

NPDES Permit Rating Sheet

NPDES No.: AR0051454
 Facility Name: Caterpillar Inc. - North American Motor Grader Facility
 City: North Little Rock
 Receiving water(s): unnamed ditch, thence into Faulkner Lake, thence Plum Bayou, thence into the Arkansas River
 Phone Number: 501-955-5250

- Regular Addition
- Discretionary Addition
- Score Change, but no status change
- Deletion

Is this facility a stream electric power plant (SIC= 4911) with one or more of the following characteristics?

1. Power output 500 MW or greater? (Not using a cooling pond/lake) N/A
2. A nuclear power plant N/A
3. Cooling water discharge greater than 25% of the Receiving stream's 7Q10 flow rate

Is this Permit for a municipal separate storm sewer serving a population greater than 100,000?

- Yes, Score is 700 (Stop here)
- No (Continue)

- Yes, Score is 600 (stop here)
- No (Continue)

Factor 1: Toxic Pollutant Potential

PCS SIC Code: 3531 Primary SIC Code: 3531
 Other SIC Code: _____ NAICS: 333120
 Industrial Subcategory Code: _____ (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one.

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input checked="" type="checkbox"/> NPWS*	0	00	<input type="checkbox"/> 3.	3	15	<input type="checkbox"/> 7.	7	35
<input type="checkbox"/> 1.	1	05	<input type="checkbox"/> 4.	4	20	<input type="checkbox"/> 8.	8	40
<input type="checkbox"/> 2.	2	10	<input type="checkbox"/> 5.	5	25	<input type="checkbox"/> 9.	9	45
*No process Waste Stream			<input type="checkbox"/> 6.	6	30	<input type="checkbox"/> 10.	10	50

Code Number Checked: 0
 Total Points Factor 1: 00

Factor 2: Flow/Stream Flow Volume (Complete either Section A or Section B; check only one)

Section A-Wastewater Flow Only Considered

Wastewater Type (see instruction)	Code	Points
Type I:		
Flow <5 MGD	<input type="checkbox"/> 11	00
Flow 5 to 10 MGD	<input type="checkbox"/> 12	10
Flow >10 to 50 MGD	<input type="checkbox"/> 13	20
Flow >50 MGD	<input type="checkbox"/> 14	30
Type II:		
Flow <1 MGD	<input type="checkbox"/> 21	10
Flow 1 to 5 MGD	<input type="checkbox"/> 22	20
Flow >5 to 10 MGD	<input type="checkbox"/> 23	30
Flow >10 MGD	<input type="checkbox"/> 24	50
Type III:		
Flow <1 MGD	<input checked="" type="checkbox"/> 31	00
Flow 1 to 5 MGD	<input type="checkbox"/> 32	10
Flow >5 to 10 MGD	<input type="checkbox"/> 33	20
Flow >10 MGD	<input type="checkbox"/> 34	30

Section B-Wastewater and Stream Flow Considered

Wastewater Type (See instruction)	% of instream Wastewater Concentration at Receiving stream low flow	Code	Points
Type I/III:	<10%	<input type="checkbox"/> 41	00
	>=10% to <50%	<input type="checkbox"/> 42	10
	>=50%	<input type="checkbox"/> 43	20
Type II:	<10%	<input type="checkbox"/> 51	00
	>=10% to <50%	<input type="checkbox"/> 52	20
	>=50%	<input type="checkbox"/> 53	30

Code Number Checked:
 Total Points Factor 2:

31
00

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Factor 3: Conventional Pollutants (Only when limited by the permit)

A. Oxygen Demanding Pollutant: (Check one) BOD COD Other

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: 1
Points Checked: 0

B. Total Suspended Solids (TSS)

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: 1
Points Checked: 0

C. Nitrogen Pollutant: (Check One) Ammonia Other:

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: 1
Points Checked: 0

Total Points Factor 3: 0

Factor 4: Public Health Impact

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include filtration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

- Yes (If yes, check toxicity potential number below)
 No (If no, go to factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column-check one below)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input checked="" type="checkbox"/> NPWS*	0	00	<input type="checkbox"/> 3.	3	00	<input type="checkbox"/> 7.	7	15
<input type="checkbox"/> 1.	1	00	<input type="checkbox"/> 4.	4	00	<input type="checkbox"/> 8.	8	20
<input type="checkbox"/> 2.	2	00	<input type="checkbox"/> 5.	5	05	<input type="checkbox"/> 9.	9	25
			<input type="checkbox"/> 6.	6	10	<input type="checkbox"/> 10.	10	30

*No process Waste Stream

Code Number Checked: 0
Total Points Factor 4: 00

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Factor 5: Water Quality Factors

A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?

	Code	Points
<input checked="" type="checkbox"/> Yes	1	10
<input type="checkbox"/> No	2	00

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
<input checked="" type="checkbox"/> Yes	1	00
<input type="checkbox"/> No	2	05

C. Does the effluent discharged from this facility exhibit reasonable potential to violate water quality standards due to whole effluent toxicity?

