

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PUBLIC NOTICE NO: 20260626 – IN0001155 – D
DATE OF NOTICE: June 26, 2026
DATE RESPONSE DUE: July 27, 2026

The Office of Water Quality proposes the following DRAFT NPDES PERMIT:

MAJOR – MODIFICATION:

Warrick Newco LLC, Permit No. IN0001155, WARRICK COUNTY, 4000 West State Road 66, Newburgh, IN. The facility operates as an aluminum manufacturing and processing facility. The permittee is requesting a revision of the description of Outfall 004 and Outfall 001S to include reverse osmosis reject water and replace mentions of potassium permanganate with sodium permanganate. IDEM agrees to this modification request. Permit Manager: Heidi Etter, 317/233-4903, hetter@idem.in.gov. Posted online at <https://www.in.gov/idem/public-notices/>.

PROCEDURES TO FILE A RESPONSE

You are hereby notified of the availability of a 30-day public comment period regarding the referenced draft permit, in accordance with 327 IAC 5-3-9. The application and draft permit documents are available for inspection at IDEM, Office of Water Quality, Indiana Government Center North - Room 1255, 100 N. Senate Ave, Indianapolis, IN 46204 from 9:00 a.m. until 4:00 p.m., Monday thru Friday, (copies 10¢ per page). The Draft Permit is posted online on the above-referenced IDEM public notice web page. A courtesy copy has also been sent via email to the local County Health Department. Please tell others whom you think would be interested in this matter. For more information about public participation including your rights & responsibilities, please see <https://www.in.gov/idem/public-notices/>. You may want to consult our online Citizens' Guide to IDEM: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

Comments: The proposed decision to issue a permit is tentative. Interested persons are invited to submit written comments on the draft permit. All comments must be delivered to IDEM or postmarked no later than the Response Due Date noted to be considered in the decision to issue a final permit. Deliver or mail all requests or comments to the attention of the Permit Manager at the above address.

To Request a Public Hearing: Any person may request a public hearing. A written request must be submitted to the above address on or before the Response Due Date. The written request shall include: the name and address of the person making the request, the interest of the person making the request, persons represented by the person making the request, the reason for the request and the issues proposed for consideration at the hearing. The Department will determine whether to hold a public hearing based upon the comments and the rationale for the request. Public Notice of such a hearing will be posted on IDEM's web site and will be transmitted to those persons submitting comments and/or on the mailing list at least 30 days prior to the hearing.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.in.gov

Mike Braun
Governor

Clint Woods
Commissioner

VIA ELECTRONIC MAIL

Vanessa Gaudreault, Operations Manager
Warrick Newco LLC
4400 W State Road 66
Newburgh, IN 47630

Dear Vanessa Gaudreault:

Re: NPDES Permit No. IN0001155
Draft Permit Modification
Warrick Newco LLC
Newburgh, IN – Warrick County

Your request for a permit modification has been reviewed and processed in accordance with rules adopted under 327 IAC 5. Enclosed is a copy of the draft permit modification.

Pursuant to IC 13-15-5-1, IDEM will publish the draft permit document online at <https://www.in.gov/idem/public-notices/>. Additional information on public participation can be found in the "Citizens' Guide to IDEM", available at <https://www.in.gov/idem/resources/citizens-guide-to-idem/>. A 30-day comment period is available to solicit input from interested parties, including the public.

Please review this draft permit modification and associated documents carefully to become familiar with the proposed terms and conditions. Comments concerning the draft permit modification should be submitted in accordance with the procedure outlined in the enclosed public notice form. We suggest that you meet with us to discuss major concerns or objections you may have with the draft permit modification.

Questions concerning this draft permit modification may be addressed to Heidi Etter of my staff, at 317/233-4903 or hetter@idem.in.gov.

Sincerely,

Richard Hamblin, Chief
Industrial NPDES Permits Section
Office of Water Quality

Enclosures

cc: Warrick County Health Department
Brandie Rucker, Environmental Manager, Alcoa
Natalie Hoetmer, Waste Program Manager, Alcoa
Holly Zurcher, Inspector, IDEM
Jeremy Ferguson, Inspector, IDEM
Chief, Permits Section, U.S. EPA, Region 5
Stacey Cochran (stacey@orsanco.org)



STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AMENDED 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 permitting authority under IC 13-15,

WARRICK NEWCO LLC

is authorized to discharge from an aluminum processing plant and steam generating facility located at 4000 West State Road 66, Newburgh, Indiana to receiving waters identified as the Ohio River and unnamed tributaries to Cypress Creek in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III and IV hereof.

The permit, as issued on February 27, 2026 is hereby amended, as contained herein. The amended provisions shall become effective _____. All terms and conditions of the permit not modified at this time remain in effect. Further, any existing condition or term affected by the amendments will remain in effect until the amended provisions become effective. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

This permit and the authorization to discharge, as amended, shall expire at midnight March 31, 2026. 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 _____ for the Indiana Department of Environmental Management.

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

Table 2

Parameter	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
	Monthly Average	Daily Maximum	Units	Monthly Average	Daily Maximum	Units	Measurement Frequency	Sample Type
Antimony [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Arsenic [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Barium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Beryllium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Boron [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Calcium	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Cadmium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Chloride	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Chromium (VI) [9]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Chromium, Total [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Cobalt [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Lead [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Lithium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Molybdenum [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Radium 226 & 228 combined	----	----	-----	Report	Report	pCi/L	1 X Monthly	24-Hr. Comp.
Selenium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Sulfate	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Thallium [5]	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.
Total Dissolved Solids (TDS)	----	----	-----	Report	Report	mg/l	1 X Monthly	24-Hr. Comp.

Table 3

Parameter	Quality or Concentration				Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Units	Measurement Frequency	Sample Type
pH [4]	6.0	----	9.0	s.u.	2 X Weekly	Grab

- [1] In the event that changes are to be made in the use of water treatment additives, including dosage, or a new water treatment additive is to be used that will contribute to internal Outfall 103, 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>.
- [2] The Storm Water Monitoring and Non-Numeric Effluent Limits and the Storm Water Pollution Prevention Plan (SWPPP) requirements can be found in Part I.D. and I.E. of this permit.

- (3) The following EPA test methods and/or Standard 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.

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

Case-Specific LOD/LOQ: The permittee may determine a case-specific LOD or LOQ using the analytical method specified above, or any other test method which is approved by the Commissioner prior to use. The LOD shall be derived by the procedure specified for method detection limits contained in 40 CFR Part 136, Appendix B, and the LOQ shall be set equal to 3.18 times the LOD. Other methods may be used if first approved by the Commissioner.

- [7] The data collected for these parameters (along with the data collected at internal Outfall 303) are used in the calculations used to determine compliance with requirements at Outfall 003.
- [8] The permittee must continue to submit annual ash pond seep inspection reports as required by the Office of Land Quality (OLQ). These reports are to be made available to the Office of Water Quality (OWQ) upon request. The permittee must notify this Office of any changes related to the status of new or existing seeps and describe any action(s) being taken to address them.
- [9] Hexavalent chromium shall be measured and reported as dissolved metal. The hexavalent chromium sample type shall be by grab method. The maximum holding time for a hexavalent chromium sample is 28 days under 40 CFR 136.3(e), Table II. However, as noted in footnote 20 of Table II, to achieve the 28-day holding time, the ammonium sulfate buffer solution specified in EPA Method 218.6 must be used. This holding time allowance of 28-days supersedes the preservation and holding time requirements in the approved hexavalent chromium methods, unless this supersession would compromise the measurement, in which case the preservation and holding time requirements [the sample must be analyzed within 24 hours of collection] in the method must be followed.

11. 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 004**, located at Latitude 37° 54' 52", Longitude -87° 20' 7".

