

NPDES Permit No. IL0069272  
Notice No. 13071601bwc.docx

Public Notice Beginning Date: **August 26, 2013**

Public Notice Ending Date: **September 26, 2013**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency  
Bureau of Water  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Discharger:

CF Industries Sales, LLC  
4 Parkway North, Suite 400  
Deerfield, Illinois 60015

Name and Address of Facility:

CF Industries Sales, LLC  
Kingston Mines Terminal  
#1 Front Street  
Kingston Mines, Illinois 61539  
(Peoria County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Brian W. Cox at 217/782-0610.

The applicant is engaged in the storage and distribution of anhydrous ammonia and other nitrogen-based liquid fertilizers used for agricultural purposes (SIC 5191). The facility receives ammonia and other fertilizer products from barges and stores them in above-ground storage tanks. The ammonia is then transferred to trucks for seasonal distribution. Waste water is generated from non-contact cooling waters used in the ammonia vapor condenser. Plant operation results in an average discharge of 0.001 MGD of condenser cooling water blowdown from outfall 001.

The condenser cooling water blowdown may contain biocides and corrosion inhibitors which have been approved by the Agency. The source of the condenser makeup water is the Kingston Mines potable water distribution system which is supplied by the Timber-Logan Water District.

Treatment of the condenser cooling water blowdown consists of dechlorination which is to be utilized whenever it is determined to be necessary to comply with the water quality based effluent limits.

The following modifications are proposed:

The name of the discharger was changed from CF Industries, INC to CF Industries Sales, LLC. The address of the discharger was changed One Salem Lake Drive, Long Grove, Illinois 60047 to 4 Parkway North, Suite 400, Deerfield, Illinois 60015.

Permit limits for ammonia have been added to the permit based on the water quality standards found at Title 35 Ill. Adm. Code 302.212. A schedule of compliance was determined to be necessary and has been provided in the special conditions of the permit.

Application is made for the existing discharge(s) which is located in Peoria County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Unnamed Tributary to the Banner Levee District pump house tributary to the Illinois River	40° 33' 23" North	89° 46' 51" West	General Use	Not Rated

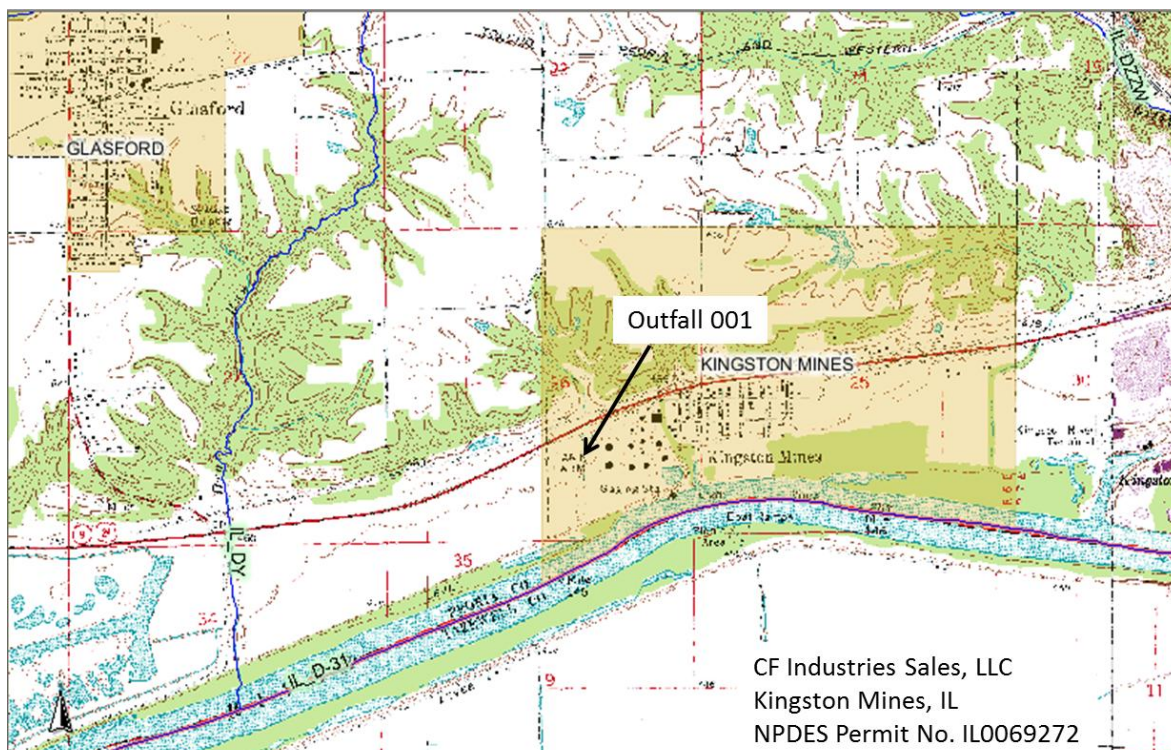
To assist you further in identifying the location of the discharge please see the attached map.

The stream segment receiving the discharge from outfall 001 is not on the 2012 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The stream segment, IL\_D-31, which the Banner Levee District is tributary to is on the 2012 303(d) list of impaired waters, was not provided an integrity rating and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The following parameters have been identified as the pollutants causing impairment:

<u>Designated Use</u>	<u>Potential Cause</u>
Fish Consumption	Mercury, Polychlorinated Biphenyls
Primary Contact Recreation	Fecal Coliform



The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfall: 001

	LOAD LIMITS lbs/day DAF (DMF)				CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE		DAILY MAXIMUM	REGULATION	30 DAY AVERAGE		DAILY MAXIMUM	REGULATION
Flow (MGD)								
pH					Shall be within the range 6.0-9.0 s.u.			35 IAC 302.204
Temperature								35 IAC 302.211
Total Residual Chlorine							0.05*****	35 IAC 302.208 & 40 CFR 125.3
Ammonia Nitrogen (as N)	30-Day Avg.	Weekly Avg.	Daily Max		30-Day Avg.	Weekly Avg.	Daily Max	
Spring/Fall**					1.6*	5.7*	5.7*	35 IAC 302.212 & 35 IAC 355
Summer***					0.8*	2.0*	4.4*	35 IAC 302.212 & 35 IAC 355
Winter****					2.7*	4.0*	3.2*	35 IAC 302.212 & 35 IAC 355

\*The ammonia limits noted in the table are applicable in accordance with the three year schedule of compliance which is detailed in the special conditions of the permit.

\*\*Spring/Fall consists of the following months: Mar.-May & Sept.-Oct.

\*\*\*Summer consists of the following months: June – August

\*\*\*\*Winter consists of the following months: November-February

\*\*\*\*\* The water quality standard for TRC (0.011 mg/l for 30-day average and 0.019 mg/l for daily max) is below the method detection level (0.05 mg/l) as described in 40 CFR 136. Therefore, for the purpose of this permit, the method detection level will be utilized to determine compliance with the permit limit for TRC. A measurement of <0.05 mg/l reported on the DMR shall not be considered a violation of the water quality based effluent limit. This reporting threshold is being established to determine compliance and does not authorize the discharge of TRC in excess of the water quality based effluent limit.

The special conditions of this permit serve the purpose of clarifying the following: discharge monitoring location, the submittal of discharge monitoring reports, temperature limitations, pH limitations, TRC limitations, and details and requirements associated with the compliance schedule provided for ammonia.

NPDES Permit No. IL0069272

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

CF Industries Sales, LLC  
4 Parkway North, Suite 400  
Deerfield, Illinois 60015

Facility Name and Address:

CF Industries Sales, LLC  
Kingston Mines Terminal  
#1 Front Street  
Kingston Mines, Illinois 61539  
(Peoria County)

Discharge Number and Name:

001 Condenser Cooling Water Blowdown

Receiving Waters:

Unnamed Tributary to the Banner Levee District pump house  
tributary to the Illinois River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

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NPDES Permit No. IL0069272

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 – Condenser Cooling Water Blowdown  
(DAF = 0.001 MGD)

	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS mg/L				
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM		SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	See Special Condition 1						1/Month	Measurement
pH	See Special Condition 2						1/Month	Grab
Temperature	See Special Condition 3						1/Month	Single Reading
Total Residual Chlorine					0.05*		1/Month	Grab
Ammonia Nitrogen (as N)	Monthly Average	Weekly Average	Daily Max	Monthly Average	Weekly Average	Daily Max		
Spring/Fall***				1.6**	5.7**	5.7**	1/Week	Grab
Summer****				0.8**	2.0**	4.4**	1/Week	Grab
Winter*****				2.7**	4.0**	3.2**	1/Week	Grab

\*See Special Condition 10

\*\* See Special Condition 11 for a schedule of compliance.