	Code	Points
<input type="checkbox"/> Yes	1	10
<input checked="" type="checkbox"/> No	2	00

Code Number Checked: A 2 B 1 C 2
Points Factor 5: A 10 + B 0 + C 0 = 10 Total

Factor 6: Proximity to Near Coastal Waters

A. Base Score: Enter flow code here (From Factor 2): n/a Enter the multiplication factor that corresponds to the flow code: n/a

Check appropriate facility HPRI Code (from PCS):

	HPRI #	Code	HPRI Score	Flow Code	Multiplication Factor
<input type="checkbox"/>	1	1	20	11, 31, or 41	.00
<input type="checkbox"/>	2	2	00	12, 32, or 42	.05
<input type="checkbox"/>	3	3	30	13, 33, or 43	.10
<input type="checkbox"/>	4	4	00	14 or 34	.15
<input type="checkbox"/>	5	5	20	21 or 51	.10
				22 or 52	.30
				23 or 53	.60
				24	1.00

HPRI Code Checked:

Base Score: (HPRI Score) x (Multiplication Factor) = Total Points

B. Additional Points- NEP Program - n/a

For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (See instructions) or the Chesapeake Bay?

	Code	Points
<input type="checkbox"/> Yes	1	10
<input type="checkbox"/> No	2	00

C. Additional Points-Great Lakes Area of Concern for a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (See instruction) - n/a

	Code	Points
<input type="checkbox"/> Yes	1	10
<input type="checkbox"/> No	2	00

Code Number Checked: A B C
Points Factor 6: A + B + C = Total

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AFIN: 60-01529

Score Summary

Factor	Description	Total Points
1	Toxic Pollutant Potential	<u>0</u>
2	Flow/Stream Flow Volume	<u>0</u>
3	Conventional Pollutants	<u>0</u>
4	Public Health Impacts	<u>0</u>
5	Water Quality Factors	<u>10</u>
6	Proximity to Near Coastal Waters	<u>n/a</u>
	Total (Factor 1 through 6)	<u>10</u>

S1. Is the total score equal to or greater than 80?

Yes (facility is a major) No

S2. If the answer to the above question is no, would you like this facility to be discretionary major?

No

Yes (Add 500 points to the above score and provide reason below):

Reason:

New Score: 10

Old Score:

Permit Reviewer's Name Jennifer Harmon

Phone Number 501-682-0627

Date 01/19/2010

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Grader Facility

City: North Little Rock

Receiving water(s): unnamed ditch, thence into
Faulkner Lake, thence Plum Bayou, thence into the
Arkansas River

Phone Number: 501-955-5250

Is this facility a stream electric power plant (SIC= 4911) with one or more of the following characteristics?

1. Power output 500 MW or greater?
(Not using a cooling pond/lake) N/A

2. A nuclear power plant N/A

3. Cooling water discharge greater than 25% of the Receiving stream's 7Q10 flow rate

Yes, Score is 600 (stop here)

No (Continue)

- Regular Addition
- Discretionary Addition
- Score Change, but no status change
- Deletion

Is this Permit for a municipal separate storm sewer serving a population greater than 100,000?

Yes, Score is 700 (Stop here)

No (Continue)

Factor 1: Toxic Pollutant Potential

PCS SIC Code: 3531 Primary SIC Code: 3531

Other SIC Code: _____ NAICS: 333120

Industrial Subcategory Code: ____ (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one.

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input checked="" type="checkbox"/> NPWS*	0	00	<input type="checkbox"/> 3.	3	15	<input type="checkbox"/> 7.	7	35
<input type="checkbox"/> 1.	1	05	<input type="checkbox"/> 4.	4	20	<input type="checkbox"/> 8.	8	40
<input type="checkbox"/> 2.	2	10	<input type="checkbox"/> 5.	5	25	<input type="checkbox"/> 9.	9	45
*No process Waste Stream			<input type="checkbox"/> 6.	6	30	<input type="checkbox"/> 10.	10	50

Code Number Checked: 0

Total Points Factor 1: 00

Factor 2: Flow/Stream Flow Volume (Complete either Section A or Section B; check only one)

Section A-Wastewater Flow Only Considered

Wastewater Type	Code	Points
(see instruction)		

Type I:	Flow <5 MGD	<input type="checkbox"/>	11	00
	Flow 5 to 10 MGD	<input type="checkbox"/>	12	10
	Flow >10 to 50 MGD	<input type="checkbox"/>	13	20
	Flow >50 MGD	<input type="checkbox"/>	14	30
Type II:	Flow <1 MGD	<input type="checkbox"/>	21	10
	Flow 1 to 5 MGD	<input type="checkbox"/>	22	20
	Flow >5 to 10 MGD	<input type="checkbox"/>	23	30
	Flow >10 MGD	<input type="checkbox"/>	24	50
Type III:	Flow <1 MGD	<input checked="" type="checkbox"/>	31	00
	Flow 1 to 5 MGD	<input type="checkbox"/>	32	10
	Flow >5 to 10 MGD	<input type="checkbox"/>	33	20
	Flow >10 MGD	<input type="checkbox"/>	34	30

