EPA Region 5 Records Ctr.
201027

ATTACHMENT 7

CITY OF KALAMAZOO, MICHIGAN

December 28, 1981

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Data Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the fourth quarter report for 1981 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System.

If you have any questions regarding this report, please let us know.

Sincerely,

R. G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

RGS:pd
Enclosures
cc: File

DEPARTMENT OF PUBLIC WORKS-WASTEWATER DIVISION, 1415 North Harrison, 49007, 616-385-8157

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, WW Superintendent Date 12-23-81

From Jean Eldred, Industrial Surveillance Technician J Eldred

Regarding 4th Quarter Industrial Surveillance Activities, 1981

1) Work is continuing on the Industrial Pretreatment Program. The Master Plan has been written by our Consulting Engineers, Greeley & Hansen, and submitted to the DNR. The Nondomestic User Survey has been mailed; completed forms are being received daily.

2) Composite samples were taken at the following industries: Kalsec, Kalamazoo Creamery, Be-Mo Foods, Cadillac Overall, Continental Linen Services and Laboratory Research Enterprises.

3) National Gypsum has stopped production indefinitely.

4) Total surcharges assessed, fourth quarter:

MONTH	BOD	COD	TSS
September	70,708.43	181.08	29,810.65
October	57,532.09	288.56	18,559.39
November	58,642.67	244.23	18,033.13
TOTALS	$181,833.19	$713.87	$66,403.17

GRAND TOTAL: $249,000.23

JE:pd
cc: File

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

			Type	Quantity	Units
3. Principal Product or Raw Materials (See Instructions)	Product	403a	Paper Products	403c ____	403e ____
	Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 5601 cubic meters per day
404b ____ Intermittent ____ X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 ____ X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

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Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous. 404a 28,143.8 cubic meters per day

404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405

x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	209 mg/ℓ	396.8 mg/ℓ	145 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type		Quantity		Units
Product	403a	Paper Ton/Prod.	403c	360	403e	0-1
Raw Material	403b		403d		403f	

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 4398.0 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	547 mg/ℓ	582.5 mg/ℓ	150 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	National Gypsum Company, Gold Bond BG Products Division
Street:	401b	2305 Kings Highway
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 3275 (Gypsum Wall Bond)

3. Principal Product or Raw Materials
(See Instructions)

		Type	Quantity	Units
Product	403a	Gypsum	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 415.0 cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.1 7.4	410 mg/ℓ	1126.5 mg/ℓ	379 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

March 24, 1982

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Data Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the first quarterly report for 1982 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System.

If you have any questions regarding this report, please let us know.

Sincerely,

R. G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

RGS:pd
Enclosures
cc: File

DEPARTMENT OF PUBLIC WORKS-WASTEWATER DIVISION, 1415 North Harrison, 49007, 616-385-8157

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, WW Superintendent Date 3-24-82

From Jean Eldred, Industrial Surveillance Technician Jeldred

Regarding Industrial Surveillance Quarterly Report

1) Work on the Industrial pretreatment program is progressing. The Non-domestic User Survey is nearing completion. The pilot plant will be on line soon.

2) Composite samples were taken at Eckrich and grab samples were taken at Durametallic and Savage Rowe Plating.

3) Total surcharges for first quarter:

BOD	182,733.84
COD	939.31
TSS	58,703.54
TOTAL	243,495.67

JE:pd
cc: File

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Name of Organization Responsible for Facility

Kalamazoo, City of

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1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 3989.2 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type		Quantity		Units
Product	403a	Paper Ton/Prod.	403c	235+	403e	J-1
Raw Material	403b		403d		403f	

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 24,829.7 cubic meters per day
404b ____ Intermittent ____ x ____ Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	253.7 mg/ℓ	396.8 mg/ℓ	178.6 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 4929.2 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	505.6 mg/ℓ	582.5 mg/ℓ	169.1 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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1. Major Contributing Facility:
(See Instructions)

Name:	401a	National Gypsum Company, Gold Bond BG Products Division
Street:	401b	2305 Kings Highway
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 3275 (Gypsum Wall Bond)

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Gypsum	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a Down cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.1 7.4	410 mg/ℓ	1126.5 mg/ℓ	379 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

June 24, 1982

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Water Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the second quarterly report for 1982 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System.

If you have any questions regarding this report, please let us know.

