

NPDES Permit No. IL0001708  
Notice No. MEL:11081002.bah

Public Notice Beginning Date: **September 22, 2011**

Public Notice Ending Date: **October 24, 2011**

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:

Agrium U.S. Inc.  
Post Office Box 118  
Marseilles, Illinois 61341

Name and Address of Facility:

Agrium U.S. Inc. - Marseilles Terminal  
2100 East Broadway Street  
Marseilles, Illinois 61341  
(LaSalle 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 Mark E. Liska at 217/782-0610.

The applicant is engaged in the storage of fertilizer products (SIC 5191). Waste water is generated from the discharge of non-contact cooling water, treated sanitary wastewater, hydrostatic test water, and stormwater runoff. Plant operation results in an average discharge of 1.65 MGD of combined discharge from outfall 001, 0.065 MGD of treated sanitary wastewater from outfall A01, an intermittent discharge of hydrostatic test water and stormwater runoff from outfall B01, 1.45 MGD of non-contact cooling water from outfall C01 and an intermittent discharge of hydrostatic test water from outfall D01.



Load Limit Calculations:

- A. Load limit calculations for the following pollutant parameters were based on an average flow of 0.065 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): 16/32 lb day for BOD<sub>5</sub> and TSS at Outfall A01.

The following sample calculation shows the methodology utilized to determine production based load limitations:

At Outfall A01:

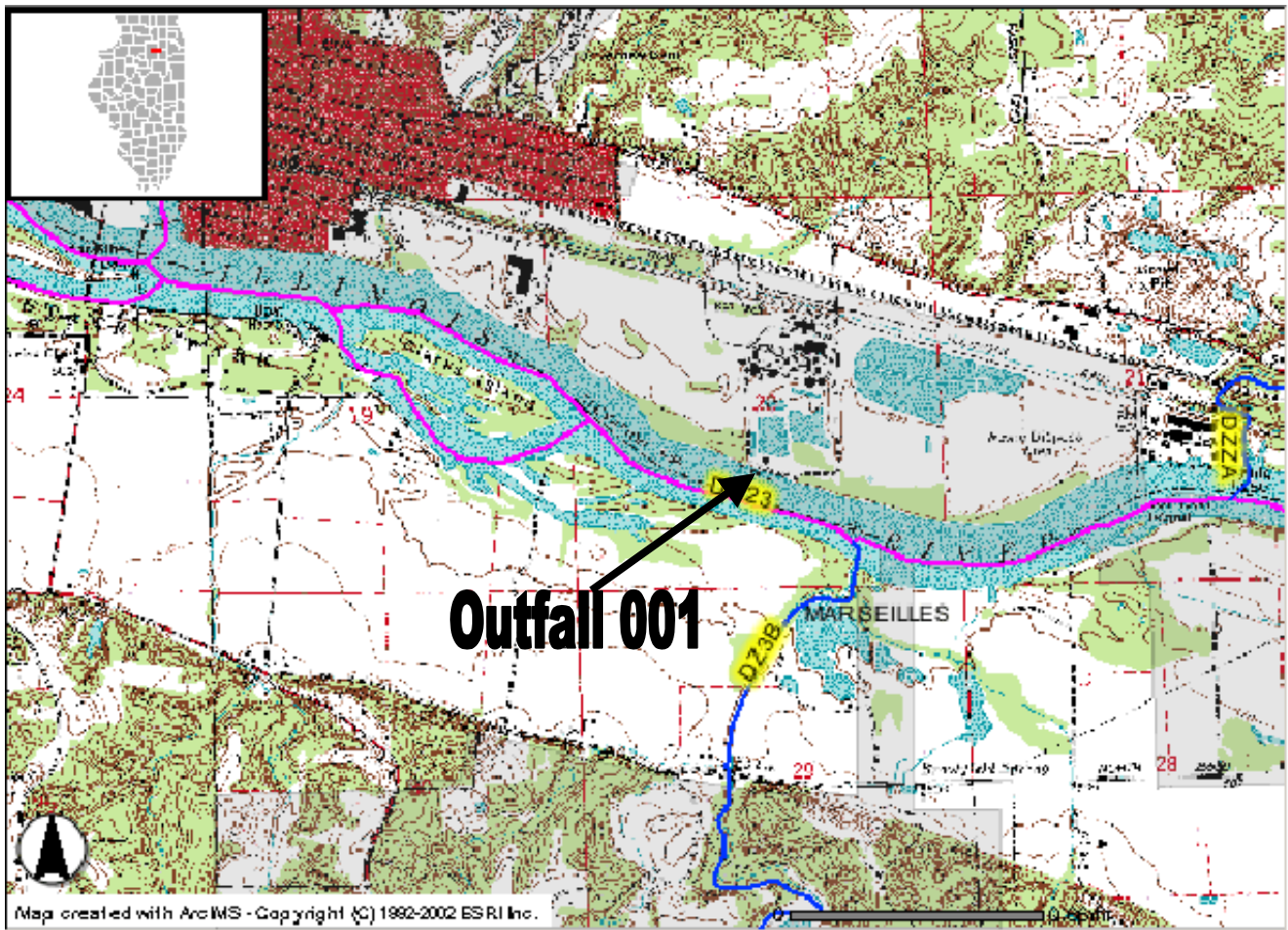
$$8.31 \times 0.065 \text{ MGD} \times 30/60 \text{ mg/L limit} = 16/32 \text{ lb day of BOD}_5$$