The discharge is limited to a combination of contact and non-contact cooling water from the steam electric power plant operations; oily water decant pit discharge; wastewater from ash trench drains; the discharge from internal Outfall 703; boiler blowdown; wastewater from equipment associated with the selective catalytic reductant (SCR) and selective noncatalytic reductant (SNCR) systems, mainly comprised of potable water and insignificant ammonia and/or urea; insignificant quantities of gypsum and limestone from the offloading, processing, and removal of these materials from the FGD scrubber or ancillary equipment; compatible wastewaters from maintenance activities of the FGD scrubber system; wastewaters and blowdown from the scrubber and dry fly ash handling system including the silo and pug mill; emergency overflow of the scrubber system; wastewater from the coal handling area; wastewater from the regeneration of the resin beds in the demineralizing water system; potable water plant filter backwash; reverse osmosis reject water, wastewater associated with the maintenance washdown activities within the potable water plant and deep water wells (may contain insignificant amount of sodium permanganate (NaNO₄)); wastewater from the steam and high temperature water systems; non-contact HVAC condensate; vehicle wash water (which may contain insignificant amounts of biodegradable, phosphate-free, detergents); miscellaneous compatible wastewaters from associated shops and support services; and stormwater runoff from the power plant operations.

Samples taken in compliance with the monitoring requirements below shall be taken at a point representative of the discharge but prior to entry into the Ohio River. Such discharge shall be limited and monitored by the permittee as specified below:

Outfall 004
DISCHARGE LIMITATIONS [1][2][3][4]
Table 1

Parameter	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
	Monthly Average	Daily Maximum	Units	Monthly Average	Daily Maximum	Units	Measurement Frequency [15]	Sample Type
Flow [5]	Report	Report	MGD	----	----	----	Daily	24 Hr. Total
Oil & Grease [7]	----	----	----	Report	Report	mg/l	2 X Quarterly [8]	Grab
Total Suspended Solids	----	----	----	Report	Report	mg/l	2 X Quarterly [8]	Grab
Bromide	Report	Report	lbs/day	Report	Report	mg/l	2 X Quarterly [8]	Grab
Copper [10]	Report	Report	lbs/day	0.036	0.057	mg/l	2 X Quarterly [8]	Grab
Free Cyanide [11][12]	Report	Report	lbs/day	0.030	0.044	mg/l	2 X Quarterly [8]	Grab
Iron [10]	Report	Report	lbs/day	3.8	5.5	mg/l	2 X Quarterly [8]	Grab
Mercury [7][10][11]	Report	Report	lbs/day	12	20	ng/l	2 X Quarterly [8]	Grab
Zinc [10]	Report	Report	lbs/day	0.61	0.96	mg/l	2 X Quarterly [8]	Grab

Table 1 continued

Parameter	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
	Monthly Average	Daily Maximum	Units	Monthly Average	Daily Maximum	Units	Measurement Frequency [15]	Sample Type
Barium [10][13]	----	----	----	Report	Report	mg/l	2 X Monthly [14]	Grab
Boron	----	----	----	Report	Report	mg/l	2 X Monthly [14]	Grab
Chloride	----	----	----	Report	Report	mg/l	2 X Monthly [14]	Grab

Table 2

Parameter	Monthly Total	Units	Daily Total	Units	Monitoring Requirements	
					Measurement Frequency	Sample Type
Discharge Duration [6]	Report	Hours/month	Report	Minutes/day	Daily	24-Hr Total

Table 3

Parameter	Quality or Concentration				Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Units	Measurement Frequency	Sample Type
pH [9]	6.0	----	9.0	s.u.	2 X Quarterly [8]	Grab

- [1] See Part I.B. of the permit for the Narrative Water Quality Limitations.
- [2] In the event that changes are to be made in the use of water treatment additives, including dosage, or a new water treatment additive is to be used that will contribute to Outfall 004, 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>.
- [3] The permittee shall post a permanent marker on the stream bank at each outfall discharging directly to the Ohio River. The marker shall consist at a minimum, the name of the permittee, the permit number, and the outfall number. The information shall be printed in letters not less than two inches in height. The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above the ground.
- [4] The Storm Water Monitoring and Non-Numeric Effluent Limits and the Storm Water Pollution Prevention Plan (SWPPP) requirements can be found in Part I.D. and I.E. of this permit.
- [5] Measure flow when outfall is discharging.

- [6] On the MMR, the permittee must report the number of minutes the outfall has discharged each day and the total number of hours the outfall discharged during the month. On the DMR, the permittee must report the total number of hours the outfall discharged during the month. In addition, the permittee must specify the reason(s) that the discharge occurred (such as X inches of precipitation in Y hours or pump failure).
- [7] The permittee may use an automatic sampler to collect the oil and grease and mercury grab samples.
- [8] Samples shall be taken two times at any time during each of the four annual quarters:
- (A) January-February-March;
 - (B) April-May-June;
 - (C) July-August-September; and
 - (D) October-November-December.

For the two times quarterly monitoring, in the first quarter for example, the permittee may take these two samples on any two days within the months of January, February and/or March. The result from this reporting timeframe shall be reported on the March DMR, regardless of which of the months within the quarter the samples were taken. The samples must be reported on the MMR in the month in which each sample is taken.

If the outfall discharges less than two times during the quarter, then the permittee is only required to take samples when a discharge occurs. Thus, if the outfall only discharges once during a quarter, the permittee is only required to take samples once during the quarter and report "no discharge" in place of the second sample.

- [9] If the permittee collects more than one grab sample during a discharge event 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.
- [10] The permittee shall measure and report identified metals as total recoverable metals.
- [11] 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
Mercury	1631E	0.2 ng/l	0.5 ng/l
Cyanide, Total	335.4, Rev. 1.0 (1993) or 4500-CN- E-1999	5 µg/l	16 µg/l
Cyanide, Total	Kelada-01	0.5 µg/l	1.6 µg/l
Cyanide, Available**	4500-CN-G-1999	5 µg/l	16 µg/l
Cyanide, Available**	OIA-1677-09 (available)	0.5 µg/l	1.6 µg/l
Cyanide, Available**	Kelada-01 (available)	0.5 µg/l	1.6 µg/l

- [12] Sample preservation procedures and maximum allowable holding times for total cyanide, or available (free) cyanide, are prescribed in Table II of 40 CFR Part 136. Note the footnotes specific to cyanide. Preservation and holding time information in Table II takes precedence over information in specific methods or elsewhere.
- [13] 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.

<u>Parameter</u>	<u>Test Method</u>	<u>LOD</u>	<u>LOQ</u>
Barium	200.8 Rev. 5.4 (1994)	4.9 µg/l	15.6 µg/l
Barium	200.7 Rev. 4.4 (1994)	25 µg/l	50 µg/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 shall be derived by the procedure specified for method detection limits contained in 40 CFR Part 136, Appendix B, and the LOQ shall be set equal to 3.18 times the LOD. Other methods may be used if first approved by the Commissioner.

- [14] If the outfall discharges less than two times during the month, then the permittee is only required to take samples when a discharge occurs. Thus, if the outfall only discharges once during a month, the permittee is only required to take samples once during the month and report "no discharge" in place of the second sample.
- [15] Since the discharges which occur at this outfall may be too short in duration to collect sufficient samples to analyze for all of the listed parameters, the permittee shall prioritize its sample collection in the following order: mercury, copper, zinc, iron, free cyanide, chloride, boron, barium, TSS, oil and grease, and bromide. If insufficient sample is collected to analyze for one or more of the parameters, the permittee shall use a code of F (insufficient flow) for each such parameter. The use of this code is limited to Outfalls 001, 004 and 005 and it is expected that the use of this code will be infrequent. In addition, this code cannot be used if the failure to fill all of the bottles is due to a sampling equipment malfunction or human error.

