - Gary Plate		
Facility address: One North Broadway Avenue		
Facility city: Gary	Facility state: IN	ZIP code: 46402

III. Type of Action (check one)

☑ NPDES Permit-327 IAC 5
☐ Pretreatment Permit -327 IAC 5
☐ Construction Permit-327 IAC 3

A $50.00 fee is required for a New permit, a Renewal or a Modification; if this is a renewal or modification request, include NPDES permit No. on check and return to:
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Cashiers Office – Mail Code 50-10C
100 North Senate Avenue
Indianapolis, IN 46204-2251

If No Fee Is Required (Fee has previously been paid), Return To:
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Quality – Mail Code 65-42
Room N1255
Permits Branch
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

3. Request for Information

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

REQUEST FOR INFORMATION

We request that you fill in the blanks on this form and return it along with your NPDES PERMIT application. The information provided will be helpful in our personal contact with officials of your municipality, industry or other facility in assuring prompt delivery of correspondence, etc. Thank you for your cooperation.

I. Current NPDES Permit Number IN0062197
(New applicants will be assigned a number later)

II. WASTEWATER TREATMENT FACILITY LOCATION ADDRESS

Name of Facility: Not Applicable
Address: _____
City: _____ State: _____ ZIP code: _____
Telephone: _____ E-mail: _____

III. DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS (ADDRESS WHERE IDEM IS TO SEND PRE-PRINTED DMRS)

Name: Morgan Swanson Title: Environmental Engineer
Address: 250 West U.S. Highway 12
City: Burns Harbor State: IN ZIP code: 46304
Telephone: 219 787 2646 E-mail: morgan.swanson@ArcelorMittal.com
Cognizant Official (Representative responsible for completing DMR):
Robert A. Maciel Title: Manager Environmental

IV. OWNER ADDRESS

Name of Owner: ArcelorMittal Plate LLC Title: _____
Address: 250 West U.S. Highway 12
City: Burns Harbor State: IN ZIP code: 46304
Telephone: _____ E-mail: _____

V. WASTEWATER TREATMENT PLANT OPERATOR/SUPERINTENDENT ADDRESS

Name of Operator: NA Certificate Number _____
Address: _____
City: _____ State: _____ ZIP code: _____
Telephone: Work: _____ E-mail: _____

4. Supplemental Data Information Request

SUPPLEMENTAL DATA INFORMATION REQUEST

If your facility has been reporting effluent data for non-conventional parameters (metals and other taxies) in your current permit, especially for a future reasonable potential determination, IDEM requests at a minimum, the most recent thirty-six (36) months of concentration data be submitted with the renewal application. (Specifically, for Mercury include the most recent sixty (60) months of concentration data.) This data should be submitted in a Microsoft Excel-type spreadsheet format on CD or as a paper copy and should include, for each parameter:

- the date the sample was taken,
- the concentration data value, and
- the concentration unit as required in the permit (ex. mg/1, ug/1, etc.).

(Regarding *less than* values, depict a "<" before the concentration data value if the data value is *less than* the limit of detection (ex.< 2 ug/1).) Individual concentration data values are requested; computation and submittal of averages is not necessary.

Regarding parameters having water quality based effluent limits in your current permit; this concentration data is not required to be submitted unless you request reconsideration of an effluent limitation. (For facilities in which a pollutant is present in the influent and the facility is meeting the water quality based effluent limit through treatment, a "no reasonable potential to exceed" based upon treated effluent data may not be sufficient to have the effluent limitation removed from the permit.)

Effluent Data for [Facility Name] WWTP

Date mid/year	[parameter name] [unit]	[parameter name]]tmit]	[parameter name] [unit]	Remarks

Not Applicable

5. Owner/Operator Affidavit

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OWNER/OPERATOR AFFIDAVIT TO DETERMINE THE APPROPRIATE NPDES PERMITTEE(S)

327 IAC 5-2-3(c) requires the operator to apply for and obtain the NPDES permit for the NPDES discharge, unless the operator is an employee of the owner of the facility (in which case it is the owner's responsibility to apply for and obtain the NPDES permit). This is consistent with the federal regulations at 40 CFR 122.21(b). Additionally, pursuant to 327 IAC 5-2-6(c), the permittee is required to notify the IDEM if there is a change in either the ownership or the operation of the wastewater treatment plant.

When an NPDES permittee contracts with a private firm to operate its wastewater treatment plant, and the contractual agreement is one in which the private entity is not an employee of the owner, the permit should be issued to the private firm. Some contractual arrangements may have been made without knowledge of this rule requirement, and the contract may not have been adequately set up to reflect the private firm as the sole permittee. Or the private contractor may not want to be the sole permittee. Therefore, in such instances EPA has suggested that the permit be issued to both the owner and to the private contractor, as co-permittees.

In order to help us to determine who should be listed on the NPDES permit as the permittee(s), please complete the following information:

1. Name of Facility: ArcelorMittal Plate LLC - Gary Plate

2. NPDES Permit Number: IN0062197

3. Name of Owner: ArcelorMittal Plate LLC
(individual or legal business name)

   Mailing Address of Owner: 250 West U.S. Highway 12, Burns Harbor IN 46304

4. Name of Operator: NA
(individual or legal business name)

   Mailing Address of Operator: NA

5. Is the operator an employee of the owner? ☐ YES ☐ NO Not Applicable

6. If the answer to #5 is "No", is the operator willing to be the sole permittee?

   ☐ YES ☐ NO ☐ N/A Not Applicable

7. If the answer to #6 is "No", the NPDES permit will be issued to both the owner and operator as co-permittees.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

John J Battista
(Signature of Owner)

Not Applicable
(Signature of Operator)

Please complete this form and return it to the IDEM, Office of Water Quality, Municipal NPDES Permits Section 100 North Senate Ave. Indianapolis, IN 46204

6. General Information Form

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL INFORMATION FORM

(TO BE SUBMITTED WITH FORMS 2C, 2D AND 2E)

(Replaces EPA General Form 1)

State Form 51952 (R / 4-12)

1. Name of Facility: ArcelorMittal Plate LLC - Gary Plate

2. Facility Contact

Name: Morgan Swanson

Address: 250 West U.S. Highway 12

City or Town: Burns Harbor State: IN ZIP Code: 46304

County: Porter

Telephone: Work: (219)787 2646 Email: morgan.swanson@ArcelorMittal.com

3. Certified Operator

Name: NA

Certification Number: _____ Classification: _____

Address: _____

City or Town: _____ State: _____ ZIP Code: _____

Telephone: Work: (____)_____-_____ Email: _____

4. Facility Mailing Address

Street or P.O. Box: One North Broadway Avenue

City or Town: Gary State: IN ZIP Code: 46402

5. Facility Location

Street, Route Number,County,Other Specific Identifier:
U.S. Steel Merchant Mill Gate (Truck Stop 468) One N. Buchanan Street, Gary, Indiana, Lake County

6. Type of Permit Action:

☐ New ☒ Renewal ☐ Modification

7. EPA Identification Number: INR000111179

8. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the state? (Form 2B)

☐ Yes ☒ No ☐ Form Attached

9. Is this a facility which currently results in discharges to waters of the state other than described in 8? (Form 2C-Process Wastewater or Form 2E-Nonprocess Wastewater)

☒ Yes ☐ No ☐ Form Attached

10. Is this a proposed facility (other than described in 8) which will result in a discharge to waters of the state? (Form 2D)

☐ Yes ☒ No ☐ Form Attached

11. SIC Codes ***(4-digit, in order of priority)***

First: 3398 Specify: Heat Treat Furnace
Second: ____ Specify: ____
Third: ____ Specify: ____
Fourth: ____ Specify: ____

12. Existing Environmental Permits ***(Identification number)***

NPDES (Discharges to Surface Waters): IN0062197

UIC (Underground Injection of Fluids): NA

RCRA (Hazardous Wastes): INR000111179

PSD (Air Emissions from Proposed Sources): T089-37356-00118

Other: ____ Specify: ____

Other: ____ Specify: ____

13. Nature of Business ***(Provide a Brief Description)***

Heat Treating of Steel Plates.

14. Map

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluid underground. Include all springs, rivers and other surface water bodies in the map area.