Sincerely,

Richard G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

RGS:pd
Enclosures
cc: File

DEPARTMENT OF PUBLIC WORKS-WASTEWATER DIVISION 1415 North Harrison 49007 616 385 8157

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, Wastewater Superintendent Date 6-24-82

From Jack A. Wagemaker, Wastewater Collection System Supervisor

Jack A. Wagemaker

Regarding Industrial Surveillance Quarterly Report

1) The Industrial Pretreatment Program is progressing. The pilot plant is in operation and priority pollutants will be added soon.

2) Sampling was done at the Eckrich Company on one of their minor outfalls.

3) Total surcharges for the second quarter of 1982 were:

BOD_5	$145,778.74
COD	2,645.70
TSS	52,455.03
TOTAL	$200,879.47

JAW:pd
cc: File

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(See Instructions)

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Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 5169.0 cubic meters per day
404b ____ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

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(See Instructions)

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County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 34,741.8 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	259.7 mg/ℓ	396.8 mg/ℓ	198.9 mg/ℓ				

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(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 6,849.5 cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	501.1 mg/ℓ	582.5 mg/ℓ	1556 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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(See Instructions)

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Street:	401b	2305 Kings Highway
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 3275 (Gypsum Wall Bond)

3. Principal Product or Raw Materials
(See Instructions)

		Type	Quantity	Units
Product	403a	Gypsum	403c ____	403e ____
Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.

404a Down ____ cubic meters per day

404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405

x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.1 7.4	410 mg/ℓ	1126.5 mg/ℓ	379 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

September 27, 1982

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Water Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the third quarterly report for 1982 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System.

If you have any questions regarding this report, please let us know.

Sincerely,

Richard G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

RGS:pd
Attachments
cc: File

DEPARTMENT OF PUBLIC WORKS, DIVISION OF SEWERS, 1415 N. HARRISON, KALAMAZOO, MI 49007 385-8220

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, WW Superintendent Date 9-27-82

From Jean Eldred, Industrial Surveillance Technician JEldred

Regarding Third Quarter, Industrial Surveillance Activities

1) The following accounts were sampled during the third quarter:

   1) Laboratory Research Enterprises
   2) Cadillac Overall Supply
   3) Continental Linen
   4) Kalsec

2) Cadillac Overall and Continental Linen have grease and oil concentrations in excess of 100 mg/l.

3) Kalamazoo Container is in the process of installing a monitoring manhole.

4) Greeley and Hansen, Engineers have submitted a preliminary draft of the Industrial Pretreatment Program to us (City of Kalamazoo)

5) The following surcharges were assessed during the third quarter:

	BOD	COD	TSS	TOTAL
June	$48,004.73	$637.22	$13,049.49	$61,691.44
July	33,124.34	667.02	18,722.57	52,513.93
Aug.	53,217.50	708.51	16,334.10	70,260.11
			Grand Total	$184,465.48

JE:pd
cc; File

FORM MI-8

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Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c ____	403e ____
Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.

404a 5375.0 m3/day cubic meters per day

404b ____ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405

X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 25,478.0 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	254 mg/ℓ	396.8 mg/ℓ	262 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 3898.6 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	410 mg/ℓ	582.5 mg/ℓ	138 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	National Gypsum Company, Gold Bond BG Products Division
Street:	401b	2305 Kings Highway
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 3275 (Gypsum Wall Bond)

3. Principal Product or Raw Materials
(See Instructions)

		Type	Quantity	Units
Product	403a	Gypsum	403c ____	403e ____
Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a Down cubic meters per day
404b ____ Intermittent ____ X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.1 7.4	410 mg/ℓ	1126.5 mg/ℓ	379 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

December 28, 1982

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Water Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the fourth quarterly report for 1982 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

R G Simms

Richard G. Simms, P.E.,
Wastewater Superientendent

RGS:jj
Attachments
cc: File

DEPARTMENT OF PUBLIC WORKS-WASTEWATER DIVISION 1415 North Harrison 49007 616-385 8157

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, WW Superintendent Date 12-27-82

From Jean Eldred, Industrial Surveillance Technician je

Regarding 4th Quarterly Report - 1982

1) It was discovered that several pages were erroneously omitted from both the second and third quarterly reports. To correct this omission, enclosed along with this report are the pages that should have been included. They are separated by quarter for easier identification. To prevent this from reoccurring, the pages will be indexed and numbered in the future.

