

NPDES Permit No. IL0002291
Notice No. LRL:11083102.bah

Public Notice Beginning Date: **March 7, 2012**

Public Notice Ending Date: **April 6, 2012**

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:

Caterpillar, Inc.
901 West Washington Street - SS6400
East Peoria, Illinois 61630

Name and Address of Facility:

Caterpillar, Inc. - East Peoria Complex
901 West Washington Street
East Peoria, Illinois 61630
(Tazewell 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 Leslie Lowry at 217/782-0610.

The applicant is engaged in manufacturing and assembly of track type tractors, components, and transmissions (SIC 3531). Plant operation results in an average discharge of 1.764 MGD of treated process wastewater from outfall 001, an intermittent discharge of stormwater runoff from outfall 002, an intermittent discharge of stormwater runoff from outfall 003, an emergency discharge of industrial wastewater lagoon wastewater from outfall 004, an emergency discharge of emergency by-pass wastewater from outfall 005, and an emergency discharge of emergency by-pass wastewater from outfall 006.

The following modification is proposed:

Renumbering of outfalls, A01 is now 001, B02 is now 002, C03 is now 003, D04 is now 004, E05 is now 005, and F06 is now 006.

Application is made for the existing discharges which are located in Tazewell 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	Illinois River	40° 40' 15" North	89° 36' 15" West	General Use	Not Rated
002	Branch A Ditch Tributary to the Illinois River	40° 40' 15" North	89° 36' 00" West	General Use	Not Rated
003	Main Ditch Tributary to the Illinois River	40° 39' 45" North	89° 35' 30" West	General Use	Not Rated
004	Illinois River	40° 40' 15" North	89° 36' 15" West	General Use	Not Rated
005	Branch A Ditch Tributary to the Illinois River	40° 40' 00" North	89° 36' 30" West	General Use	Not Rated
006	Main Ditch Tributary to the Illinois River	40° 40' 00" North	89° 36' 30" West	General Use	Not Rated

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

The stream segment D-05 receiving the discharge from outfalls 001 and 004 is on the 2010 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of the 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 and Primary Contact	Mercury, Polychlorinated Biphenyls, and Fecal Coliform

The stream segment receiving the discharge from outfalls 002, 003, 005, and 006 is not on the 2010 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of the Natural Resources publication *Integrating Multiple Taxa in a Biological Stream Rating System*.

The discharges from the facility shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS mg/L		
	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
<u>Outfall 001:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 & 35 IAC 302.208
Total Suspended Solids	194	383	40 CFR 433 & 35 IAC 304.124	15	30	35 IAC 304.124
Oil/Grease	104	209	40 CFR 433 & 35 IAC 304.124	15	30	35 IAC 304.124
Chromium (Total)	4.3	7.2	40 CFR 433	1	2	35 IAC 304.124
Copper (Total)		8.7	40 CFR 433		0.1347	40 CFR 122.44L
Lead (Total)	1.1	1.8	40 CFR 433	0.2	0.4	35 IAC 304.124
Nickel (Total)	6.2	10.3	40 CFR 433	1	2	35 IAC 304.124
Cyanide (Total)	1.7	3.1	40 CFR 433	0.1	0.2	35 IAC 304.124
Cadmium (Total)	0.67	1.8	40 CFR 433	0.15	0.3	35 IAC 304.124
Silver	0.62	1.1	40 CFR 433	0.1	0.2	35 IAC 304.124
Zinc (Total)	3.8	6.7	40 CFR 433	1	2	35 IAC 304.124