Topographic and surrounding 1mi

15. Signature Block:

This application must be signed by a person in responsible charge to be valid. This signature attests to the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

John J. Battisti	Chief Operating Officer
Printed Name	Title
John J Battisti	April 29, 2020
Signature	Date Signed *(month, day, year)*

Return Completed Application, Fee and Associated Materials to:
Indiana Department of Environmental Management
Cashiers Office – Mail Code 50-10C
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

7. Review Checklist

Indiana Department of Environmental Management

Industrial NPDES Permit Application Review Checklist
Form 2C

- ☐ If applicable, supplemental data (see Supplement Data Information Request form)
- ☑ Line drawing showing the flow of water into, through and out of the various processes that generate the wastewater.
- ☑ List of outfalls showing the outfall number, Lat./Long., and receiving stream.
- ☑ List of outfalls showing the outfall number, the operation(s) contributing flow to that outfall, the average flow from that outfall, a description of the treatment applied to the wastewater generated from that outfall with the corresponding code from Table 2c-1 of the application.

List of intermittent or seasonal discharges per outfall which includes:

- ☑ The outfall number
- ☑ A description of the process contributing the wastewater flow
- ☑ The frequency of the flow in days/week and months/year
- ☑ The flow rate long term average and daily maximum
- ☑ The total volume of flow long term average and daily maximum
- ☑ The duration of the discharge in days

- ☑ The production rate which is applicable to a process which is subject to an effluent guideline that is calculated based on the production rate.
- ☑ A listing of treatment facility improvements which are required by any federal, state or local authority. The improvements are described by: the condition or agreement to be achieved, the affected outfall(s), the source of the discharge by outfall, a brief description of the project, and the required and expected compliance dates.
- ☑ A list of the pollutant listed in Table 2C-3 of the application which the applicant knows or has reason to believe is discharged or may be discharged through an outfall. The applicants shall state why the pollutant to be present. (Most applicants don't provide this information)
- ☑ A list of pollutants listed in Item V-C which is used or manufactured as an intermediate or final product or byproduct. (Most applicants don't provide this information)
- ☑ A description of any biological toxicity tests which have been performed on any outfall or the receiving stream within the previous three years.
- ☑ The name, address, phone number and list of pollutants analyzed by a contract lab for the analytical results listed in Item V of the application.
- ☑ Name, title, phone number, email address, signature and date signed by a responsible corporate officer or other authorized person who is filing the application.

☑ The applicant must provide analytical results for all pollutants listed in Part A.

☑ The applicant must provide analytical results for all pollutants listed in Part B which they know or have reason to believe are present or for pollutants which are limited in an applicable effluent guideline.

☑ The applicant must follow the instructions for Part C on page V-3 to determine if they must provide analytical results for the pollutants listed in Part C.

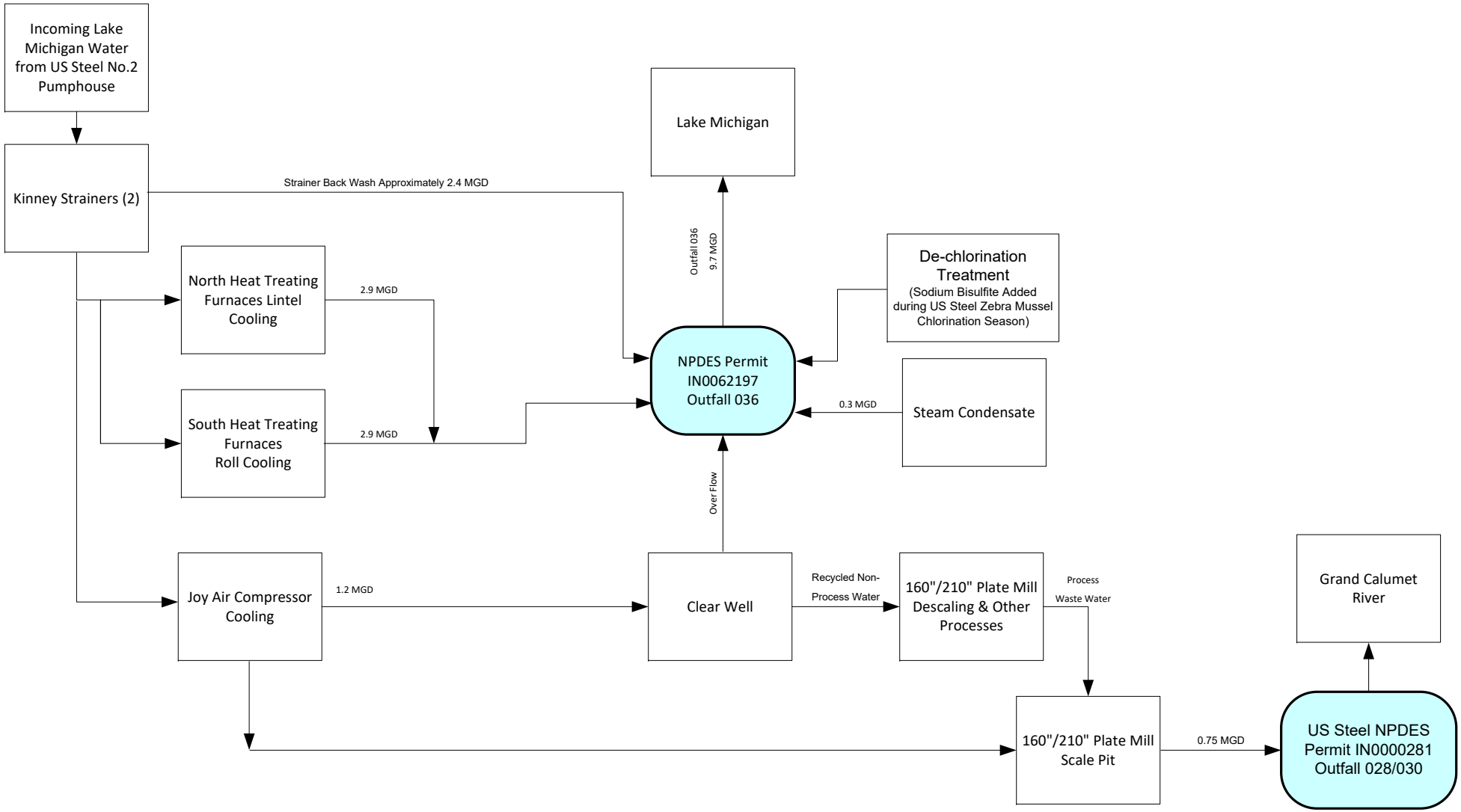
Intake and Effluent Characteristics which include the following information:

☑ Effluent analytical results for each pollutant describing the Maximum daily value, the maximum 30 day average, and the long term average including the number of analyses and the units of measure for concentration and mass.

☐ Influent analytical results for each pollutant describing the long term averages for concentration and mass along with the number of analyses. (This is most useful when the applicant is applying for NET limits)

8. Line Drawing

Water Flow Line Drawing
ArcelorMittal Plate LLC - Gary Plate
NPDES # IN0062197



9. NPDES Application 2C

APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL OPERATIONS

State Form 55637 (8-14)
(OWQ Industrial NPDES Application 2C)

EPA Identification Number *(copy from Item 1 of Form 1)*
INR000111179

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER *(name)*
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
036	41	37	32.2	87	20	9.6	Lake Michigan

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g. for certain mining activities) provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NUMBER	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION	b. AVERAGE FLOW *(Include units)*	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
036	Kinney Strainers Backwash South HT Fces Roll Cooling North HT Fces Lintel Cooling Joy Air Compressor Cooling	2.4 MGD 2.9 MGD 2.9 MGD 1.2 MGD	Dechlorination during Quagga & Zebra Mussel Season	2-E
036 Continued	Steam Condensate Storm Water Runoff	0.3 MGD 2.9 MGD	Dechlorination during Quagga & Zebra Mussel Season	2-E
OFFICAL USE ONLY *(effluent guidelines sub-categories)*				

EPA Identification Number *(copy from Item 1 of Form 1*
INR000111179

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ Yes (*complete the following table)* ☐ NO *(go to Section III)*

1. OUTFALL NUMBER	2. OPERATION(s) CONTRIBUTING FLOW	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK *(specify average)*	b. MONTHS PER YEAR *(specify average)*	a. FLOW RATE *(in mgd)*		b. TOTAL VOLUME *(specify with units)*		c. DURATION *(in days)*
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
036	Kinney Strainers	7	12	0.6	1.1	215 MG	397 MG	365
	North HT (Tempering & Hardening) Fces Lintel Cooling	6	12	0.4	0.6	129 MG	237 MG	365
	South HT (Tempering & Hardening) Fces Lintel Cooling	0	0	0	0	0	0	
	Joy Air Compressor	6	12	0.3	0.5	103 MG	190 MG	365
	Steam Condensate	0	0	0	0	0	0	

*Flow is intermittent.