13. The permittee is authorized to discharge from **Outfall 001S**, located at Latitude 37°54' 46", Longitude 87°19' 56" in accordance with the terms and conditions of this permit. This outfall is located in the same physical location as Outfall 001 and is intended to be representative of the portion of flow not captured by the Outfall 001 lift station sump. During non-stormwater conditions, this outfall does not discharge and water is pumped to a series of sump pumps and ultimately to the ash pond system which discharges from internal Outfall 103. During light rain events, discharge at this outfall is limited to raw potable water from the potable water treatment plant, reverse osmosis reject water, partially-treated water from the potable water treatment plant (groundwater that has been treated with sodium permanganate), and stormwater runoff from the power plant operations. Samples taken in compliance with the monitoring requirements below shall be taken at a point representative of the discharge but prior to entry into the Ohio River. Such discharge shall be limited and monitored by the permittee as specified below:

Outfall 001S
DISCHARGE LIMITATIONS [1][2][3][4][5]

<u>Parameter</u>	<u>Daily Maximum</u>	<u>Units</u>	<u>Monitoring Requirements</u>	
			<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow [8]	Report	MGD	1 X Quarterly [6]	Estimate Total
pH [7]	Report	s.u.	1 X Annually	Grab
Oil & Grease	Report	mg/l	1 X Annually	Grab
Total Suspended Solids	Report	mg/l	1 X Quarterly [6]	Grab
CBOD ₅	Report	mg/l	1 X Annually	Grab
COD	Report	mg/l	1 X Annually	Grab
Aluminum [9]	Report	mg/l	1 X Quarterly [6]	Grab
Iron [9]	Report	mg/l	1 X Quarterly [6]	Grab
Total Kjeldahl Nitrogen	Report	mg/l	1 X Annually	Grab
Nitrate/nitrite (as N)	Report	mg/l	1 X Annually	Grab
Total Phosphorous	Report	mg/l	1 X Annually	Grab
Barium [9][10]	Report	mg/l	1 X Quarterly [6]	Grab
Boron	Report	mg/l	1 X Quarterly [6]	Grab
Chloride	Report	mg/l	1 X Quarterly [6]	Grab

- [1] See Part I.B. of the permit for the Narrative Water Quality Limitations.
- [2] In the event that changes are to be made in the use of water treatment additives, including dosage, or a new water treatment additive is to be used that will contribute to Outfall 001S, 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>.

- [3] The permittee shall post a permanent marker on the stream bank at each outfall discharging directly to the Ohio River. The marker shall consist at a minimum, the name of the permittee, the permit number, and the outfall number. The information shall be printed in letters not less than two inches in height. The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above the ground.
- [4] The Storm Water Monitoring and Non-Numeric Effluent Limits and the Storm Water Pollution Prevention Plan (SWPPP) requirements can be found in Part I.D. and I.E. of this permit.
- [5] All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches and at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. There shall be a minimum of three (3) months between reported sampling events for the parameters that are reported on an annual basis.

For each sample taken, the permittee shall record the duration and total rainfall of the storm event, the number of hours between beginning of the storm measured and the end of the previous measurable rain event, and the outside temperature at the time of sampling.

A grab sample shall be taken during the first thirty (30) minutes of the discharge (or as soon thereafter as practicable).

- [6] Samples shall be taken once at any time during each of the four annual quarters:
 - (A) January-February-March;
 - (B) April-May-June;
 - (C) July-August-September; and
 - (D) October-November-December.

For quarterly monitoring, in the first quarter for example, the permittee may conduct sampling within the month of January, February or March. The result from this reporting timeframe shall be reported on the March DMR, regardless of which of the months within the quarter the sample was taken.

- [7] 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.
- [8] During periods of flooding of the Ohio River, flow is unable to be estimated and is therefore not required to be reported. The permittee shall use a code of 9 (conditional monitoring – not required this period) for each such instance. The use of this code is limited to Outfall 001S, and it is expected that the use of this code will be infrequent.

- [9] The permittee shall measure and report identified metals as total recoverable metals.
- [10] 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.

<u>Parameter</u>	<u>Test Method</u>	<u>LOD</u>	<u>LOQ</u>
Barium	200.8 Rev. 5.4 (1994)	4.9 µg/l	15.6 µg/l
Barium	200.7 Rev. 4.4 (1994)	25 µg/l	50 µg/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 shall be derived by the procedure specified for method detection limits contained in 40 CFR Part 136, Appendix B, and the LOQ shall be set equal to 3.18 times the LOD. Other methods may be used if first approved by the Commissioner.



**National Pollutant Discharge Elimination System
Fact Sheet for
Warrick Newco LLC
Draft modification: June 2026
Final modification: TBD**

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:	Warrick Newco LLC P.O. Box 10 Newburgh, Indiana 47629
Existing Permit Information:	Permit Number: IN0001155 Expiration Date: March 31, 2031
Facility Contact:	Brandie Rucker, Environmental Manager (812) 853-4241, brandie.rucker@alcoa.com
Facility Location:	4000 West State Road 66 Newburgh, Indiana Warrick County
Receiving Stream:	The Ohio River and unnamed tributaries to Cypress Creek
GLI/Non-GLI:	Non-GLI
Proposed Permit Action:	Modify
Date Application Received:	May 6, 2026
Source Category	NPDES Major – Industrial
Permit Writer:	Heidi Etter (317) 233-4903, hetter@idem.in.gov

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1.0 INTRODUCTION

The Indiana Department of Environmental Management (IDEM) received a request from Warrick Newco LLC on May 6, 2026 to modify National Pollutant Discharge Elimination System (NPDES) Permit IN0001155. The current five-year permit was issued with an effective date of April 1, 2026 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) Sections 124.8 and 124.56, as well as Title 327 of the Indiana Administrative Code (IAC) Article 5-3-8, a Fact Sheet is required for certain NPDES permits. This document fulfills the requirements established in these regulations. This Fact Sheet was prepared in order to document the factors considered in the development of NPDES Permit effluent limitations. The technical basis for the Fact Sheet 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 Fact Sheet where necessary. This Fact Sheet also identifies the modified pages of the permit as issued on February 27, 2026.

2.0 FACILITY DESCRIPTION

2.1 General

Warrick Newco LLC and its associated power generation facility (Alcoa Power Generating Inc.) are classified under the Standard Industrial Classification (SIC) and North American Industry Classification System (NAICS) Codes in the table below:

Applicable SIC/NAICS Codes	
SIC 3334 Primary Aluminum Production	NAICS 331313 Alumina Refining & Primary Aluminum Production
SIC 3353 Aluminum Sheet, Plate, and Foil	NAICS 331315 Aluminum Sheet, Plate, and Foil Manufacturing
SIC 4911 Electric Services	NAICS 221112 Electric power generation, fossil fuel

The Alcoa Warrick facility includes an integrated aluminum manufacturing plant owned and operated by Warrick Newco LLC and an adjacent coal-fired steam electric power plant which is owned and operated by Alcoa Power Generating Inc. Both companies are subsidiaries of Alcoa Corporation. Alcoa Power Generating Inc. owns and operates the wastewater treatment facilities associated with the power plant. Warrick Newco LLC and Alcoa Power Generating Inc. are managed as one facility, Alcoa Warrick Operations.

Warrick Newco LLC operates a primary aluminum manufacturing and processing facility. Warrick Newco LLC leases land to Kaiser Aluminum to own and operate a global packaging division that produces aluminum sheet for beverage and food can ends, tabs, and other flat rolled aluminum products, including lithographic sheet.

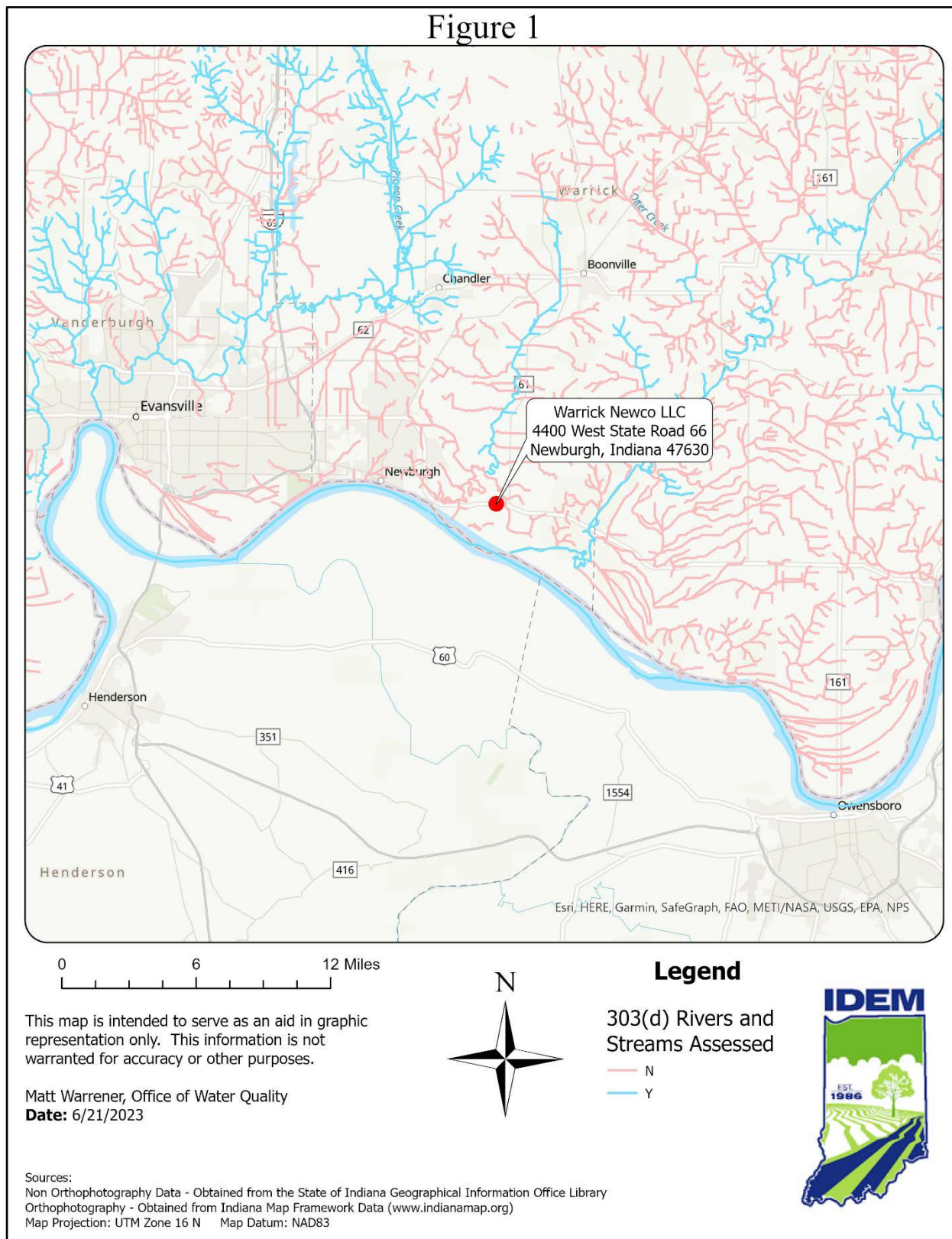
At the Warrick Newco aluminum smelter, alumina is converted to aluminum through the process of electrolytic reduction within the smelting pots. Kaiser Aluminum melts aluminum in furnaces where it is cast into 40 foot long ingots. Once the ingot is cast, it is “hot rolled” and then “cold rolled” in the rolling mills to final gauge thickness and rolled into coils. These coils are then cleaned and prepped and may have a coating applied depending on customer needs. Finished coils from the finishing area are then shipped to the customer.

The adjacent coal-fired generating facility owned and operated by Alcoa Power Generating Inc. (APGI) generates all of the power used at the Warrick Newco LLC smelter. The power plant is composed of four (4) pulverized coal-fired units. APGI wholly owns each of the four generating stations, which were placed into service in the early 1960s. Previously, Unit 4 (the largest unit), was jointly owned by APGI and Southern Indiana Gas and Electric Company (SIGECO) d/b/a Vectren Energy Delivery of Indiana, Inc., a utility company. However, in 2024, SIGECO divested from the facility and sold complete ownership back to APGI. The total capacity of the power plant is 822.8 MW.

The Alcoa Warrick facility includes more than 120 acres of buildings and 9,000 acres of neighboring lands. The source water for the facility consists of six on-site groundwater wells and the Ohio River.

Four aerial maps have been provided below which illustrate the facility location (Figure 1), site layout (Figure 2), outfall locations (Figure 3), stormwater flow (Figure 4), and stormwater drainage areas (Figure 5).

Figure 1: Facility Location



4400 State Road 66
Newburgh, IN – Warrick County

Figure 2: Site Layout

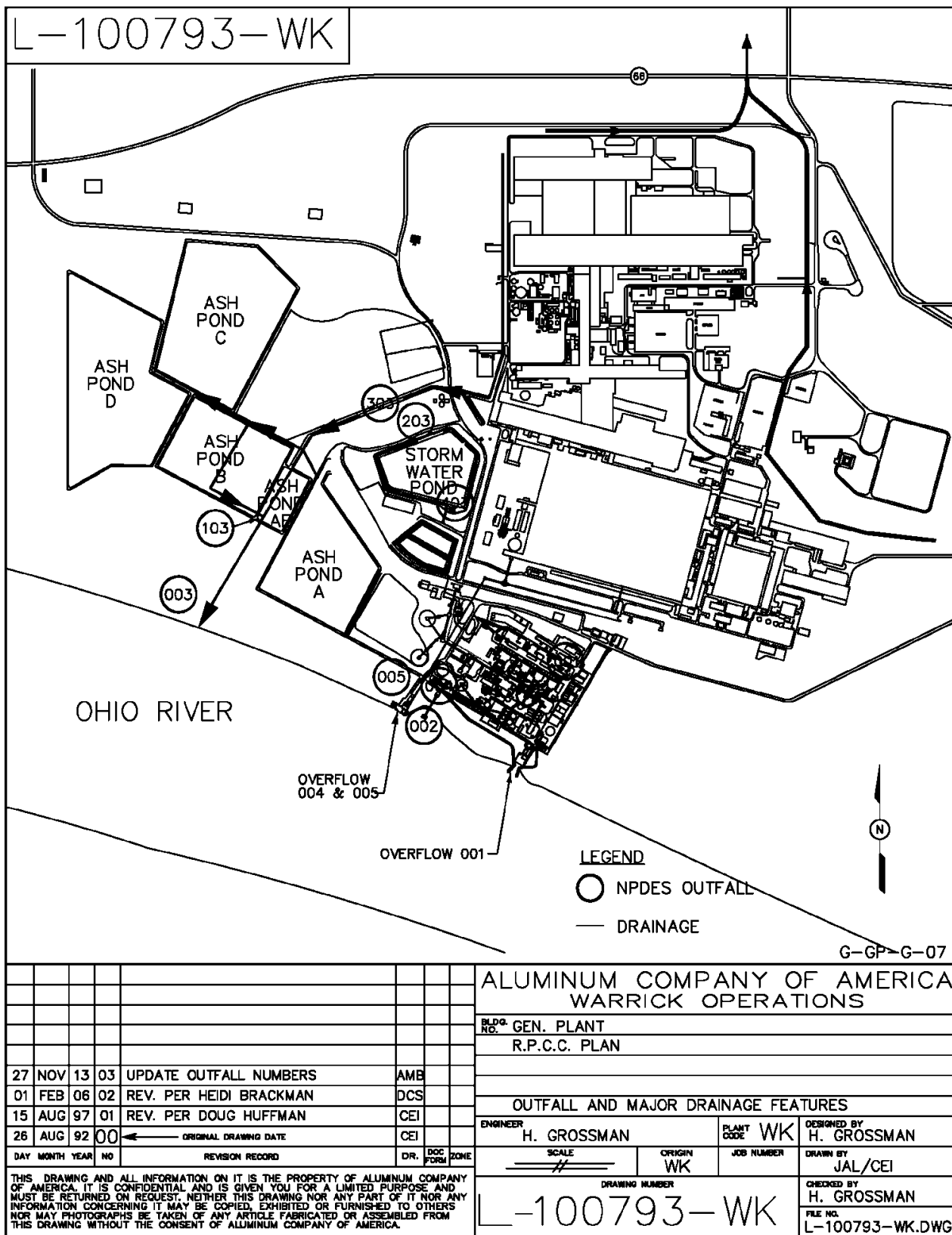


Figure 3: Facility Outfall Map

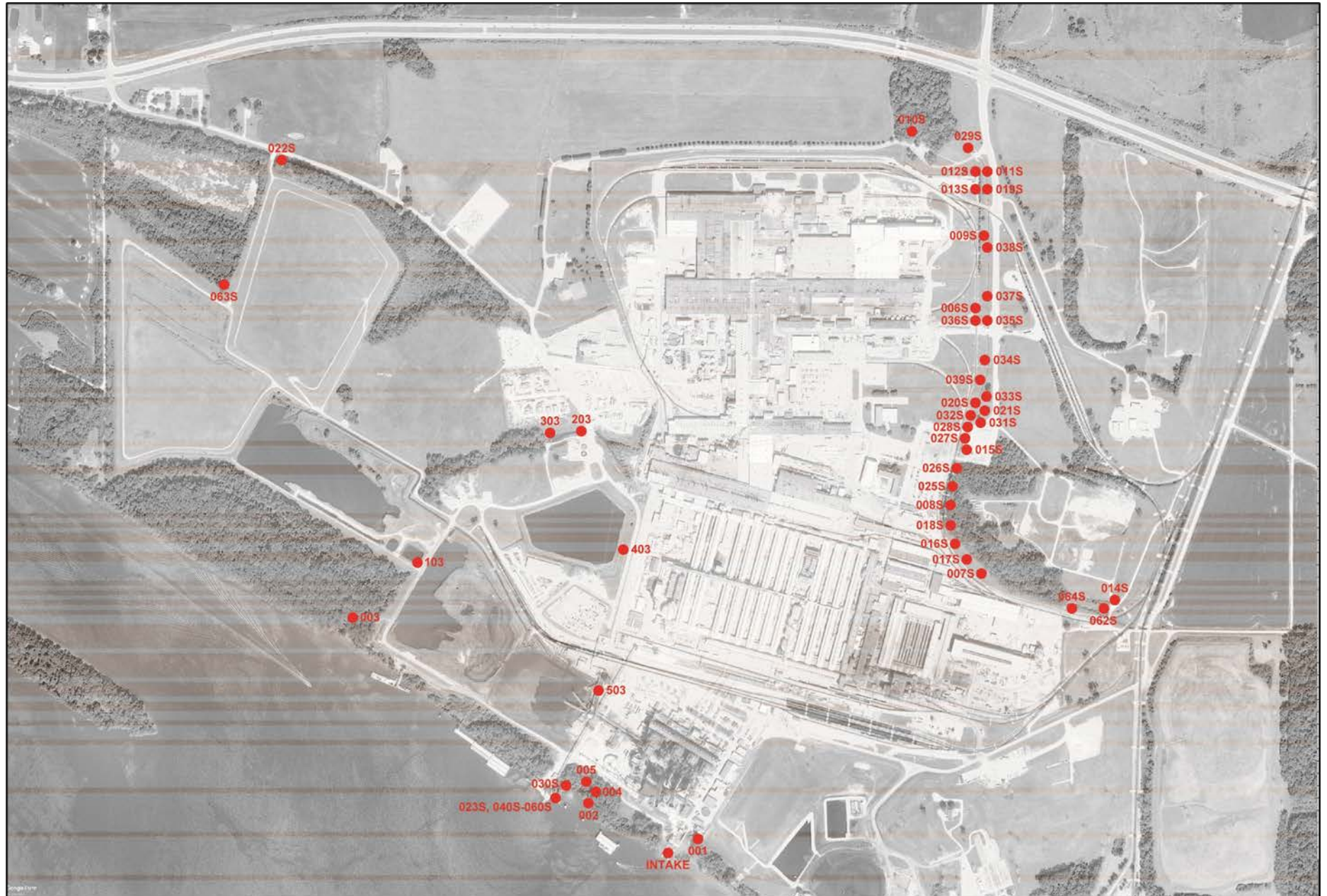


Figure 4: Stormwater Flow Map

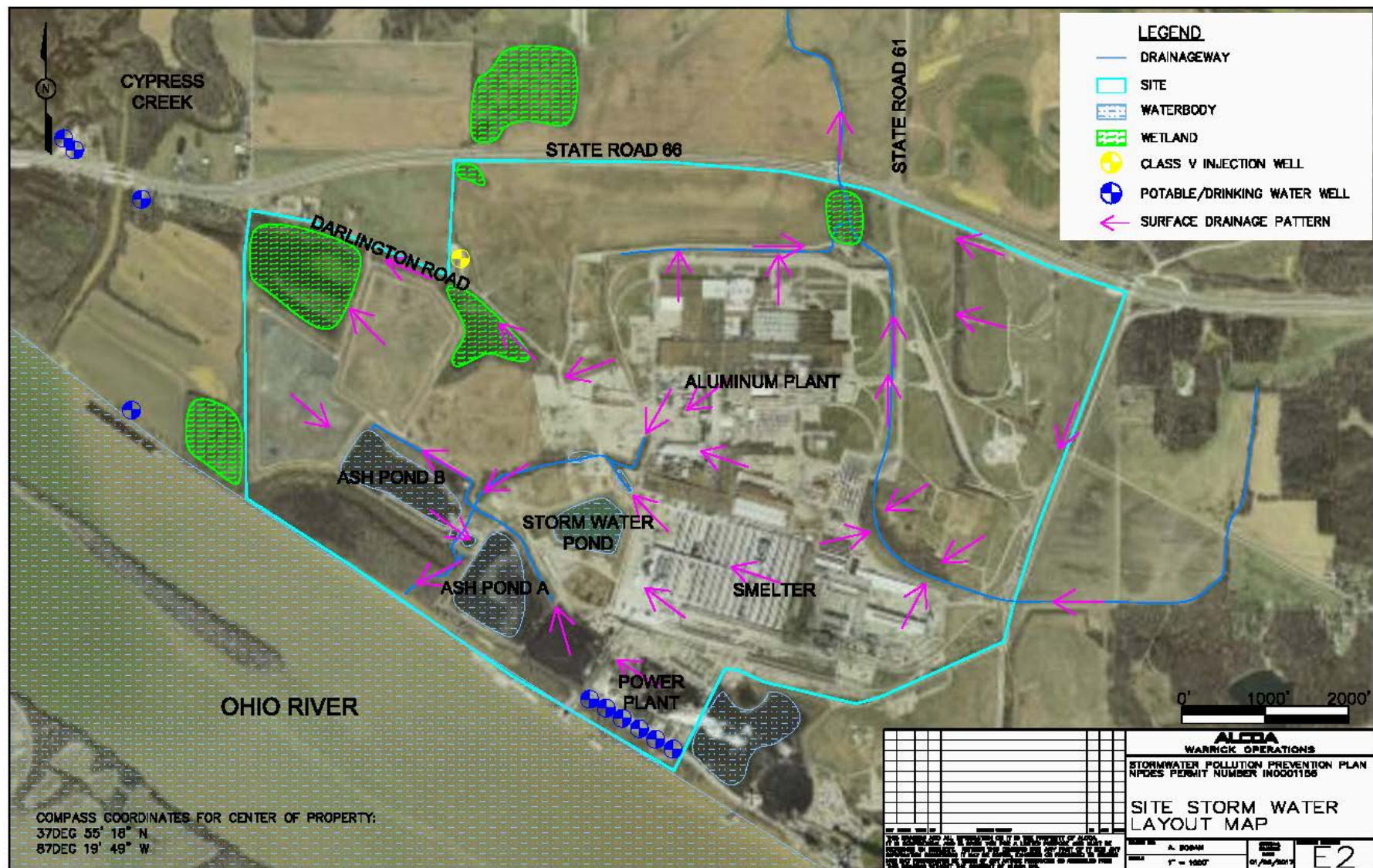
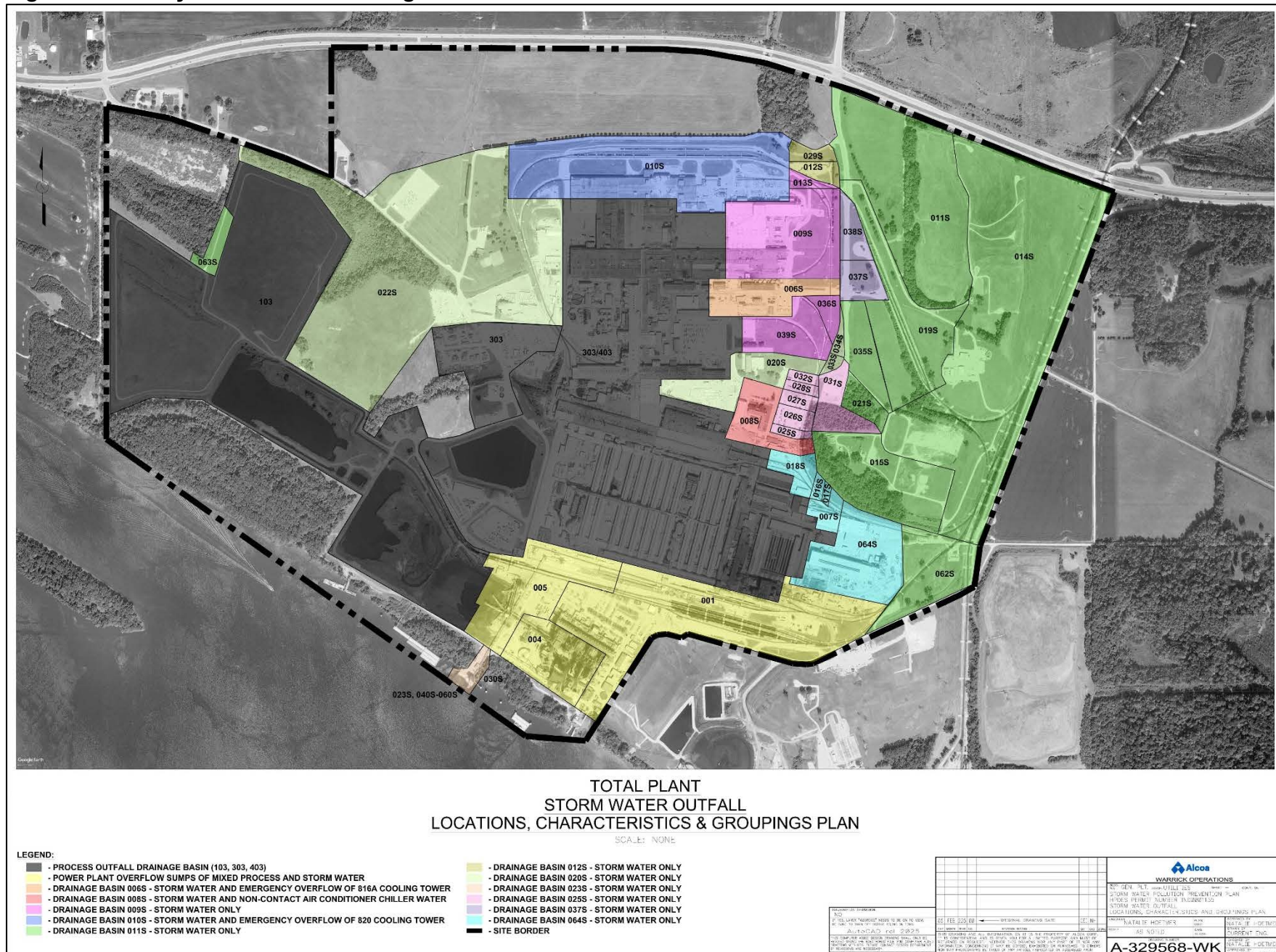


Figure 5: Facility Stormwater Drainage Areas



2.2 Outfall Locations

Outfall	Latitude	Longitude	Decimal Degrees	Receiving Water
001	37°54'45.7"	-87°19'56.3"	37.91269, -87.33231	Ohio River
002	37°54'50.3"	-87°20'09.7"	37.91397, -87.33603	Ohio River
003	37°55'05.1"	-87°20'35.9"	37.91808, -87.34331	Ohio River
103	37°55'10.9"	-87°20'26.6"	37.91969, -87.34072	Combines with Outfall 303 and discharges through Outfall 003
203	37°55'21.4"	-87°20'08.6"	37.92261, -87.33572	Discharges through Outfall 303
303	37°55'21.7"	-87°20'12.1"	37.92269, -87.33669	Combines with Outfall 103 and discharges through Outfall 003
403	37°55'09.9"	-87°20'06.7"	37.91942, -87.33519	Used in flue gas desulfurization scrubbers, discharges through Outfall 503, then 103 and ultimately through Outfall 003
503	37°55'00.4"	-87°20'05.9"	37.91678, -87.33497	Discharges through Outfall 103 and ultimately through Outfall 003
603	NA	NA	NA	Administrative Outfall-Not a physical outfall
703	37°54'57"	-87°20'04"	37.9158, -87.3344	Discharges through Outfall 103 and ultimately through Outfall 003
004	37°54'51.8"	-87°20'07.4"	37.91439, -87.33539	Ohio River
005	37°54'52.6"	-87°20'08.9"	37.91461, -87.33581	Ohio River
001S	37°54'45.7"	-87°19'56.3"	37.91269, -87.33231	Ohio River
006S	37°55'31.4"	-87°19'22.8"	37.92539, -87.323	Unnamed tributary of Cypress Creek
007S	37°55'08.8"	-87°19'21.7"	37.91911, -87.32269	Unnamed tributary of Cypress Creek
008S	37°55'14.5"	-87°19'28.2"	37.92069, -87.3245	Unnamed tributary of Cypress Creek
009S	37°55'37.6"	-87°19'22.8"	37.92711, -87.323	Unnamed tributary of Cypress Creek
010S	37°55'47.6"	-87°19'31.8"	37.92989, -87.3255	Unnamed tributary of Cypress Creek
011S	37°55'43.3"	-87°19'22.4"	37.92869, -87.32289	Unnamed tributary of Cypress Creek
012S	37°55'43.3"	-87°19'22.8"	37.92869, -87.323	Unnamed tributary of Cypress Creek
013S	37°55'41.5"	-87°19'22.8"	37.92819, -87.323	Unnamed tributary of Cypress Creek
014S	37°55'05.2"	-87°19'08.8"	37.91811, -87.31911	Unnamed tributary of Cypress Creek
015S	37°55'19.6"	-87°19'26.4"	37.92211, -87.324	Unnamed tributary of Cypress Creek
016S	37°55'10.9"	-87°19'24.6"	37.91969, -87.3235	Unnamed tributary of Cypress Creek
017S	37°55'09.8"	-87°19'22.8"	37.91939, -87.323	Unnamed tributary of Cypress Creek
018S	37°55'13.4"	-87°19'27.8"	37.92039, -87.32439	Unnamed tributary of Cypress Creek
019S	37°55'41.9"	-87°19'22.4"	37.92831, -87.32289	Unnamed tributary of Cypress Creek
020S	37°55'22.4"	-87°19'25.0"	37.92289, -87.32361	Unnamed tributary of Cypress Creek
021S	37°55'21.7"	-87°19'25.3"	37.92269, -87.32369	Unnamed tributary of Cypress Creek
022S	37°55'46.2"	-87°20'42.0"	37.9295, -87.345	Wetlands which are tributary to Cypress Creek
023S	37°54'50.9"	-87°20'12.8"	37.91414, -87.33689	Ohio River
025S	37°55'16.0"	-87°19'27.8"	37.92111, -87.32439	Unnamed tributary of Cypress Creek
026S	37°55'17.8"	-87°19'27.1"	37.92161, -87.32419	Unnamed tributary of Cypress Creek
027S	37°55'19.6"	-87°19'26.8"	37.92211, -87.32411	Unnamed tributary of Cypress Creek
028S	37°55'20.3"	-87°19'26.0"	37.92231, -87.32389	Unnamed tributary of Cypress Creek
029S	37°55'46.2"	-87°19'23.9"	37.9295, -87.32331	Unnamed tributary of Cypress Creek
030S	37°54'51.8"	-87°20'11.0"	37.91439, -87.33639	Ohio River
031S	37°55'21.4"	-87°19'25.7"	37.92261, -87.32381	Unnamed tributary of Cypress Creek
032S	37°55'21.7"	-87°19'25.7"	37.92269, -87.32381	Unnamed tributary of Cypress Creek
033S	37°55'22.8"	-87°19'25.0"	37.923, -87.32361	Unnamed tributary of Cypress Creek

Outfall	Latitude	Longitude	Decimal Degrees	Receiving Water
034S	37°55'26.8"	-87°19'22.8"	37.92411, -87.323	Unnamed tributary of Cypress Creek
035S	37°55'30.4"	-87°19'22.8"	37.92511, -87.323	Unnamed tributary of Cypress Creek
036S	37°55'30.4"	-87°19'23.2"	37.92511, -87.32311	Unnamed tributary of Cypress Creek
037S	37°55'32.5"	-87°19'22.4"	37.92569, -87.32289	Unnamed tributary of Cypress Creek
038S	37°55'36.8"	-87°19'22.4"	37.92689, -87.32289	Unnamed tributary of Cypress Creek
039S	37°55'25.3"	-87°19'23.9"	37.92369, -87.32331	Unnamed tributary of Cypress Creek
040S	37°54'52.6"	-87°20'12.1"	37.91461, -87.33669	Ohio River
041S	37°54'52.2"	-87°20'12.5"	37.9145, -87.33681	Ohio River
042S	37°54'51.9"	-87°20'12.8"	37.91442, -87.33689	Ohio River
043S	37°54'51.8"	-87°20'13.0"	37.91439, -87.33694	Ohio River
044S	37°54'51.8"	-87°20'13.2"	37.91439, -87.337	Ohio River
045S	37°54'51.8"	-87°20'13.5"	37.91439, -87.33708	Ohio River
046S	37°54'51.3"	-87°20'13.5"	37.91425, -87.33708	Ohio River
047S	37°54'51.3"	-87°20'13.3"	37.91425, -87.33703	Ohio River
048S	37°54'51.2"	-87°20'13.2"	37.91422, -87.337	Ohio River
049S	37°54'51.1"	-87°20'13.1"	37.91419, -87.33697	Ohio River
050S	37°54'51.0"	-87°20'12.9"	37.91417, -87.33692	Ohio River
051S	37°54'50.8"	-87°20'12.7"	37.91411, -87.33686	Ohio River
052S	37°54'50.8"	-87°20'12.6"	37.91411, -87.33683	Ohio River
053S	37°54'50.7"	-87°20'12.4"	37.91408, -87.33678	Ohio River
054S	37°54'50.6"	-87°20'12.3"	37.91406, -87.33675	Ohio River
055S	37°54'50.6"	-87°20'12.0"	37.91406, -87.33667	Ohio River
056S	37°54'50.8"	-87°20'11.8"	37.91411, -87.33661	Ohio River
057S	37°54'50.9"	-87°20'11.7"	37.91414, -87.33658	Ohio River
058S	37°54'51.0"	-87°20'11.8"	37.91417, -87.33661	Ohio River
059S	37°54'51.3"	-87°20'11.8"	37.91425, -87.33661	Ohio River
060S	37°54'52.7"	-87°20'10.7"	37.91464, -87.33631	Ohio River
062S	37°55'05.2"	-87°19'09.1"	37.91811, -87.31919	Unnamed tributary of Cypress Creek
063S	37°55'35.0"	-87°20'47.4"	37.92639, -87.3465	Wetlands which are tributary to Cypress Creek
064S	37°55'06.2"	-87°19'14.5"	37.91839, -87.32069	Unnamed tributary of Cypress Creek

3.0 PERMIT MODIFICATION

3.1 Modification Request

Warrick Newco LLC requests a revision to the Outfall 004 and Outfall 001S descriptions to include reverse osmosis (RO) reject water and replace mentions of potassium permanganate with sodium permanganate. An RO unit will be installed as part of the facility's potable water treatment system. Suggested language for the revised outfall descriptions is provided in the NPDES permit modification application.

Under normal operations, Outfall 001S does not discharge. The resulting reject water will be routed from the intercept (mini) sump to the 380X intercept sump, then pumped to the Outfall 004 sump. Outfall 004 also does not discharge under normal operations. The wastewater collected in the Outfall 004 intercept sump is normally pumped to the ash pond system and discharged through Outfall 103. Discharge from Outfall 004 only occurs during emergency overflow conditions caused by heavy precipitation or hydraulic loading events in excess of the system's pumping capacity, or during periods of electrical/mechanical pump failure.

The RO system will generate a maximum of 185 gallons per minute (GPM) of reject water, equivalent to 0.2664 million gallons per day (MGD). Two pumps are installed at the intercept (mini) sump (Outfall 001S when discharging). Each pump has a capacity of 250-300 GPM (0.3600-0.4320 MGD). The RO system can be turned off during rain events if it is deemed necessary.

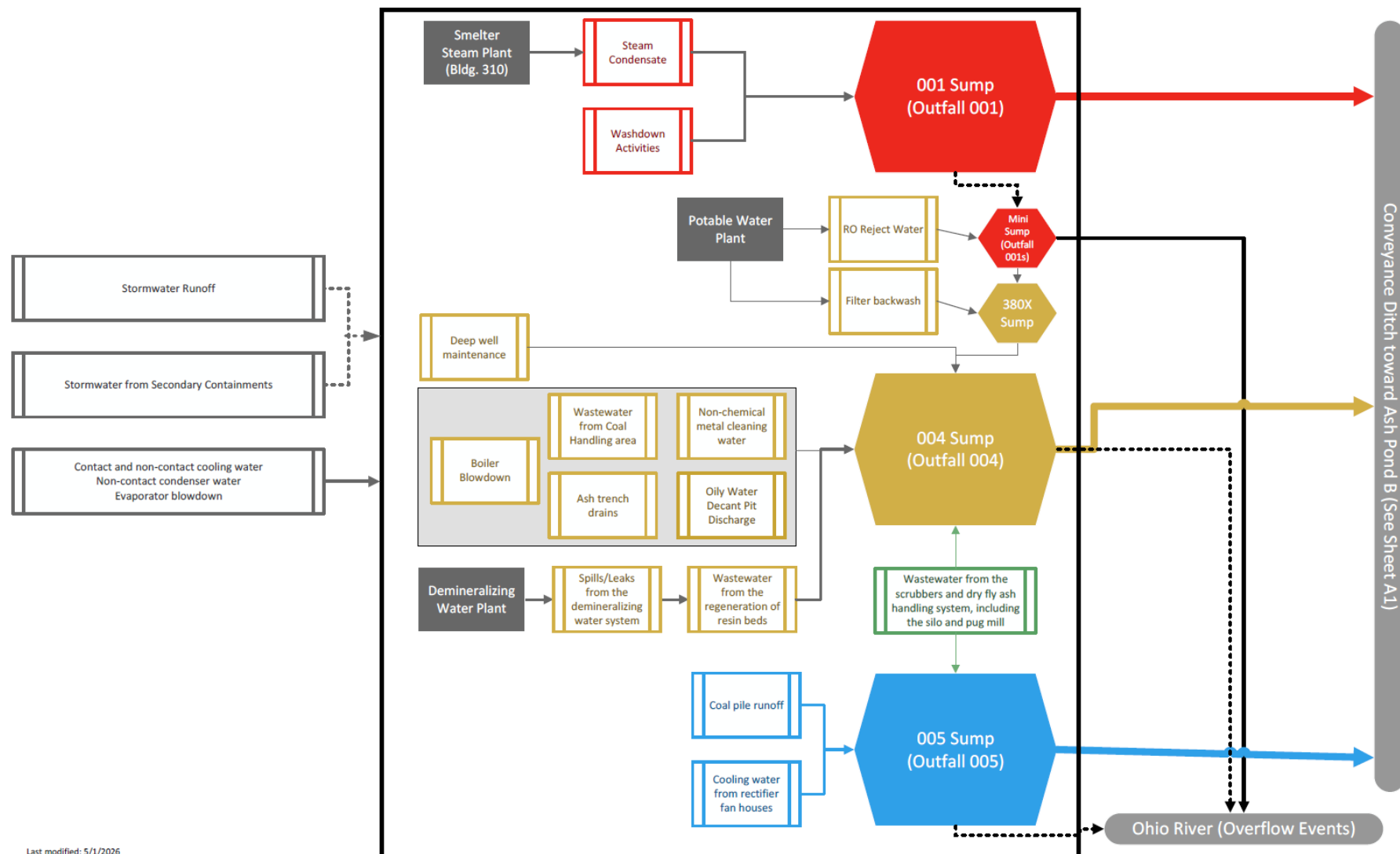
The analytical composition of the reject water is unknown until the system is operating. Samples were collected from the finished potable water and are predicted to be 3 times the analyzed value. Warrick Newco LLC provided the finished potable water samples and predicted RO reject concentrations of the sampled parameters. Outfall 004 has limits on copper, iron, and zinc, and these parameters were non-detect on the report.

A Water Balance Diagram including the RO reject water has been included as Figure 6.

Figure 6: Water Balance Diagram

Sheet D2 – Power Plant Sumps

Alcoa Warrick Operations
Water Balance



Last modified: 5/1/2026

3.2 IDEM's Proposed Modification

IDEM agrees to this modification request. The outfall descriptions for Outfall 004 in Part I.A.11 (Page 31) of the permit and Outfall 001S in Part I.A.13 (Page 38) of the permit have been revised to include RO reject water and replace mentions of potassium permanganate with sodium permanganate.

After reviewing the finished potable water data, predicted RO reject concentrations of the sampled parameters, and considering the potential discharge flows at each outfall, monitoring has been included in Part I.A.11, Table 1 for Outfall 004 (Page 32) and Part I.A.13, Table 1 for Outfall 001S (Page 38) for barium, boron, and chloride to determine if there is a reasonable potential to exceed a water quality criterion for any of these parameters. Due to the intermittent nature of each discharge, the sample type will be grab samples taken twice monthly for Outfall 004 and once quarterly for Outfall 001S.

Footnote [13] (Page 34) and Footnote [10] (Page 39a) were added for Outfall 004 and Outfall 001S, respectively, to include the approved test methods for barium and corresponding limit of detection (LOD) and limit of quantification (LOQ) for each method. The last paragraph of Footnote [8] in Part I.A.11 (Page 33) specifying the sampling order was removed from Footnote [8] and added as its own footnote, now Footnote [15] (Page 34), as it applies to parameters monitored quarterly and those monitored monthly. Lastly, Footnote [14] (Page 34) was added to Part I.A.11 to clarify when the permittee may report "no discharge" for parameters to be monitored twice monthly.

3.3 Additional Changes

Although not part of the modification request, it was discovered after a final NPDES permit for Permit No. IN0001155 was sent to Warrick Newco LLC on February 27, 2026, that corrections to Pages 13 and 15 of the permit are necessary to correct typographical errors of the permit. Those corrections have been made as part of this permit modification and include the following:

- The footnote reference for monitoring of Hexavalent Chromium at Outfall 103 has been added to Page 15 of the permit (Footnote [9]) and properly footnoted in Part I.A.4, Table 2 on Page 13 of the permit.
- Selenium has been properly footnoted (Footnote [5]) in Part I.A.4, Table 2 on Page 13 of the permit.

3.4 Antibacksliding

Indiana's prohibitions on backsliding under 327 IAC 5-2-10(a)(11) are applicable to BPJ case-by-case technology-based effluent limitations, when proposed to be increased based on subsequently promulgated effluent guidelines under Section 304(b) of the CWA, and limitations based on Indiana water quality standards or treatment standards (327 IAC 5-10). Prohibitions on other types of backsliding (e.g., backsliding from limitations derived from effluent guidelines, from existing case-by-case limitations to new case-by-case limitations, and from conditions such as monitoring requirements that are not effluent limitations) are covered under federal regulation at 40 CFR 122.44(l)(1).

Under 327 IAC 5-2-10(a)(11), unless an exception under 327 IAC 5-2-10(a)(11)(B) 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. For effluent limitations based on Indiana water quality or treatment standards, less stringent effluent limitations may also be allowed if they are in compliance with Section 303(d)(4) of the CWA. Under 40 CFR 122.44(l)(1), a permit may not be renewed or reissued to contain less stringent interim effluent limitations, standards or conditions than the final effluent limitations, standards or conditions in the previous permit unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under 40 CFR 122.62.

None of the limits included in this permit are less stringent than the comparable effluent limitations in the previous permit, therefore, backsliding is not an issue in accordance with 327 IAC 5-2-10(a)(11) and 40 CFR 122.44(l)(1).

3.5 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.

3.6 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.

3.7 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/public-notice/>. Additional information on public participation can be found in the "Citizens' Guide to IDEM", available at <https://www.in.gov/idem/resources/citizens-guide-to-idem/>. A 30-day comment period is available to solicit input from interested parties, including the public.