\*\*\* Spring/Fall consists of March – May and September – October

\*\*\*\* Summer consists of June – August

\*\*\*\*\* Winter consists of November – February

Special Conditions

**SPECIAL CONDITION 1.** Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the Discharge Monitoring Report. In the event that no discharge occurs during a given month, a statement of "No discharge" shall be reported on the DMR submitted for that month.

**SPECIAL CONDITION 2.** The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

**SPECIAL CONDITION 3.** This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

- A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more than 1.7° C (3° F).

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

- B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C (5° F).
- D. The monthly maximum value shall be reported on the DMR form.

**SPECIAL CONDITION 4.** Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

**SPECIAL CONDITION 5.** The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

**SPECIAL CONDITION 6.** If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

**SPECIAL CONDITION 7.** For the purpose of this permit, the discharge from Outfall 001 is limited to condenser cooling water blowdown free from process and other wastewater discharges. In the event the permittee shall require the use of water treatment additives other than those previously approved by this Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has previously been approved by this Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.

Special Conditions

SPECIAL CONDITION 8. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 9. No effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.

SPECIAL CONDITION 10.

All samples for Total Residual Chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained. For the purpose of this permit Total Residual Chlorine means those substances which include combined and uncombined forms of both chlorine and bromine and which are expressed, by convention, as an equivalent concentration of molecular chlorine.

The water quality standard for TRC (0.011 mg/l 30-day average and 0.019 mg/l daily max) is below the method detection level (0.05 mg/l) as described in 40 CFR 136. Therefore, for the purpose of this permit, the method detection level will be utilized to determine compliance with the permit limit for TRC. A measurement of <0.05 mg/l reported on the DMR shall not be considered a violation of the water quality based effluent limit. This reporting threshold is being established to determine compliance and does not authorize the discharge of TRC in excess of the water quality based effluent limit.

SPECIAL CONDITION 11. The ammonia limits described on page two of this permit for discharge number(s) 001 shall become effective three years from the effective date of this Permit. Ammonia shall continue to be monitored on a weekly basis until the limits on page two of this permit become effective. Reporting shall be submitted on the DMR's on a monthly basis.

In order for the Permittee to achieve the ammonia limits on page 2 of this permit, it may be necessary to construct equipment to allow for alternate means of disposal, treatment facilities, or to obtain a new source of water in accordance with the following schedule:

- |   |  |
|---|--|
| 1. Submit results of investigation to determine the source of the ammonia | 12 months from the effective date of this Permit |
| 2. Submit plans, specifications, and any necessary permit applications    | 18 months from the effective date of this Permit |
| 3. Arrange financing  | 21 months from the effective date of this Permit |
| 4. Commence construction  | 22 months from the effective date of this Permit |
| 5. Interim report   | 28 months from the effective date of this Permit |
| 6. Complete construction  | 34 months from the effective date of this Permit |
| 7. Obtain operational level   | 36 months from the effective date of this Permit |

Compliance dates set out in this Permit may be superseded or supplemented by compliance dates in judicial orders, Pollution Control Board orders. This Permit may be modified, with Public Notice, to include such revised compliance dates.

The Permittee shall operate the facilities in a manner to ensure continuous compliance with the ammonia limit, and not to the extent that will result in violations of other permitted effluent characteristics, or water quality standards.

REPORTING

The Permittee shall submit a report no later than fourteen (14) days following the completion dates indicated for each numbered item in the compliance schedule, indicating, a) the date the item was completed, or b) that the item was not complete, the reasons for non-completion and the anticipated completion date.