2) Several new industries are being added this quarter as a result of the IPP. Attached is a table identifying them.

3) Some industries which have been considered significant in the past may now prove to be insignificant. Although they are being included in this report, further investigation may indicate that they can be dropped from this report. A table of these industries is also attached.

4) The 1983 budget contains allotment for us to purchase additional monitoring and safety equipment.

5) We are beginning to collect samples for metals analysis by our laboratory. The background levels obtained will aid us in our future monitoring determinations.

6) Total surcharges assessed during the 4th quarter of 1982 are:

	BOD	COD	TSS	TOTAL
Sept.	56,469.57	759.87	25,742.62	$82,972.06
Oct.	68,047.05	860.22	24,691.04	93,598.31
Nov.	79,420.41	536.98	19,199.39	99,156.78
			Grand Total	$275,727.15

JE:pd
Enclosure
cc: File

NEW ADDITIONS TO QUARTERLY REPORT

1. Doubleday Brothers & Company
2. Fabri-Kal
*3. Inmont Corporation - Parchment
4. Kalamazoo Color Lab
*5. Kalamazoo Spring Company - Portage
6. Mead Products
7. Merchant Publishing
8. Oliver and Tobias
9. Precision Heat Treating
10. Type of Southwest Michigan
11. Upjohn Company - Henrietta Street
*12. Upjohn Company - Richland

*Not in Kalamazoo

INDUSTRIES WHICH MAY BE DROPPED FROM REPORT AFTER FURTHER INVESTIGATION

1. Culligan
2. Brundage Company
3. Michigan Colorplate Company, Division Kalamazoo Label
4. Morren's Meat and Poultry
5. National Gypsum Company
6. Roelof Dairy, Incorporated
7. Savage Plating and Anodizing
8. Schafer Bakeries, Incorporated
9. Zurn Industries
10. Kalamazoo Stamping & Die
11. Dispo-So Products (formerly Saniwax)

ERRONEOUSLY OMITTED IN SECOND QUARTERLY REPORT-1982

1. Borgess
2. Bowers Manufacturing Company
3. Cadillac Overall
4. Clausing
5. Continental Linen
6. Eaton
7. Fisher Body
8. General Printing Ink
9. Harrison Packaging
10. Hercules Incorporated
11. KTS Industries
12. Kalamazoo Container
13. Kalamazoo Creamery
14. Kalamazoo Regional Psychiatric Hospital
15. Kalamazoo Stamping & Die
16. Keene Corporation
17. National Products Company
18. Dispo-So Products, Incorporated (formerly Saniwax)
19. C.R. Industries, Speareflex (formerly Shakespeare)

ERRONEOUSLY OMITTED IN THIRD QUARTERLY REPORT-1982

1. Borgess Hospital
2. Bowers Manufacturing Company
3. Cadillac Overall
4. Clausing
5. Continental Linen
6. Durametallic
7. Eaton Corporation
8. Fisher Body
9. General Printing Ink
10. Harrison Packing
11. Hercules Incorporated
12. KTS Industries
13. Kalamazoo Container
14. Kalamazoo Creamery
15. Kalamazoo Radiology, P.C.
16. Kalamazoo Regional Psychiatric Hospital
17. Kalamazoo Stamping & Die
18. Keene Corporation
19. LSI/Kala
20. National Products Company
21. Dispo-So Products, Incorporated (formerly Saniwax)
22. C.R. Industries, Speareflex (formerly Shakespeare)

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. Be-Mo Potato Chip Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Cadillac Overall Supply Company
12. Checker Motors Corporation
13. Clausing Corporation
14. Continental Linen
15. Culligan Water Conditioning
16. Dispo-So Products, Incorporated
17. Doubleday Brothers & Company
18. Durametallic Corporation
19. Eaton Corporation
20. Peter Eckrich & Sons, Incorporated
21. Fabri-Kal
22. Fisher Body
23. General Printing Ink
24. Georgia Pacific Corporation
25. Gibson, Incorporated
26. Harrison Packing Company
27. Hercules, Incorporated
28. Inmont Corporation
29. James River Corporation
30. KTS Industries
31. Kalamazoo Color Lab
32. Kalamazoo Container
33. Kalamazoo Creamery
34. Kalamazoo Radiology
35. Kalamazoo Regional Psychiatric Hospital
36. Kalamazoo Spring Company
37. Kalamazoo Stamping & Die Company
38. Kalsec, Incorporated
39. Keene Corporation
40. LSI/Kala Incorporated
41. Laboratory Research Enterprises
42. Lakeside Refining Company
43. Mastercraft Corporation
44. Mead Products
45. Merchant Publishing Company
46. Michigan Colorplate Division of Kalamazoo Label
47. Morren's Meat & Poultry
48. National Gypsum
49. National Products Company
50. National Waterlift