$$8.31 \times 0.065 \text{ MGD} \times 30/60 \text{ mg/L limit} = 16/32 \text{ lb day of Total Suspended Solids}$$

The load limits appearing in the permit will be the more stringent of the State and Federal Guidelines.

The following explain the conditions of the proposed permit:

Special Conditions will require monthly DMR submission, explain total residual chlorine compliance, explain the non-contact cooling water limitations of this permit, and define pH, temperature, and fecal coliform limits.



NPDES Permit No. IL0001708

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:

Facility Name and Address:

Agrium U.S. Inc.  
Post Office Box 118  
Marseilles, Illinois 61341

Agrium U.S. Inc. - Marseilles Terminal  
2100 East Broadway Street  
Marseilles, Illinois 61341  
(LaSalle County)

Discharge Number and Name:

Receiving Waters:

001 - Combined Outfall  
A01 - Treated Sanitary Wastewater and Ancillary Non-Process  
Wastewater

Illinois River  
Internal Outfall

B01 – Stormwater and Hydrostatic Test Water

Internal Outfall

C01 – Hydrostatic Test Water

Internal Outfall

D01 – Hydrostatic Test Water

Internal Outfall

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

SAK: MEL:11081002.bah

## NPDES Permit No. IL0001708

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:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
<u>Outfall: 001 – Combined Outfall (Discharge = 1.65 MGD)</u>						
Flow	See Special Condition 1				Continuous	Measure
pH	See Special Condition 2				2/Month	Grab
Temperature	See Special Condition 3				1/Month	Single-Reading
Ammonia			Monitor Only		2/Week	Composite
<u>Outfall: A01 – Treated Sanitary Wastewater and Ancillary Non-Process Wastewaters (Discharge = 0.065 MGD)</u>						
Flow	See Special Condition 1				Continuous	Estimate
pH	See Special Condition 2				1/Week	Grab
BOD <sub>5</sub>	16	32	30	60	1/Week	Composite
TSS	16	32	30	60	1/Week	Composite
Fecal Coliform	See Special Condition 4				1/Week	Grab
Total Residual Chlorine**				0.05	1/Week	Grab
Ammonia			Monitor Only		1/Year	Grab
<u>Outfall: B01 – Stormwater and Hydrostatic Test Water (Intermittent Discharge)</u>						
Flow	See Special Condition 1				1/Day*	Continuous
pH	See Special Condition 2				1/Day*	Grab
Total Iron			2	4	1/Day*	Grab
TSS			15	30	1/Day*	Grab
Ammonia			Monitor Only		1/Day	Grab
<u>Outfall: C01 – Non-Contact Cooling Water (Discharge = 1.45 MGD)</u>						
Flow	See Special Condition 1				Continuous	Measure
<u>Outfall: D01 – Hydrostatic Test Water (Intermittent Discharge)</u>						
Flow	See Special Condition 1				1/Day*	Continuous
pH	See Special Condition 2				1/Day*	Grab
Total Iron			2	4	1/Day*	Grab
TSS			15	30	1/Day*	Grab
Ammonia			Monitor Only		1/Day*	Grab

\* Required only when discharging hydrostatic test water.

\*\* See also Special Condition 9.

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 monthly Discharge Monitoring Report.

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 the 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. The daily maximum fecal coliform count shall not exceed 400 per 100 ml. The fecal coliform limit shall not apply during the period November 1 through April 30 of each year.

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. Samples taken in compliance with the effluent monitoring requirements for outfall 001 shall be taken at a point representative of the combined discharge including any discharges from the settling pond (outfall A01) and the stormwater retention pond (outfall B01).

SPECIAL CONDITION 7. Samples taken in compliance with the effluent monitoring requirements for outfalls A01-D01 shall be taken at points representative of the discharges but prior to mixture with any other internal waste streams.

SPECIAL CONDITION 8. 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 Conditions

SPECIAL CONDITION 9. 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.

SPECIAL CONDITION 10. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