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES *(complete Item III-B)* ☐ NO *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☑ YES *(complete Item III-C)* ☐ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guidelines, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS *(list outfall numbers)*
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	
132 tons/day	Tons	Heat Treated Steel Plate	United Steel (Gary Works) Outfalls 028/030 NPDES #IN0000281

IV. IMPROVEMENTS

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in the application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES *(complete the following table)* ☑ NO *(go to Section IV)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
NA	NA	NA	NA	NA	NA

B. Optional : You may attach additional sheets describing any additional water pollutant control programs *(or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA Identification Number *(copy from Item 1 of Form 1)*
INR000111179

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-10.

D. Use the space below to list any of the pollutants listed in Table 2C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA	NA	NA	NA

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES *(list all such pollutants below)* ☑ NO *(go to Item VI-B)*

EPA Identification Number *(copy from Item 1 of Form 1)*
INR000111179

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purpose below)* ☑ NO *(go to Section VIII)*

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analysis reported in Item V performed by a contract laboratory or consulting firm?

☑ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANT ANALYZED
Microbac Laboratories, Inc.	250 West 84th Drive Merrillville, IN 46410	(800) 536-8379	Oil & Grease
ALS Environmental	3352 128th Avenue Holland, MI 49424-9263	(616) 399-6070	Oil & Grease, Total Residual Chlorine, CBOD,COD, Ammonia, DO, E-coli, Fecal Coliform, Hardness, TDS, TOC, TSS

IX. CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

A. Name & Official Title *(type or print)*	B. Telephone Number *(area code)*
John J. Battisti	(219) 787 - 4056
C. Signature: John J Battisti	D. Date Signed *(month, day, year)*: April 29, 2020

EPA Identification Number (copy from Item 1 of Form 1)
INR000111179

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3) — OUTFALL NO. 036

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)			5. ANALYTICAL METHOD (list method used and detection limit achieved by lab.)	
	a. Maximum Daily Values		b. Maximum 30 Day Values (if available)		c. Long Term Average (if available)		d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value (if available)		b. No. of Analysis	a. Method	b. Detection Limit
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass			
a. Biochemical Oxygen Demand, Carbonaceous Cas No. E10106	<2.00	34.58	<2.00	34.58	<2.00	34.58	1	mg/L	lbs/day				A5210B-11	2.00
b. Escherichia coli (E-coli - units in count/100ml) Cas No. I-1000	10.8		10.8		10.8		1	MPN					SM 9223B	
Fecal coliform (units in count/100 ml) Cas No. I-1000	9		9		9		1	CFU					SM 9222D	
Chemical Oxygen Demand (COD) Cas No. E10107	<20	105	<20	105	<20	105	1	mg/L	lbs/day				E410.4 R2.0	20
Dissolved Oxygen (DO) Cas No. E-14539	11.3	195	11.3	195	11.3	195	1	mg/L	lbs/day				A4500-O G-11	
Total Dissolved Solids (TDS) Cas No. E-10173	110	1,902	110	1,902	110	1,902	1	mg/L	lbs/day				A2540 C-11	5.0
Total Organic Carbon (TOC) Cas No. E-10195	2.4	41.5	2.4	41.5	2.4	41.5	1	mg/L	lbs/day				E415.1	0.50
Total Suspended Solids (TSS) Cas No. E-10162	11.3	195.4	11.3	195.4	11.3	195.4	1	mg/L	lbs/day				A2540 D-11	2.00
Ammonia (as N) Cas No. 7664-41-7	0.0271	0.4685	0.0271	0.4685	0.0271	0.4685	1	mg NH3-N/L	lbs/day				E350.1 R2.0	0.0320
Flow	VALUE	6.0280	VALUE	2.8869	VALUE	1.9383	1,787	MGD	MGD	VALUE				
Temperature (Winter) (Cent.) Cas No. E-14540	VALUE	53.6	VALUE	53.6	VALUE	40.8	417	°F EC		VALUE				
Temperature (Summer) (Cent.) Cas No. E-14540	VALUE	80.8	VALUE	80.8	VALUE	69.6	460	°F EC		VALUE				
Hardness, Total (as (CaCO3) Cas No. E-11778	130	2,248	130	2,248	130	2,248	1	mg/L CaCO3	lbs/day				A2340 C-11	5.0
pH (S.U.) Cas No. E-10139	MINIMUM 6.4	MAXIMUM 8.7	MINIMUM 6.4	MAXIMUM 8.7			768	STANDARD UNITS						

EPA Identification Number *(copy from Item 1 of Form 1)*	Outfall Number
INR000111179	036

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. Pollutants for which you mark column 2-a , you must provide a minimum of twelve (12) samples (three (3) samples per month for a period of four (4) months). You must use, or require your contract laboratory to use, an analytical method with detection level low enough to provide a detectable value for the pollutant of concern. Please provide the method used and detection limit achieved by the laboratory. You must provide data or an explanation for the presence of the pollutant in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT	2. MARK (*X*)		3. EFFLUENT							4.UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection limit achieved by lab.)*	
	a. Be-lieved Pre-sent	b. Be-lieved Ab-sent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
Bromide Cas No. 7726-95-6		X														
Chloride Cas No. 1688-70-6		X														
Chlorine, Total Residual Cas No. 7782-50-5	X		< 0.02	< 0.7	0.00	0.00	0.00	0.00	780	mg/L	lbs/day					0.02
Color (C.U.) Cas No. E-11712		X														
Fluoride Cas No. 16984-48-8		X														
Nitrate/Nitrite (as N) Cas No. E-10128		X														
Nitrogen, Total Organic (as N) Cas No. 7727-37-9		X														
Oil & Grease Cas No. E-10140	X		5.0	79.9	<2.1	<34.47	<2.0	<4.1	768	mg/L	lbs/day				E1664A	5.0
Phosphorus, Total Cas No. 7723-14-0		X														
Radioactivity																
(1) Radioactivity: Alpha, Total (pCi/L) Cas No. 12587-46-1		X														
(2) Radioactivity: Beta, Total (pCi/L) Cas No. 12587-47-2		X														
(3) Radioactivity: Radium ,Total (pCi/L) Cas No. 13982-63-3		X														
(4) Radioactivity: Radium 226,Total (pCi/L) Cas No. 13982-63-3		X														
Sulfate (as SO4) Cas No. 14808-79-8		X														
Sulfide (as S) Cas No. 18496-25-8		X														
Sulfite (as SO3) Cas No. 14264-45-3		X														
Surfactants (MBAS) Cas No. 61-73-4		X														
Aluminum Cas No. 7429-90-5		X														
Barium Cas No. 7440-39-3		X														
Boron Cas No. 7440-42-8		X														
Cobalt Cas No. 7440-48-4		X														
Iron Cas No. 7439-89-6		X														
Magnesium Cas No. 7439-95-4		X														
Molybdenum Cas No. 7439-98-7		X														

EPA Identification Number *(copy from Item 1 of Form 1)* INR000111179																Outfall Number 036	
1. POLLUTANT	2. MARK *(X)*		3. EFFLUENT							4.UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection limit achieved by lab.)*	
	a. Be-lieved Pre-sent	b. Be-lieved Ab-sent	a. Maximum Daily Values		b. Maximum 30 Day Values *(if available)*		c. Long Term Average *(if available)*		d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value		b. No. of Analysis	a. Method	b. Detection Limit
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass			
Manganese Cas No. 7439-96-5		X														
Tin Cas No. 74400-31-5		X														
Titanium Cas No. 7440-32-6		X														
OTHER CONVENTIONAL																
Kjeldahl Nitrogen, Total Cas No. E-10264		X														
Nitrate Cas No. 14797-55-8		X														
Nitrite Cas No. 14797-65-0		X														

EPA Identification Number *(copy from Item 1 of Form 1)*
INR000111179

Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2C-2 in the instructions to determine which of the GC/MS fractions you must test for Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. Pollutants for which you mark column 2-a or 2-b, you must provide a minimum of twelve (12) samples (three (3) samples per month for a period of four (4) months). You must use, or require your contract laboratory to use, an analytical method with detection level low enough to provide a detectable value for the pollutant of concern. Please provide the method used and the detection limit achieved by the laboratory. You must provide data or an explanation for the presence of the pollutant in your discharge. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT							4.UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection limit achieved by lab.)*	
	a. Testing Required	b. Believed Present	c. Believed Absent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
METALS																	
Antimony Cas No. 7440-36-0			X														
Arsenic Cas No. 7440-38-2			X														
Beryllium Cas No. 7440-41-7			X														
Cadmium Cas No. 7440-43-9			X														
Chromium Cas No. 7440-47-3			X														
Chromium, Hex. (dissolved) Cas No. 18540-29-9			X														
Copper Cas No. 7440-50-8			X														
Lead Cas No. 7439-92-1			X														
Mercury Cas No. 7439-97-6			X														
Nickel Cas No. 7440-02-0			X														
Selenium Cas No. 7782-49-2			X														
Silver Cas No. 7440-22-4			X														
Thallium Cas No. 7440-28-0			X														
Vanadium Cas No. 7440-62-2			X														
Zinc Cas No. 7440-66-6			X														
CYANIDE																	
Cyanide, Free Cas No. 57-12-5			X														
Cyanide, Total Cas No. 57-12-5			X														
TOTAL PHENOLS																	
Phenols, Total (4AAP) Cas No. E-10253			X														
DIOXIN																	
2,3,7,8-Tetrachlorodibenzo-P-Dioxin Cas No. 1746-01-6			X														

EPA Identification Number *(copy from Item 1 of Form 1)*
INR000111179

Outfall Number
036

1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT							4. UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection limit achieved in lab.)*	
	a. Testing Required	b. Believed Present	c. Believed Absent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
OTHER																	
4-Methylphenol Cas No. 106-44-5			X														
Acetaldehyde Cas No. 75-07-0			X														
Bis(chloromethyl)ether Cas No. 542-88-1			X														
Dibutyl amine * Cas No. 111-92-2			X														
Dimethylpropyl phenol * Cas No. 80-46-6			X														
Formaldehyde Cas No. 5-00-0			X														
Tributyl tin oxide * Cas No. 56-35-9			X														
VOLATILE ORGANIC																	
1,1,2,2-Tetrachloroethane Cas No. 79-34-5			X														
1,1,2-Trichloroethane Cas No. 79-00-5			X														
l,l,l-Trichloroethane Cas No. 71-55-6			X														
1,1-Dichloroethane Cas No. 75-34-3			X														
1,1-Dichloroethene Cas No. 75-35-4			X														
1,2,4-Trimethylbenzene Cas No. 95-63-6			X														
1,2-Dichlorethane Cas No. 107-06-2			X														
1,2-Dichloroethene, Trans Cas No. 156-60-5			X														
1,2-Dichloropropane Cas No. 78-87-5			X														
1,3,5-Trimethylbenzene Cas No. 108-67-8			X														
1,3-Dichloropropane Cas No. 142-28-9			X														
1,3-Dichloropropene, Cis Cas No. 10061-01-5			X														
1,3-Dichloropropene, Trans Cas No. 10061-02-6			X														
1,3-Dichloropropylene Cas No. 542-75-6			X														
2-Butanone (Methyl Ethyl Ketone) Cas No. 78-93-3			X														
2-Chloroethyl vinyl ether Cas No. 110-75-8			X														
Acetone Cas No. 67-64-1			X														
Acrolein Cas No. 1070-20-8			X														
Acrylonitrile Cas No. 107-13-1			X														
Benzene Cas No. 71-43-2			X														
Bromoform Cas No. 75-25-2			X														

EPA Identification Number *(copy from Item 1 of Form 1)* INR000111179											Outfall Number 036						
1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT							4. UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection limit achieved in lab.)*	
	a. Test-ing Re-quir-ed	b. Be-lieved Pre-sent	c. Be-lieved Ab-sent	a. Maximum Daily Values		b. Maximum 30 Day Values *(if available)*		c. Long Term Average *(if available)*		d. No. of Analy-sis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)*		b. No. of Analy-sis	a. Method	b. Detection Limit
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass			
Carbon disulfide Cas No. 75-15-0			X														
Carbon Tetrachloride Cas No. 56-23-5			X														
Chlorobenzene Cas No. 108-90-7			X														
Chlorodibromomethane Cas No. 124-48-1			X														
Chloroethane Cas No. 75-00-3			X														
Dichlorobromomethane Cas No. 75-27-4			X														
Dichlorodifluoromethane Cas No. 75-71-8			X														
Ethylbenzene Cas No. 100-41-4			X														
Ethylene glycol Cas No. 107-21-1			X														
Methanol Cas No. 67-56-1			X														
Methyl Bromide (Bromomethane) Cas No. 74-83-9			X														
Methyl chloride (Chloromethane) Cas No. 74-87-3			X														
Methyl tert-butyl ether (MTBE) Cas No. 1634-04-4			X														
Methylamine * Cas No. 74-89-5			X														
Methylene chloride Cas No. 75-09-2			X														
Propylene glycol Cas No. 57-55-6			X														
Tetrachloroethene Cas No. 127-18-4			X														
Trichloroethene Cas No. 79-01-6			X														
Trichlorofluoromethane Cas No. 75-69-4			X														
Toluene Cas No. 108-88-3			X														
Vinyl chloride Cas No. 75-01-4			X														
Xylene Cas No. 1330-20-7			X														
SEMI-VOLATILE ORGANIC-ACID																	
2,4-Dichlorophenol Cas No. 120-83-2			X														
2,4-Dimethylphenol Cas No. 105-67-9			X														
2,4-Dinitrophenol Cas No. 51-28-5			X														
2,4.6-Trichlorophenol Cas No. 88-06-2			X														

EPA Identification Number *(copy from Item 1 of Form 1)* INR000111179												Outfall Number 036						
1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT								4.UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection Limit achieve in lab.)*	
	a. Testing Required	b. Believed Present	c. Believed Absent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
2-Chlorophenol Cas No. 95-57-8			X															
2-Nitrophenol Cas No. 88-75-5			X															
4-Nitrophenol Cas No. 100-02-7			X															
4,6-Dinitro-o-cresol (2-methyl-4,6-dinitrophenol) Cas No. 534-52-1			X															
Benzoic acid Cas No. 65-85-0			X															
p-Chloro-m-cresol (4-chloro-3-methylphenol) Cas No. 59-50-7			X															
Pentachlorophenol Cas No. 87-86-5			X															
Phenol Cas No. 108-95-2			X															
SEMI-VOLATILE ORGANIC-BASE																		
1,2,4-Trichlorobenzene Cas No. 120-82-1			X															
1,2-Dichlorobenzene Cas No. 95-50-1			X															
1,2-Diphenylhydrazine Cas No. 122-66-7			X															
1,3-Dichlorobenzene Cas No. 541-73-1			X															
1,4-Dichlorobenzene Cas No. 106-46-7			X															
2-Chloronaphthalene Cas No. 91-58-7			X															
2-Methylnaphthalene Cas No. 91-57-6			X															
2.4-Dinitrotoluene Cas No. 121-14-2			X															
2.6-Dinitrotoluene Cas No. 606-20-2			X															
3,3-Dichlorobenzidine Cas No. 91-94-1			X															
3,4-Benzofluoranthene (benzo(b)fluoranthene) Cas No. 205-99-2			X															
4-Bromophenyl phenyl ether Cas No. 101-55-3			X															
4-Chlorophenyl phenyl ether Cas No. 7005-72-3			X															
Acenaphthene Cas No. 83-32-9			X															
Acenaphthylene Cas No. 208-96-8			X															
Anthracene Cas No. 120-12-7			X															
Benzidine Cas No. 92-87-5			X															
Benzo(a)anthracene Cas No. 56-55-3			X															
Benzo(a)pyrene Cas No. 50-32-8			X															