NON-DOMESTIC USER INDEX

51. Oliver & Tobias, Incorporated
52. Port City Paints
53. Precision Heat Treating
54. Roberts Consolidated
55. Roelof Dairy, Incorporated
56. Savage Plating & Anodizing
57. Savage-Rowe Plating Company, Incorporated
58. Schafer Bakeries, Incorporated
59. Sinclair & Valentine
60. A.M. Todd Company
61. Type of Southwest Michigan
62. Union-Camp
63. The Upjohn Company - Portage Road
64. The Upjohn Company - Richland
65. The Upjohn Company - Henrietta
66. Walgreen Laboratories, Incorporated
67. Zurn Industries, Incorporated.

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 6726.0 cubic meters per day
404b ____ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 27,754.8 cubic meters per day
404b ____ Intermittent x Continuou

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	268.2 mg/ℓ	396.8 mg/ℓ	333.6 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 4,124.7 cubic meters per day
404b ___ Intermittent ___ Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
___ Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	420 mg/ℓ	582.5 mg/ℓ	168 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	National Gypsum Company, Gold Bond BG Products Division
Street:	401b	2305 Kings Highway
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 3275 (Gypsum Wall Bond)

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Gypsum	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a Down cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 ___ Yes X No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.1 7.4	410 mg/ℓ	1126.5 mg/ℓ	379 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

March 23, 1983

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Water Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the first quarter report for 1983 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

R. G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

j

attach

c File

DEPARTMENT OF PUBLIC UTILITIES, Wastewater Division
1415 N. Harrison, Kalamazoo, Michigan 49007 • (616) 385-8157

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, Wastewater Superintendent

Date 3/22/83

From Jean Eldred, Industrial Surveillance Technician JEldred

Regarding First Quarter Surveillance Activities

1) We are dropping 5 accounts from the report:
   a) Michigan Colorplate - decreased production
   b) National Gypsum - shut down
   c) Savage Plating and Anodizing - out of business
   d) Saniwax (Dispos-O-Products) - no production (now office spaces/warehouses)
   e) Roelof Dairy - decreased production

2) The following accounts were sampled during this quarter:
   a) Laboratory Research Enterprises
   b) Kalamazoo Creamery
   c) Cadillac Overall
   d) BeMo Foods
   e) Kalsec
   f) Kalamazoo Container

3) Copies of the IPP Final Report have been distributed to the governmental units and major industries.

4) Our gas chromatograph should be on line soon, which will enable us to begin analyzing for organics.

j

attach

c ✓R. Simms
J. Eldred
J. Wagemaker
R. Courchaine
File

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chio Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Cadillac Overall Supply Company
12. Checker Motors Corporation
13. Clausing Corporation
14. Continental Linen
15. Culligan Water Conditioning
16. Doubleday Brothers & Company
17. Durametallic Corporation
18. Eaton Corporation
19. Peter Eckrich & Sons, Incorporated
20. Fabri-Kal
21. Fisher Body
22. General Printing Ink
23. Georgia Pacific Corporation
24. Gibson, Incorporated
25. Harrison Packing Company
26. Hercules, Incorporated
27. Inmont Corporation
28. James River Corporation
29. KTS Industries
30. Kalamazoo Color Lab
31. Kalamazoo Container
32. Kalamazoo Creamery
33. Kalamazoo Radiology
34. Kalamazoo Regional Psychiatric Hospital
35. Kalamazoo Spring Company
36. Kalamazoo Stamping & Die Company
37. Kalsec, Incorporated
38. Keene Corporation
39. LSI/Kala Incorporated
40. Laboratory Research Enterprises
41. Lakeside Refining Company
42. Mastercraft Corporation
43. Mead Production
44. Merchant Publishing Company
45. Morren's Meat & Poultry
46. National Products Company
47. National Waterlift
48. Oliver & Bobias, