

HOUSE, JASON

From: HOUSE, JASON
Sent: Thursday, October 24, 2019 4:41 PM
To: Maciel, Robert A; Nagel, Keith
Cc: Kuss, Hala; Ream, Nicholas; Lugar, Robert G; Higginbotham, Paul; Bingman, Susanna; Rogers, Joan
Subject: Additional Monitoring Requirements at NPDES Outfall 002 - IN0000175

Dear Mr. Maciel:

According to NPDES Permit No. IN0000175, the discharge from Outfall 002 consists of non-contact cooling water, treated process wastewater from the lagoon re-circulating pump station (which according to ArcelorMittal Burns Harbor (AMBH) staff has not been utilized), building de-watering, groundwater, miscellaneous non-process waters, and storm water. Currently, AMBH is required to routinely monitor the discharge from Outfall 002 for flow, total suspended solids, oil and grease, temperature and pH. AMBH is also required to monitor the discharge from Outfall 002 for ammonia, phenols, iron, lead, zinc, and fluoride when treated process wastewater from the lagoon re-circulating pump station is directed to Outfall 002.

On Friday August 16, 2019, IDEM required AMBH to commence daily sampling for total cyanide at Outfall 002. The results of the daily sampling have indicated that cyanide is being discharged from Outfall 002. IDEM has requested that AMBH investigate this matter and provide IDEM the results of the investigation, as cyanide is not expected to be discharged from Outfall 002. To date, IDEM has not received the results of the investigation from AMBH.

To further characterize the discharge from Outfall 002 and to aid in the identification of the waste streams that may be a source of cyanide contamination at Outfall 002, it is necessary to expand monitoring at Outfall 002 to include additional pollutant parameters and at increased monitoring frequencies. Specifically, IDEM hereby directs AMBH to commence daily, 24-hour composite sampling for the following parameters at Outfall 002:

- Ammonia (as N)
- Total phenols (4AAP)
- Iron, dissolved
- Lead, total recoverable
- Zinc, total recoverable
- Fluoride, total
- Free cyanide (using Method OIA-1677-09, unless an alternate method is approved)
- Copper, total recoverable
- Silver, total recoverable
- Boron, total
- Chemical Oxygen Demand

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 IDEM 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).

Thank you in advance for your cooperation in the collection of additional information pertaining to this matter. Should you have questions concerning the commencement of the daily monitoring as prescribed above, please feel free to contact Hala Kuss, Nick Ream, or me.

Sincerely,



Jason House

Chief - Wastewater Compliance Branch
Office of Water Quality

(317) 233-0470 • jahouse@idem.IN.gov

Indiana Department of Environmental Management
100 N. Senate Avenue, Indianapolis, IN 46204
<https://www.in.gov/idem/cleanwater/2337.htm>



IDEM values your feedback.

Learn how to help us improve our wastewater compliance programs.