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001 cont.:</u>						
Total Toxic Organics		5.5	40 CFR 433		1.56	40 CFR 122.44L
BOD ₅				Monitor Only		
Phenols				Monitor Only		
Manganese				Monitor Only		
Iron (Total)				Monitor Only		
<u>Outfall 002:</u>						
SWPPP						
<u>Outfall 003:</u>						
SWPPP						
<u>Outfall 004:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 & 35 IAC 302.208
Total Suspended Solids				15	30	35 IAC 304.124
Oil/Grease				15	30	35 IAC 304.124
Chromium (Total)				1	2	35 IAC 304.124
Copper (Total)					0.1347	40 CFR 122.44L
Lead (Total)				0.2	0.4	35 IAC 304.124
Nickel (Total)				1	2	35 IAC 304.124
Cyanide (Total)				0.1	0.2	35 IAC 304.124
Cadmium (Total)				0.15	0.3	35 IAC 304.124
Silver				0.1	0.2	35 IAC 304.124
Zinc (Total)				1	2	35 IAC 304.124
Total Toxic Organics					1.56	40 CFR 122.44L
BOD ₅				Monitor Only		
Manganese				Monitor Only		
Iron (Total)				Monitor Only		

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 005:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 & 35 IAC 302.208
Total Suspended Solids				15	30	35 IAC 304.124
Oil/Grease				15	30	35 IAC 304.124
Chromium (Total)				1	2	35 IAC 304.124
Copper (Total)					0.1347	40 CFR 122.44L
Lead (Total)				0.2	0.4	35 IAC 304.124
Nickel (Total)				1	2	35 IAC 304.124
Cyanide (Total)				0.1	0.2	35 IAC 304.124
Cadmium (Total)				0.15	0.3	35 IAC 304.124
Silver				0.1	0.2	35 IAC 304.124
Zinc (Total)				1	2	35 IAC 304.124
Total Toxic Organics					1.56	40 CFR 122.44L
BOD ₅				Monitor Only		
Manganese				Monitor Only		
Iron (Total)				Monitor Only		
<u>Outfall 006:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 & 35 IAC 302.208
Total Suspended Solids				15	30	35 IAC 304.124
Oil/Grease				15	30	35 IAC 304.124
Chromium (Total)				1	2	35 IAC 304.124
Copper (Total)					0.1347	40 CFR 122.44L
Lead (Total)				0.2	0.4	35 IAC 304.124
Nickel (Total)				1	2	35 IAC 304.124
Cyanide (Total)				0.1	0.2	35 IAC 304.124
Cadmium (Total)				0.15	0.3	35 IAC 304.124
Silver				0.1	0.2	35 IAC 304.124
Zinc (Total)				1	2	35 IAC 304.124
	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS mg/L		

PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
<u>Outfall 006 cont.:</u>						
Total Toxic Organics					1.56	40 CFR 122.44L
BOD ₅				Monitor Only		
Manganese				Monitor Only		
Iron (Total)				Monitor Only		

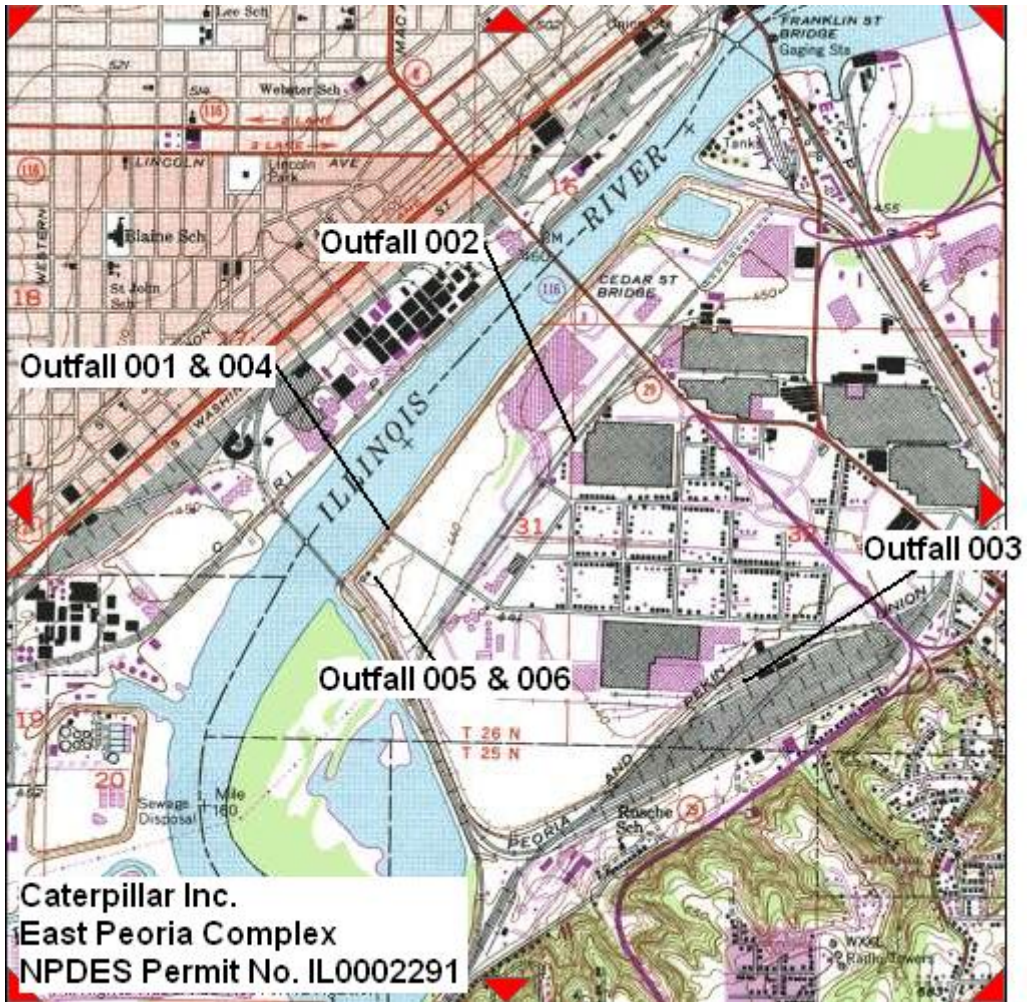
Load Limit Calculations:

- A. Load limit calculations for the following pollutant parameters were based on a design average flow of 10 MGD and a design maximum flow of 13 MGD and using the formula of design average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Total Suspended Solids, Oil/Grease, Chromium (Total), Copper (Total), Lead (Total), Nickel (Total), Cyanide (Total), Cadmium (Total), Silver, and Zinc (Total).
- B. Load limit calculations for the pollutant parameters contained in 40 CFR 433 were based on a average flow of 0.311 MGD and using the formula of average flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Total Suspended Solids, Oil/Grease, Chromium (Total), Copper (Total), Lead (Total), Nickel (Total), Cyanide (Total), Cadmium (Total), Silver, Zinc (Total), and Total Toxic Organics.

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:

The Special Conditions clarify flow, pH, Temperature, Total Residual Chlorine, Total Toxic Organics, monitoring location, discharge monitoring report submission, and stormwater.



Public Notice of Draft Permit

Public Notice Number LRL:11083102.bah is hereby given by Illinois EPA, Division of Water Pollution Control, Permit Section, 1021 North Grand Avenue East, Post Office Box 19276, Springfield, Illinois 62794-9276 (herein Agency) that a draft National Pollutant Discharge Elimination System (NPDES) Permit Number 02291 has been prepared under 40 CFR 124.6(d) for Caterpillar, Inc., 901 West Washington Street - SS6400, East Peoria, Illinois 61630 for discharge into Illinois River from the Caterpillar, Inc. - East Peoria Complex, 901 West Washington Street, East Peoria, Illinois 61630, (Tazewell County). The applicant is engaged in manufacturing and assembly of track type tractors, components, and transmissions (SIC 3531). Plant operation results in an average discharge of 1.764 MGD of treated process wastewater from outfall 001, an intermittent discharge of stormwater runoff from outfall 002, an intermittent discharge of stormwater runoff from outfall 003, an emergency discharge of industrial wastewater lagoon wastewater from outfall 004, an emergency discharge of emergency by-pass wastewater from outfall 005, and an emergency discharge of emergency by-pass wastewater from outfall 006.

The application, draft permit and other documents are available for inspection and may be copied at the Agency between 9:30 a.m. and 3:30 p.m. Monday through Friday. A Fact Sheet containing more detailed information is available at no charge. For further information, call the Public Notice Clerk at 217/782-0610.