Section B-Wastewater and Stream Flow Considered

Wastewater Type	% of instream Wastewater Concentration at Receiving stream low flow	Code	Points
(See instruction)			

Type I/III:	<10%	<input type="checkbox"/>	41	00
	>=10% to <50%	<input type="checkbox"/>	42	10
	>=50%	<input type="checkbox"/>	43	20
Type II:	<10%	<input type="checkbox"/>	51	00
	>=10% to <50%	<input type="checkbox"/>	52	20
	>=50%	<input type="checkbox"/>	53	30

Code Number Checked:

31

Total Points Factor 2:

00

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Factor 3: Conventional Pollutants (Only when limited by the permit)

A. Oxygen Demanding Pollutant: (Check one) BOD COD Other

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: n/a |
Points Checked: n/a | 0

B. Total Suspended Solids (TSS)

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: n/a |
Points Checked: n/a | 0

C. Nitrogen Pollutant: (Check One) Ammonia Other:

Permit Limits: (Check One)

	Code	Points
<input checked="" type="checkbox"/> Nitrogen Equivalent <100 lbs/day	1	00
<input type="checkbox"/> 100 to 1000 lbs/day	2	05
<input type="checkbox"/> >1000 to 3000 lbs/day	3	15
<input type="checkbox"/> >3000 lbs/day	4	20

Code Checked: n/a |
Points Checked: n/a | 0

Total Points Factor 3: 0

Factor 4: Public Health Impact

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include filtration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

- Yes (If yes, check toxicity potential number below)
 No (If no, go to factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column-check one below)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input checked="" type="checkbox"/> NPWS*	0	00	<input type="checkbox"/> 3.	3	00	<input type="checkbox"/> 7.	7	15
<input type="checkbox"/> 1.	1	00	<input type="checkbox"/> 4.	4	00	<input type="checkbox"/> 8.	8	20
<input type="checkbox"/> 2.	2	00	<input type="checkbox"/> 5.	5	05	<input type="checkbox"/> 9.	9	25
			<input type="checkbox"/> 6.	6	10	<input type="checkbox"/> 10.	10	30

*No process Waste Stream

Code Number Checked: 0
Total Points Factor 4: 00

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A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?

	Code	Points
<input checked="" type="checkbox"/> Yes	1	10
<input checked="" type="checkbox"/> No	2	00

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
<input checked="" type="checkbox"/> Yes	1	00
<input type="checkbox"/> No	2	05

C. Does the effluent discharged from this facility exhibit reasonable potential to violate water quality standards due to whole effluent toxicity?

	Code	Points
<input type="checkbox"/> Yes	1	10
<input checked="" type="checkbox"/> No	2	00

Code Number Checked: A 2 B 1 C 2
Points Factor 5: A10 + B0 + C0 = 10 Total

Factor 6: Proximity to Near Coastal Waters

A. Base Score: Enter flow code here (From Factor 2): n/a Enter the multiplication factor that corresponds to the flow code: n/a

Check appropriate facility HPRI Code (from PCS):

	HPRI #	Code	HPRI Score	Flow Code	Multiplication Factor
<input type="checkbox"/>	1	1	20	11, 31, or 41	.00
<input type="checkbox"/>	2	2	00	12, 32, or 42	.05
<input type="checkbox"/>	3	3	30	13, 33, or 43	.10
<input type="checkbox"/>	4	4	00	14 or 34	.15
<input type="checkbox"/>	5	5	20	21 or 51	.10
				22 or 52	.30
				23 or 53	.60
				24	1.00

HPRI Code Checked:
Base Score: (HPRI Score) x (Multiplication Factor) = Total Points

B. Additional Points- NEP Program - n/a
For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (See instructions) or the Chesapeake Bay?

	Code	Points
<input type="checkbox"/> Yes	1	10
<input type="checkbox"/> No	2	00

C. Additional Points-Great Lakes Area of Concern for a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (See instruction) - n/a

	Code	Points
<input type="checkbox"/> Yes	1	10
<input type="checkbox"/> No	2	00

Code Number Checked: A B C
Points Factor 6: A + B + C = Total

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Score Summary

Factor	Description	Total Points
1	Toxic Pollutant Potential	<u>0</u>
2	Flow/Stream Flow Volume	<u>0</u>
3	Conventional Pollutants	<u>n/a</u>
4	Public Health Impacts	<u>0</u>
5	Water Quality Factors	<u>0</u>
6	Proximity to Near Coastal Waters	<u>n/a</u>
	Total (Factor 1 through 6)	<u>0</u>

S1. Is the total score equal to or greater than 80?

Yes (facility is a major) No

S2. If the answer to the above question is no, would you like this facility to be discretionary major?

No

Yes (Add 500 points to the above score and provide reason below):

Reason:

New Score: 10

Old Score:

Permit Reviewer's Name Jennifer Harmon

Phone Number 501-682-0627

Date 01/19/2010