EPA Identification Number *(copy from Item 1 of Form 1)* INR000111179												Outfall Number 036						
1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT								4.UNITS *(specify if blank)*		5. INTAKE *(optional)*			6. ANALYTICAL METHOD *(list method used and detection Limit achieved in lab.)*	
	a. Testing Required	b. Believed Present	c. Believed Absent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
Benzo(ghi)perylene Cas No. 191-24-2			X															
Benzo(k)fluoranthene Cas No. 207-06-9			X															
Bis(2-chloroethoxy)methane Cas No. 111-91-1			X															
Bis(2-chloroethyl) ether Cas No. 111-44-4			X															
Bis(2-chloroisopropyl) ether Cas No. 108-60-1			X															
Bis(2-ethylhexyl)phthalate Cas No. 117-81-7			X															
Butyl benzyl phthalate Cas No. 85-68-7			X															
Chrysene Cas No. 218-01-9			X															
Di-n-butyl phthalate Cas No. 84-74-2			X															
Di-n-octyl phthalate Cas No. 117-84-0			X															
Dibenzo(a,h)anthracene Cas No. 53-70-3			X															
Dibenzofuran Cas No. 132-64-9			X															
Diethylphthalate Cas No. 84-66-2			X															
Dimethylphthalate Cas No. 131-11-3			X															
Fluoranthene Cas No. 206-44-0			X															
Fluorene Cas No. 86-73-7			X															
Hexachlorobenzene Cas No. 118-74-1			X															
Hexachlorobutadiene Cas No. 87-68-3			X															
Hexachlorocyclopentadiene Cas No. 77-47-4			X															
Hexachloroethane Cas No. 67-72-1			X															
Indeno(1,2,3-cd) Pyrene Cas No. 193-39-5			X															
Isophorone Cas No. 78-59-1			X															
N-nitrosodi-n-propyl amine Cas No. 621-64-7			X															
N-nitrosodimethyl amine Cas No. 62-75-9			X															
N-nitrosodiphenyl amine Cas No. 86-30-6			X															
Naphthalene Cas No. 91-20-3			X															
Nitrobenzene Cas No. 98-95-3			X															
Phenanthrene Cas No. 85-01-8			X															
Pyrene Cas No. 129-00-0			X															

EPA Identification Number *(copy from Item 1 of Form 1)* INR000111179																	Outfall Number 036	
1. POLLUTANT	2. MARK *(X)*			3. EFFLUENT							4.UNITS *(specify if blank)*		5. INTAKE *(optional)*				6. ANALYTICAL METHOD *(list method used and detection Limit achieved in lab.)*	
	a. Testing Required	b. Believed Present	c. Believed Absent	a. Maximum Daily Values (1) Concentration	a. Maximum Daily Values (2) Mass	b. Maximum 30 Day Values *(if available)* (1) Concentration	b. Maximum 30 Day Values *(if available)* (2) Mass	c. Long Term Average *(if available)* (1) Concentration	c. Long Term Average *(if available)* (2) Mass	d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value *(if available)* (1) Concentration	a. Long Term Average Value *(if available)* (2) Mass	b. No. of Analysis	a. Method	b. Detection Limit
Styrene Cas No. 100-42-5			X														
PESTICIDES																	
2,4-Dichlorophenoxy Acetic Acid Cas No. 94-75-7			X														
Alachlor Cas No. 15972-60-8			X														
Aldrin Cas No. 309-00-2			X														
Atrazine Cas No. 1912-24-9			X														
BHC-Alpha Cas No. 319-84-6			X														
BHC-Beta Cas No. 319-85-7			X														
BHC-Gamma (Lindane) Cas No. 58-89-9			X														
BHC-Delta Cas No. 319-86-8			X														
Chlordane Cas No. 57-74-9			X														
DDD Cas No. 72-54-8			X														
DDE Cas No. 72-55-9			X														
DDT Cas No. 50-29-3			X														
Dieldrin Cas No. 60-57-1			X														
Endosulfan Sulfate Cas No. 1031-07-8			X														
Endosulfan, Alpha Cas No. 959-98-8			X														
Endosulfan, Beta Cas No. 33213-65-9			X														
Endrin Cas No. 72-20-8			X														
Endrin Aldehyde Cas No. 7421-93-4			X														
Heptachlor Cas No. 76-44-8			X														
Heptachlor Epoxide Cas No. 1024-57-3			X														
Methoxychlor Cas No. 72-43-5			X														
Metolachlor Cas No. 51218-45-2			X														
Mirex Cas No. 2385-85-5			X														
Parathion ethyl Cas No. 56-38-2			X														
Parathion methyl Cas No. 56-38-2			X														
Simazine Cas No. 122-34-9			X														

10. Technical Backup

- Discharge Monitoring Reports (DMR) Annual Summaries
  - January 2020
  - January to December 2019
  - January to December 2018
  - January to December 2017
  - January to December 2016
  - January to December 2015

- MSDS for Sodium Bisulfite

- MSDS for Chlorine Bleach

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
March 2015-January 2020	Long Term Average	1.9302		< 2.0	< 4.1		0.00	0.0
	Maximum Daily Value	6.0280	8.7	5.0	79.9		< 0.02	< 0.7
	Minimum Daily Value	0.0000	6.4	< 1.4	< 4.3		< 0.02	< 0.1
	Maximum 30 Day	2.8869		< 2.1	< 34.47		0.00	0.0
	# of analysis	1,787	768	768	768		780	780

March 2015-January 2020 Temp (Summer/Winter)	Long Term Average	Summer Temp (June, July, August)	69.6
	Maximum Daily Value		80.8
	# of analysis		460
	Long Term Average	Winter Temp (Jan, Feb, Dec)	40.8
	Maximum Daily Value		53.6
	# of analysis		417

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Jan-20	Frequency Monitored	31	14	14	14	31	0	0
	Monthly Average	2.1071		0	0			
	Maximum	6.0280	7.8	NQ 2.6	NQ 39.5	40.4		
	Minimum	1.8230	6.8	< 2.0	< 30.7	34.2		

2020 Summary	Long Term Average	2.1071		0.0	0.0			
	Maximum Daily Value	6.0280	7.8	2.6	39.5			
	Minimum Daily Value	1.8230	6.8	< 2.0	< 30.7			
	Maximum 30 Day	2.107		0.0	0.0			
	# of analysis	31	14	14	14			

2020 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	
	Maximum Daily Value		
	# of analysis		
	Long Term Average	Winter Temp (Jan, Feb, Dec)	37.3
	Maximum Daily Value		40.4
	# of analysis		31.0

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Jan-19	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.7396		0	0			
	Maximum	1.9600	8.0	< 2.0	< 32.7	43.1		
	Minimum	1.6630	7.2	< 2.0	< 27.7	35.8		
Feb-19	Frequency Monitored	28	12	12	12	28	0	0
	Monthly Average	1.7220		0	0	37.0001		
	Maximum	1.9450	8.1	NQ 3.3	45.9	40.2		
	Minimum	1.6210	7.7	< 2.0	< 27.0	33.5		
Mar-19	Frequency Monitored	30	13	13	13	31	0	0
	Monthly Average	1.9025		0	0			
	Maximum	2.2240	8.0	NQ 2.6	40.6	49.2		
	Minimum	1.8090	7.8	< 2.0	< 30.2	33.6		
Apr-19	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.8695		0	0	45.9		
	Maximum	2.6210	8.1	NQ 2.3	< 38.5	53.1		
	Minimum	1.7180	7	< 2.0	< 29.2	39.9		
May-19	Frequency Monitored	31	14	14	14	31	4	4
	Monthly Average	1.9103		0	0	54.3	0	0
	Maximum	2.6760	8.1	NQ 2.4	< 44.6	63.9	< 0.02	< 0.4
	Minimum	1.6930	7.7	< 2.0	< 28.2	49.5	< 0.02	< 0.3
Jun-19	Frequency Monitored	30	12	12	12	30	30	30
	Monthly Average	2.1283		0	0	62.0	0	0
	Maximum	2.6000	8.4	NQ 3.2	54.3	68.2	< 0.02	< 0.4
	Minimum	1.8860	7.5	< 2.0	< 32.5	59.7	< 0.02	< 0.3
Jul-19	Frequency Monitored	31	14	14	14	31	31	31
	Monthly Average	2.1159		0	0		0	0
	Maximum	2.3560	8.6	NQ 3.4	55.8	74.5	< 0.02	< 0.4
	Minimum	1.9610	7.6	< 2.0	< 33.0	65.5	< 0.02	< 0.3
Aug-19	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	2.1472		0	0		0	0
	Maximum	2.3220	8.3	NQ 3.0	57.3	77.6	< 0.02	< 0.4
	Minimum	1.9290	7.6	< 2.0	< 32.9	60.5	< 0.02	< 0.3
Sep-19	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	2.2266		0	0		0	0
	Maximum	3.2410	8.0	< 2.0	< 54.1	67.9	< 0.02	< 0.5
	Minimum	1.9510	7	< 2.0	< 32.5	58.9	< 0.02	< 0.3
Oct-19	Frequency Monitored	31	13	13	13	31	18	18
	Monthly Average	2.2226		0	0		0	0
	Maximum	3.6860	8.2	NQ 2.3	57.0	63.7	< 0.02	< 0.5
	Minimum	1.7140	7.2	< 2.0	< 28.6	50.8	< 0.02	< 0.4
Nov-19	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	2.0136		0	0			
	Maximum	2.5250	7.9	< 2.0	< 42.1	49.6		
	Minimum	0.3150	6.4	< 2.0	< 16.7	40.6		
Dec-19	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.9750		< 2.0	6.1			
	Maximum	2.8750	7.9	5.0	79.9	45.5		
	Minimum	1.8420	6.7	< 2.0	< 30.7	37.2		

2019 Summary	Long Term Average	1.9978		< 2.0	< 2.0		0.00	0.0
	Maximum Daily Value	3.6860	8.6	5.0	79.9		< 0.02	< 0.5
	Minimum Daily Value	0.3150	6.4	< 2.0	< 16.7		< 0.02	< 0.3
	Maximum 30 Day	2.227		< 2.0	6.1		0.00	0.0
	# of analysis	364	156	156	156		144	144

2019 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	67.7
	Maximum Daily Value		77.6
	# of analysis		92.0
	Long Term Average	Winter Temp (Jan, Feb, Dec)	39.2
	Maximum Daily Value		45.5
	# of analysis		90.0

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Jan-18	Frequency Monitored	31	14	14	14	31	0	0
	Monthly Average	1.6622		0	0			
	Maximum	3.8310	8.0	NQ 2.3	< 63.9	42.6		
	Minimum	1.3020	6.9	< 2.0	< 21.7	33.4		
Feb-18	Frequency Monitored	28	12	12	12	29	0	0
	Monthly Average	1.7724		0	0			
	Maximum	2.5320	8.0	NQ 2.8	NQ 40.9	52.3		
	Minimum	1.6020	7.4	< 2.0	< 26.7	33.0		
Mar-18	Frequency Monitored	30	13	13	13	31	0	0
	Monthly Average	1.7136		0	0			
	Maximum	2.1230	8.0	NQ 2.2	NQ 31.9	47.2		
	Minimum	1.2060	7.4	< 2.0	< 26.8	39.5		
Apr-18	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.7667		0	0	46.9		
	Maximum	2.4560	8.1	NQ 2.4	NQ 34.9	51.7		
	Minimum	1.3580	6.8	< 2.0	< 27.6	43.4		
May-18	Frequency Monitored	31	13	13	13	31	11	11
	Monthly Average	1.7938		0	0	57.9	0	0
	Maximum	2.1340	7.9	NQ 2.9	NQ 42.3	68.9	< 0.02	< 0.4
	Minimum	1.6460	7.2	< 2.0	< 27.5	48.5	< 0.02	< 0.3
Jun-18	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	1.9071		0	0	67.5	0	0
	Maximum	2.2000	8.3	NQ 2.4	NQ 40.7	71.5	< 0.02	< 0.4
	Minimum	1.8210	7.6	< 2.0	< 30.6	64.2	< 0.02	< 0.3
Jul-18	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	1.9052		0	0		0	0
	Maximum	2.0830	8.1	NQ 3.2	NQ 48.6	78.2	< 0.02	< 0.3
	Minimum	1.7640	7.8	< 2.0	< 29.4	66.6	< 0.02	< 0.3
Aug-18	Frequency Monitored	31	14	14	14	31	31	31
	Monthly Average	1.9373		0	0		0	0
	Maximum	2.3270	8.2	NQ 3.1	NQ 60.2	80.8	< 0.02	< 0.4
	Minimum	1.7500	6.5	< 2.0	< 29.9	73.2	< 0.02	< 0.3
Sep-18	Frequency Monitored	30	12	12	12	30	30	30
	Monthly Average	1.8858		0	0		0	0
	Maximum	2.2030	8.7	NQ 2.2	< 35.5	75.3	< 0.02	< 0.4
	Minimum	1.7490	7.3	< 2.0	< 29.5	68.3	< 0.02	< 0.3
Oct-18	Frequency Monitored	31	14	14	14	31	26	26
	Monthly Average	1.8983		0	0		0	0
	Maximum	2.4520	8.2	NQ 2.5	NQ 40.8	69.9	< 0.02	< 0.4
	Minimum	1.5610	7.6	< 2.0	< 26.0	55.7	< 0.02	< 0.3
Nov-18	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.5581		0	0			
	Maximum	1.7790	8.4	NQ 2.4	NQ 34.0	57.9		
	Minimum	1.1880	7.5	< 2.0	< 20.4	42.2		
Dec-18	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.8356		0.0	0.0			
	Maximum	2.1760	8.0	< 2.0	< 36.3	45.2		
	Minimum	1.6780	7.6	< 2.0	< 28.8	39.6		

2018	Long Term Average	1.8030		0.00	0.0		0.00	0.0
	Maximum Daily Value	3.8310	8.7	NQ 3.2	< 63.9		< 0.02	< 0.4
	Minimum Daily Value	1.1880	6.5	< 2.0	< 20.4		< 0.02	< 0.3
	Maximum 30 Day	1.937		0.0	0.0		0.00	0.0
	# of analysis	364	157	157	157		159	159

2018 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	72.4
	Maximum Daily Value		80.8
	# of analysis		92.0
	Long Term Average	Winter Temp (Jan, Feb, Dec)	41.0
	Maximum Daily Value		52.3
	# of analysis		91.0

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Jan-17	Frequency Monitored	28	12	12	12	28	0	0
	Monthly Average	1.5895		0	0			
	Maximum	2.0700	7.4	< 2.0	< 34.5	42.6		
	Minimum	0.0000	7.1	< 2.0	< 4.3	36.0		
Feb-17	Frequency Monitored	28	13	13	13	29	0	0
	Monthly Average	1.8335		0	0			
	Maximum	2.6510	7.5	< 2.0	< 36.6	53.6		
	Minimum	1.3930	6.8	< 2.0	< 23.2	36.6		
Mar-17	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	2.1936		0	0			
	Maximum	2.8270	7.3	< 2.0	< 47.2	48.8		
	Minimum	1.5560	6.8	< 2.0	< 27.5	32.0		
Apr-17	Frequency Monitored	30	12	12	12	30	0	0
	Monthly Average	2.5924		0	0	47.9		
	Maximum	3.1710	7.5	NQ 2.2	< 52.9	56.7		
	Minimum	2.3830	6.9	< 2.0	< 39.9	42.2		
May-17	Frequency Monitored	31	14	14	14	31	6	6
	Monthly Average	2.6022		0	0	53.7	0	0
	Maximum	3.0820	7.6	NQ 2.2	< 51.4	58.4	< 0.02	< 0.5
	Minimum	2.4020	7	< 2.0	< 40.7	50.6	< 0.02	< 0.5
Jun-17	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	2.8869		0	0	62.5	0	0
	Maximum	3.2540	7.6	NQ 2.2	< 54.3	66.7	< 0.02	< 0.5
	Minimum	2.7750	6.9	< 2.0	< 46.5	57.6	< 0.02	< 0.5
Jul-17	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	2.7027		0	0		0	0
	Maximum	3.2040	7.7	NQ 2.9	NQ 59.7	75.4	< 0.02	< 0.5
	Minimum	2.2540	6.9	< 2.0	< 37.6	64.6	< 0.02	< 0.4
Aug-17	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	2.8118		0	0		0	0
	Maximum	3.2380	8.2	NQ 3.2	NQ 77.6	78.5	< 0.02	< 0.5
	Minimum	2.6090	7.1	< 2.0	< 44.0	70.5	< 0.02	< 0.4
Sep-17	Frequency Monitored	30	13	13	13	31	31	31
	Monthly Average	2.7107		0	0		0	0
	Maximum	3.0540	7.5	NQ 3.0	NQ 67.1	73.6	< 0.02	< 0.5
	Minimum	2.5920	7	< 2.0	< 43.2	66.4	< 0.02	< 0.4
Oct-17	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	2.4813		0	0		0	0
	Maximum	4.0090	7.4	NQ 2.4	< 51.3	68.0	< 0.02	< 0.7
	Minimum	1.8020	7	< 2.0	< 30.6	53.9	< 0.02	< 0.3
Nov-17	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.7494		0	0			
	Maximum	3.2820	7.9	< 3.3	< 46.0	55.1		
	Minimum	1.6220	6.7	< 2.0	< 27.1	42.8		
Dec-17	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.6597		0.0	0.0			
	Maximum	2.0580	8.2	NC 2.3	NC 30.8	44.4		
	Minimum	1.5900	6.8	< 2.0	< 26.5	34.5		

2017	Long Term Average	2.3178		0.0	0.0		0.00	0.0
	Maximum Daily Value	4.0090	8.2	NQ 3.3	< 77.6		< 0.02	< 0.7
	Minimum Daily Value	0.0000	6.7	< 2.0	< 4.3		< 0.02	< 0.3
	Maximum 30 Day	2.887		0.0	0.0		0.00	0.0
	# of analysis	361	155	155	155		160	160

2017 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	68.9
	Maximum Daily Value		78.5
	# of analysis		92.0
	Long Term Average	Winter Temp (Jan, Feb, Dec)	41.3
	Maximum Daily Value		53.6
	# of analysis		88.0

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Jan-16	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	0.7177		0	0			
	Maximum	1.4617	8.1	< 2.0	< 22.6	42.3		
	Minimum	0.3527	7.4	< 2.0	< 6.6	33.4		
Feb-16	Frequency Monitored	29	13	13	13	29	0	0
	Monthly Average	0.9656		0	0			
	Maximum	3.1413	8.0	< 2.0	< 52.4	38.7		
	Minimum	0.6263	7.4	< 2.0	< 10.5	32.8		
Mar-16	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.7117		0	0			
	Maximum	2.4926	7.9	NQ 2.5	NQ 33.6	55.2		
	Minimum	1.4963	7.3	< 2.0	< 25.3	35.2		
Apr-16	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.7462		0	0			
	Maximum	4.6828	7.8	NQ 2.1	< 34.4	54.4		
	Minimum	1.4800	7.3	< 2.0	< 24.7	44.6		
May-16	Frequency Monitored	31	13	13	13	31	8	8
	Monthly Average	1.6482		0	0		0	0
	Maximum	1.9203	7.8	< 2.0	< 31.7	67.9	< 0.02	< 0.3
	Minimum	1.5239	7.2	< 2.0	< 25.8	52.4	< 0.02	< 0.3
Jun-16	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	1.7748		0	0		0	0
	Maximum	2.0643	7.6	< 2.0	< 34.4	73.8	< 0.02	< 0.3
	Minimum	1.5419	7.3	< 2.0	< 27.1	60.3	< 0.02	< 0.3
Jul-16	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	1.7194		0	0		0	0
	Maximum	2.0790	7.9	NQ 2.6	NQ 36.6	77.2	< 0.02	< 0.3
	Minimum	1.5970	7.3	< 2.0	< 27.0	71.9	< 0.02	< 0.3
Aug-16	Frequency Monitored	31	14	14	14	31	31	31
	Monthly Average	1.7082		0	0		0	0
	Maximum	2.2520	7.8	NQ 3.3	NQ 55.8	80.4	< 0.02	< 0.4
	Minimum	1.5900	7.2	< 2.0	< 26.5	69.9	< 0.02	< 0.3
Sep-16	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	1.7021		0	0		0	0
	Maximum	2.0240	8.0	< 2.0	< 30.4	77.1	< 0.02	< 0.3
	Minimum	1.6120	7.4	< 2.0	< 27.1	66.1	< 0.02	< 0.3
Oct-16	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	1.7123		0	0		0	0
	Maximum	2.1860	8.0	NQ 2.5	NQ 35.3	67.8	< 0.02	< 0.4
	Minimum	1.4940	7.3	< 2.0	< 25.4	59.0	< 0.02	< 0.2
Nov-16	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.6351		0	0			
	Maximum	1.9740	8.0	< 2.0	< 32.9	61.4		
	Minimum	1.5050	7.1	< 2.0	< 25.3	49.5		
Dec-16	Frequency Monitored	26	11	11	11	26	0	0
	Monthly Average	1.6060		0.0	0.0			
	Maximum	1.8030	7.7	< 2.0	< 30.1	49.9		
	Minimum	0.0000	7.2	< 2.0	< 25.5	37.8		

2016	Long Term Average	1.5539		0.0	0.0		0.00	0.0
	Maximum Daily Value	4.6828	8.1	NQ 3.3	NQ 55.8		< 0.02	< 0.4
	Minimum Daily Value	0.0000	7.1	< 2.0	< 6.6		< 0.02	< 0.2
	Maximum 30 Day	1.775		0.0	0.0		0.00	0.0
	# of analysis	361	155	155	155		161	161

2016 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	72.3
	Maximum Daily Value		80.4
	# of analysis		92.0
	Long Term Average	Winter Temp (Jan, Feb, Dec)	39.1
	Maximum Daily Value		49.9
	# of analysis		86.0

		FLOW	pH	OIL & GREASE		TEMP	RESIDUAL CHLORINE	
		MGD	s.u.	mg/l	#/day	°F	mg/l	#/day
Mar-15	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.9582		< 1.969	< 32.082			
	Maximum	2.0107	7.7	NQ 2.1	NQ 34.4	36.9		
	Minimum	1.9003	6.7	< 1.4	< 22.2	35.0		
Apr-15	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.2852		0	0			
	Maximum	2.2356	7.7	< 2.0	< 32.4	54.9		
	Minimum	0.8510	7.1	< 2.0	< 14.3	43.8		
May-15	Frequency Monitored	31	13	13	13	31	5	5
	Monthly Average	2.0933		< 2	< 34.469		0	0
	Maximum	2.8760	8.0	< 2.0	< 36.8	58.9	< 0.02	< 0.5
	Minimum	1.5253	7.3	< 2.0	< 31.7	50.6	< 0.02	< 0.4
Jun-15	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	1.7303		< 2	< 29.057		0	0
	Maximum	2.8512	8.0	< 2.0	< 47.6	69.8	< 0.02	< 0.5
	Minimum	0.8773	7.4	< 2.0	< 15.3	56.1	< 0.02	< 0.1
Jul-15	Frequency Monitored	31	14	14	14	31	31	31
	Monthly Average	1.8826		< 2.071	< 32.541		0	0
	Maximum	2.0885	8.0	< 2.5	< 40.8	73.8	< 0.02	< 0.3
	Minimum	1.7666	7.5	< 2.0	< 29.6	65.2	< 0.02	< 0.3
Aug-15	Frequency Monitored	31	13	13	13	31	31	31
	Monthly Average	1.9165		0	0		0	0
	Maximum	2.8775	8.1	< 2.0	< 38.0	74.9	< 0.02	< 0.5
	Minimum	1.0838	7.5	< 2.0	< 18.1	60.0	< 0.02	< 0.2
Sep-15	Frequency Monitored	30	13	13	13	30	30	30
	Monthly Average	1.9254		< 2.108	< 34.18		0	0
	Maximum	2.8267	8.1	< 2.8	< 54.2	70.9	< 0.02	< 0.5
	Minimum	1.5627	7.3	< 2.0	< 27.2	61.3	< 0.02	< 0.3
Oct-15	Frequency Monitored	31	13	13	13	31	29	29
	Monthly Average	1.7202		< 2.054	< 28.927		0	0
	Maximum	2.5080	7.9	< 2.4	< 34.2	65.8	< 0.02	< 0.3
	Minimum	1.2923	6.9	< 2.0	< 21.6	54.3	< 0.02	< 0.3
Nov-15	Frequency Monitored	30	13	13	13	30	0	0
	Monthly Average	1.9122		< 2.046	< 33.581			
	Maximum	2.4891	8.0	< 2.5	< 50.1	60.1		
	Minimum	0.8863	7.4	< 2.0	< 21.2	45.6		
Dec-15	Frequency Monitored	31	13	13	13	31	0	0
	Monthly Average	1.5938		0.0	0.0			
	Maximum	2.2463	7.9	< 2.0	< 37.5	51.0		
	Minimum	1.2700	7.5	< 2.0	< 23.3	42.5		

2015	Long Term Average	1.8018		< 1.4	< 22.5		0.00	0.0
	Maximum Daily Value	2.8775	8.1	NQ 2.8	NQ 54.2		< 0.02	< 0.5
	Minimum Daily Value	0.8510	6.7	< 1.4	< 14.3		< 0.02	< 0.1
	Maximum 30 Day	2.093		2.1	< 34.47		0.00	0.0
	# of analysis	306	131	131	131		156	156

2015 Temp (Summer/ Winter)	Long Term Average	Summer Temp (June, July, August)	66.6
	Maximum Daily Value		74.9
	# of analysis		92.0
	Long Term Average	Winter Temp (Jan, Feb, Dec)	46.8
	Maximum Daily Value		51.0
	# of analysis		31.0

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:	**ChemTreat BL-126**
Manufacturer's Name:	ChemTreat, Inc.
Emergency Telephone Number:	(800) 424-9300
Address (Corporate Headquarters)	4461 Cox Road, Glen Allen, VA 23060
Telephone Number for Information:	(800) 648-4579
Date of MSDS:	April 5, 2005

Section 2. Composition/Hazardous Ingredients

Component	**CAS Registry #**	**Wt. %**
Sodium bisulfite	7631-90-5	25 - 50

Section 3. Hazards Identification

Emergency Overview: Clear yellow liquid; strong sulfur dioxide odor; not flammable.
Potential Health Effects:
Eyes: Will cause corrosive effects (burns or irreversible damage) to eyes.
Skin: Will cause corrosive effects (burns or irreversible damage) to skin.
Inhalation: Will cause corrosive effects (burns or irreversible damage) to lungs, upper respiratory tract, and nose.
Ingestion: Will cause corrosive effects (burns or irreversible damage) to mouth, throat and digestive tract.
Chronic Effects/Carcinogenicity: This product does not contain greater than 0.1% of the known or potential carcinogens listed in IARC, NTP, or OSHA.

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get immediate medical attention.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Get immediate medical attention.
Skin: Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get immediate medical attention.

Ingestion: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Section 5. Fire Fighting Measures

Flammable Properties: Not flammable.
Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide or foam.
Fire & Explosion Hazards: None known.
Protective Equipment: If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH-approved, self-contained breathing apparatus.
Hazardous Combustion Products: Toxic vapors. Sulfur oxides. Sulfur dioxide gas will be released at a rate increasing with temperature.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Absorb on inert material, then shovel up and dispose of according to local, state, federal regulations.
Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hole in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Corrosive material. Keep away from heat and oxidizers. Relieve pressure in drums weekly. Store in a cool, well-ventilated area, out of direct sunlight. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Avoid breathing mists. Do not ingest. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For industrial use only.

Section 8. Exposure Controls/Personal Protection

Engineering Controls:
Local exhaust ventilation, process enclosures, or other engineering controls are imperative when handling or using this product. Maintain adequate ventilation. Avoid creating dust or mist. Keep levels below exposure limits.

Respiratory Protection:
Respiratory protection must be worn when handling this product if exposure limits are exceeded. All respiratory protection and respirator users must comply with OSHA 29 CFR 1910.134 requirements. Use NIOSH approved air purifying respirator with acid-gas cartridge or NIOSH

approved self-contained breathing apparatus. Some individuals may find vapors from this product noxious and desire to wear a respirator even if exposure limits have not been exceeded.

Maintain eyewash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance: Clear yellow	Physical state: Liquid
Boiling Point: ~ 219ºF	Solubility in Water: Complete
Evaporation Rate: N / D	Specific Gravity: ~1.33 @ 25C
Freezing Point: ~45ºF	Vapor Density: N / D
Melting Point: N / A	Vapor Pressure: -9@20C (SO2)
Molecular Weight: N / D	Viscosity: N / D
Odor: Strong sulfur dioxide	% VOCs: 0
pH: ~4.0	Flash Point: Not flammable

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.
Incompatibility: Avoid contact with strong oxidizers and acids.
Hazardous Decomposition Products: Sulfur dioxide gas, sodium sulfide, toxic vapors.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Sodium Bisulfite:
Oral LD50 = 2,000 mg / kg (rats)
TLV = 5 mg / m^3 TWA ACGIH
Note: Vacated 1989 OSHA PEL(s). Sulfur Dioxide gas may be released. The exposure limits for Sulfur Dioxide are: 5 ppm-TWA (OSHA); 2 ppm-TWA, 5 ppm-STEL (ACGIH) (Vacated 1989 OSHA PELs). Pregnant women and the fetus may be at an increased risk from exposure to this product.

Section 12. Ecological Information

Ceriodaphnia dubia: LC50 = 526 mg / L
Pimephales promelas: LC50 = 884 mg / L

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information (not meant to be all inclusive)

D.O.T. Shipping Name: Bisulfites, aqueous solutions, n.o.s.
Technical name: Sodium bisulfite

Hazard Class: 8 (Corrosive); UN2693; PG III

Section 15. Regulatory Information (Not meant to be all inclusive – selected regulation represented)

TSCA Status: All ingredients listed

CERCLA Reportable Quantity: 5,000 lbs.

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: None

CALIFORNIA PROPOSITION 65: None known.

Section 16. Other Information

HMIS Hazard Rating:

Health: 3 Flammability: 0 Physical Hazard: 1 PPE: X (see note)

Note: PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

SARA Hazard Categories – Section 311/312

Acute – Yes Chronic – No Fire – No Reactive – Yes Sudden Release – No

Prepared by: ChemTreat Regulatory Affairs

SAFETY DATA SHEET

1. Identification

Product identifier	**Sodium Hypochlorite Solution 5-17%**
Other means of identification	None.
Recommended use	Swimming pool chlorinator, hard surface cleaner, mildecide, Water treatment chemical, Biocides, bleach solutions and bleach fixer solutions
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Company name	KA Steel Chemicals, Inc
Address	1001 W. 31st Street Downers Grove, IL 60515
Telephone	630-257-3900
E-mail	http://www.kasteelchemicals.com/
Contact person	SDS Review Group
Emergency phone number	CHEMTREC (US) 1-800-424-9300 (Canada) 1-800-567-7455

2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information

Contact with acids liberates toxic gas.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	5-17
Sodium hydroxide	1310-73-2	0.3-5

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Sodium hypochlorite (CAS 7681-52-9)	STEL	2 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Not available.

Odor Pungent.

Odor threshold 0.9 mg/m³

pH 12 - 14 (25 °C/77 °F)

Melting point/freezing point	-4 °F (-20 °C) (7% solution)
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	12 mm Hg (20°C/68°F)
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Completely miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	Not applicable.
Molecular formula	NaOCl
Molecular weight	74.5 g/mol

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.
Incompatible materials	Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Vapors and spray mist may irritate throat and respiratory system and cause coughing.
Skin contact	Causes skin burns.
Eye contact	Causes eye burns.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Symptoms related to the physical, chemical and toxicological characteristics	Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Occupational exposure to the substance or mixture may cause adverse effects.

Product	Species	Test Results
Sodium Hypochlorite Solution 5-17% (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	3 - 5 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization This product is not expected to cause respiratory sensitization.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.

Chronic effects Prolonged or repeated overexposure causes lung damage.

Further information Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product		Species	Test Results
Sodium Hypochlorite Solution 5-17%			
Aquatic			
Crustacea	LC50	Daphnia	1 mg/l
Fish	LC50	Bluegill (Lepomis macrochirus)	0.6 mg/l, 48 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available for this product.

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1791
UN proper shipping name	Hypochlorite solutions
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, N34, T4, TP2, TP24
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241

IATA

UN number	UN1791
UN proper shipping name	Hypochlorite solution
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	Yes
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance: Sodium Hypochlorite, CAS # 7681-52-9, RQ = 100 lbs

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2)	LISTED
Sodium hypochlorite (CAS 7681-52-9)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)
Sodium hypochlorite (CAS 7681-52-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	29-April-2014
Revision date	10-June-2015
Version #	02
List of abbreviations	LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%. EC50: Effective concentration, 50%. TWA: Time weighted average.
References	EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.