Interested persons are invited to submit written comments on the draft permit to the Agency at the above address. The NPDES Permit and Joint Public Notice numbers must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

Any interested person may submit written request for a public hearing on the draft permit to the Agency at the above address. The NPDES Permit and joint public notice must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

If written comments and/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 30 days before any public hearing.

SAK:LRL:11083102.bah

NPDES Permit No. IL0002291

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:

Caterpillar, Inc.
901 West Washington Street - SS6400
East Peoria, Illinois 61630

Facility Name and Address:

Caterpillar, Inc. - East Peoria Complex
901 West Washington Street
East Peoria, Illinois 61630
(Tazewell County)

Discharge Number and Name:	Receiving Waters:
001 Treated Process Wastewater	Illinois River
002 Stormwater Runoff	Branch A Ditch Tributary to the Illinois River
003 Stormwater Runoff	Main Ditch Tributary to the Illinois River
004 Industrial Wastewater Lagoon	Illinois River
005 Emergency By-Pass	Branch A Ditch Tributary to the Illinois River
006 Emergency By-Pass	Main Ditch 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

SAK: LRL:11083102.bah

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges 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 – Treated Process Wastewater</u> (DAF = 10 MGD) The discharge consists of: <ol style="list-style-type: none"> 1. Metal Finishing Operations 2. Non-Contact Cooling Water 3. Reverse Osmosis Reject Wastewater 4. MVRE Distillate 5. Stormwater Runoff* 6. Cooling Tower Blowdown 7. Boiler Blowdown 8. Wastewater Treatment 9. Groundwater Treatment 10. Unreturned Condensate 						
Flow (MGD)	See Special Condition 1.				Daily	Continuous
pH	See Special Condition 2.				1/Week	Grab
Temperature	See Special Condition 3.				1/Week	Grab
Total Residual Chlorine	See Special Condition 4.			0.05	1/Week	Grab
Total Suspended Solids	194	383	15	30	1/Week	Composite
Oil/Grease	104	209	15	30	1/Week	Composite**
Chromium (Total)	4.3	7.2	1	2	1/Month	Composite
Copper (Total)		8.7		0.1347	1/Month	Composite
Lead (Total)	1.1	1.8	0.2	0.4	1/Month	Composite
Nickel (Total)	6.2	10.3	1	2	1/Month	Composite
Cyanide (Total)	1.7	3.1	0.1	0.2	1/Month	Composite
Cadmium (Total)	0.67	1.8	0.15	0.3	1/Month	Composite
Silver	0.62	1.1	0.1	0.2	1/Month	Composite
Zinc (Total)	3.8	6.7	1	2	1/Quarter	Composite
Total Toxic Organics***		5.5		1.56	1/Quarter	Composite
BOD ₅			Monitor Only		1/Month	Grab
Phenols			Monitor Only		1/Quarter	Grab
Manganese			Monitor Only		1/Quarter	Grab
Iron (Total)			Monitor Only		1/Quarter	Grab
* - See Special Condition 11. ** - See Special Condition 17. *** - See Special Conditions 18, 19, & 20.						
<u>Outfall 002 – Stormwater Runoff*</u> (Intermittent Discharge)						
* - See Special Conditions 12 and 13.						

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges 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 003 – Stormwater Runoff*</u> (Intermittent Discharge)						
* - See Special Conditions 12 and 13.						
<u>Outfall 004 – Industrial Wastewater Lagoon**</u> (Emergency Discharge)						
The discharge consists of:						
1. Metal Finishing Operations						
2. Non-Contact Cooling Water						
3. Reverse Osmosis Reject Wastewater						
4. MVRE Distillate						
5. Stormwater Runoff***						
6. Cooling Tower Blowdown						
7. Boiler Blowdown						
8. Wastewater Treatment						
9. Groundwater Treatment						
10. Unreturned Condensate						
Flow (MGD)	See Special Condition 1.				1/Day*	Measure
pH	See Special Condition 2.				1/Day*	Grab
Temperature	See Special Condition 3.				1/Day*	Grab
Total Residual Chlorine	See Special Condition 4.			0.05	1/Day*	Grab
Total Suspended Solids			15	30	1/Day*	Grab
Oil/Grease			15	30	1/Day*	Grab
Chromium (Total)			1	2	1/Day*	Grab
Copper (Total)				0.1347	1/Day*	Grab
Lead (Total)			0.2	0.4	1/Day*	Grab
Nickel (Total)			1	2	1/Day*	Grab
Cyanide (Total)			0.1	0.2	1/Day*	Grab
Cadmium (Total)			0.15	0.3	1/Day*	Grab
Silver			0.1	0.2	1/Day*	Grab
Zinc (Total)			1	2	1/Day*	Grab
Total Toxic Organics	See Special Conditions 18, 19, & 20.			1.56	1/Day*	Grab
BOD ₅			Monitor Only		1/Day*	Grab
Manganese			Monitor Only		1/Day*	Grab
Iron (Total)			Monitor Only		1/Day*	Grab
* - When Discharging.						
** - This outfall is for emergency discharge only. See Special Condition 16.						
*** - See Special Condition 11.						

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges 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		
Outfall 005 – Emergency By-Pass** (Emergency Discharge) The discharge consists of: <ol style="list-style-type: none"> 1. Metal Finishing Operations 2. Non-Contact Cooling Water 3. Reverse Osmosis Reject Wastewater 4. MVRE Distillate 5. Stormwater Runoff*** 6. Cooling Tower Blowdown 7. Boiler Blowdown 8. Wastewater Treatment 9. Groundwater Treatment 10. Unreturned Condensate 						
Flow (MGD)	See Special Condition 1.				1/Day*	Measure
pH	See Special Condition 2.				1/Day*	Grab
Temperature	See Special Condition 6.				1/Day*	Grab
Total Residual Chlorine	See Special Condition 4.			0.05	1/Day*	Grab
Total Suspended Solids			15	30	1/Day*	Grab
Oil/Grease			15	30	1/Day*	Grab
Chromium (Total)			1	2	1/Day*	Grab
Copper (Total)				0.1347	1/Day*	Grab
Lead (Total)			0.2	0.4	1/Day*	Grab
Nickel (Total)			1	2	1/Day*	Grab
Cyanide (Total)			0.1	0.2	1/Day*	Grab
Cadmium (Total)			0.15	0.3	1/Day*	Grab
Silver			0.1	0.2	1/Day*	Grab
Zinc (Total)			1	2	1/Day*	Grab
Total Toxic Organics	See Special Conditions 18, 19, & 20.			1.56	1/Day*	Grab
BOD ₅			Monitor Only		1/Day*	Grab
Manganese			Monitor Only		1/Day*	Grab
Iron (Total)			Monitor Only		1/Day*	Grab
* - When Discharging. ** - This outfall is for emergency discharge only. See Special Condition 16. *** - See Special Condition 11.						

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges 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 006 – Emergency By-Pass**</u> (Emergency Discharge)						
The discharge consists of: <ol style="list-style-type: none"> 1. Metal Finishing Operations 2. Non-Contact Cooling Water 3. Reverse Osmosis Reject Wastewater 4. MVRE Distillate 5. Stormwater Runoff*** 6. Cooling Tower Blowdown 7. Boiler Blowdown 8. Wastewater Treatment 9. Groundwater Treatment 10. Unreturned Condensate 						
Flow (MGD)	See Special Condition 1.				1/Day*	Measure
pH	See Special Condition 2.				1/Day*	Grab
Temperature	See Special Condition 6.				1/Day*	Grab
Total Residual Chlorine	See Special Condition 4.		0.05		1/Day*	Grab
Total Suspended Solids			15	30	1/Day*	Grab
Oil/Grease			15	30	1/Day*	Grab
Chromium (Total)			1	2	1/Day*	Grab
Copper (Total)				0.1347	1/Day*	Grab
Lead (Total)			0.2	0.4	1/Day*	Grab
Nickel (Total)			1	2	1/Day*	Grab
Cyanide (Total)			0.1	0.2	1/Day*	Grab
Cadmium (Total)			0.15	0.3	1/Day*	Grab
Silver			0.1	0.2	1/Day*	Grab
Zinc (Total)			1	2	1/Day*	Grab
Total Toxic Organics	See Special Conditions 18, 19, & 20.			1.56	1/Day*	Grab
BOD ₅			Monitor Only		1/Day*	Grab
Manganese			Monitor Only		1/Day*	Grab
Iron (Total)			Monitor Only		1/Day*	Grab
* - When Discharging. ** - This outfall is for emergency discharge only. See Special Condition 16. *** - See Special Condition 11.						

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.

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. For outfalls 001 and 004, this facility meets the allowed mixing criteria for thermal discharges pursuant to 35 IAC 302.102. No reasonable potential exists for the discharge to exceed thermal water quality standards. This determination is based a design maximum flow of 8.24 MGD and a maximum temperature of 75° F for the months of December – March and a temperature 90° F or less for the months of April – November. The permittee shall monitor the flow and temperature of the discharge prior to entry into the receiving water body. Monitoring results shall be reported on the monthly Discharge Monitoring Report. This permit may be modified to include formal temperature limitations should the results of the monitoring show that there is reasonable potential to exceed a thermal water quality standard. Modification of this permit shall follow public notice and opportunity for comment.

There shall be no abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions. The normal daily and seasonal temperature fluctuations which existed before the addition of heat due to other than natural causes shall be maintained.

The monthly maximum value shall be reported on the DMR form.

SPECIAL CONDITION 4. 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 5. This permit authorizes the use of water treatment additives that were requested as part of this renewal. The use of any new additives, or change in those previously approved by the Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has been approved by the Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.

SPECIAL CONDITION 6. For outfall 005 and 006, 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 7. Samples taken in compliance with the effluent monitoring requirements shall be taken prior to mixing with the discharge from the East Peoria POTW and at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 8. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 9. 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.

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SPECIAL CONDITION 10. 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 11. For outfalls 001, 004, 005, and 006, the Agency has determined that the effluent limitations in this permit constitute BAT/BCT for stormwater 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 stormwater discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated stormwater 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.

SPECIAL CONDITION 12.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act.

For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

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- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph H of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.
 2. A site map showing:
 - i. The storm water conveyance and discharge structures;
 - ii. An outline of the storm water drainage areas for each storm water discharge point;
 - iii. Paved areas and buildings;
 - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
 - vi. Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - ix. Material loading, unloading, and access areas.
 - x. Areas under items iv and ix above may be withheld from the site for security reasons.
 3. A narrative description of the following:
 - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials.
 4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 6. A summary of existing sampling data describing pollutants in storm water discharges.

Special Conditions

- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.
 - ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.
 - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.
 - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment of activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 - vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
 6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
 7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

Special Conditions

8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.
- H. Quarterly Visual Observation of Discharges - The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.
 1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.
 2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
 3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
 4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
 5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
 6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
- K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
- L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Special Conditions

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.
- O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.
- S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

- V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

SPECIAL CONDITION 13. For the purpose of this permit, the discharge from outfalls 002 and 003 are limited to stormwater, free from process and other wastewater discharges.

SPECIAL CONDITION 14. The provisions of this permit are not intended to restrict production processes or scheduling of the permittee's facilities. Rather, the provisions of this permit are only restricting the amount of pollutants that can be discharged. This condition does not supersede the standard condition of this permit.

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SPECIAL CONDITION 15. Standard Condition 12(a) only applies to planned physical alterations or additions to the permitted facility which will result in the discharge of new or different pollutants or increased levels. Special Condition 15 and standard condition 12(a) do not require Caterpillar to report day-to-day or seasonal variations of production processes or scheduling at the East Peoria Facility.

SPECIAL CONDITION 16. The diversion or bypass of any discharge from the treatment works is prohibited except (1) where unavoidable to prevent the loss of life or severe property damage, or (2) where excessive storm drainage runoff would damage any facilities necessary for compliance under the effluent limitations and prohibitions of the permit. Notification of bypasses shall be required under 40 CFR 122.41(l) and (m).

SPECIAL CONDITION 17. Composite Sampling for Oil/Grease Discharges from Outfall 001.

A mechanical composite sampler shall be used equivalent to the American Sigma Model 1600 Dipper Sampler. This device is instrumented to collect a flow proportional composite sample.

At the end of the collection period of one calendar day, the sample dipper, and receiving funnel will be rinsed with n-Hexane in order to deliver 50 ml of solvent to the oil and grease sample bottle.

The oil sample containing the n-Hexane rinsing will be properly preserved and sent to the laboratory for extraction and analysis by testing methods specified by the USEPA for oil and grease analysis.

SPECIAL CONDITION 18. The permittee may make the following certification statement in lieu of monitoring for Total Toxic Organics as defined in 40 CFR 433.11(e):

Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organic (TTO), I certify that, to the best of my knowledge and belief, no dumping or concentrated toxic organics into the wastewater has occurred since filing of the last Discharge Monitoring Report. I further certify that this facility is implementing the toxic organic pollutant management plan submitted to the Illinois EPA.

This statement is to be included as a comment on the Discharge Monitoring Report if the certification alternative is chosen.

SPECIAL CONDITION 19.

- A. On or before April 1, 1991 and on or before April 1st of each following year, permittee shall report to the Agency whether any additional toxic or hazardous substances outlined in 40 CFR 433.11(e) have the potential for discharge. An evaluation of the specified substances shall be performed as follows:
1. Permittee shall determine whether any parameters in 40 CFR 433.11(e) have the potential to be discharged from the plant, and then continually review new materials, chemicals and products used for production, maintenance and janitorial purposes at the East Peoria plant, so that the records of parameters in 40 CFR 433.11(e) brought into the plant are regularly updated.
 2. Permittee shall confer with the Agency if there is any question whether any parameters in 40 CFR 433.11(e) should be further evaluated or monitored.
 3. Permittee shall sample (24 hour composite samples, where appropriate) and analyze its effluent discharge for those parameters in 40 CFR 433.11(e) which the permittee has reason to believe may be discharged in order to comply with the reporting requirements of Paragraph (A).
 4. The permittee shall not be required to identify those parameters outlined in 40 CFR 433.11(e) as long as the certification statement of Special Condition 18 is submitted to the Agency.
- B. Performance of the above identification shall constitute compliance with the terms of this permit condition. By performing this identification, the permittee does not satisfy its obligation to perform monitoring required as part of an NPDES permit application or any other monitoring required by this NPDES permit. Permittee shall not be precluded from using data collected in satisfaction of the above identification procedure to meet requirements of the NPDES permit program or other state or federal law, if applicable.

Special Conditions

SPECIAL CONDITION 20. Total Toxic Organic Pollutant Management Plan

- A. Facility material usage records were evaluated for Total Toxic Organics. The following Toxic Organic Pollutants were determined to be present in the Plant:

Toluene
Benzene
Ethylbenzene
Naphthalene
Dibutyl phthalate
Diethyl phthalate

- B. The following TTO's are stored on site in either underground or aboveground storage tanks and are used for fueling facility vehicles (benzene in gasoline) or tractors produced on our assembly line (naphthalene in diesel fuel):

Benzene
Naphthalene
Ethylbenzene
Toluene

- C. The following TTO's are used in paints, thinners at the facility. These solvents are generally evaporated to the atmosphere during use. Wastes are disposed of as RCRA Hazardous Wastes through Caterpillar approved waste contractors. Non-volatile TTO's (diethyl phthalate) do not have the opportunity to come into contact with wastewater:

Toluene
Ethylbenzene
Naphthalene
Diethyl phthalate

- D. The following are used in sealants and adhesives at the facility. These products do not come into contact with wastewater.

Dibutyl phthalate
Diethyl phthalate

- E. The following are used in industrial greases at the facility. A significant portion of these materials are used in our finished product and are shipped off-site. Materials used in machine tools would not typically come into contact with wastewater. Additionally, the solvents are evaporated to the atmosphere during use

Ethylbenzene
Naphthalene

- F. All the PCB's in the plant are contained in capacitors and light ballasts which will be disposed of in accordance with the applicable regulation of, when applicable 40 CFR 761.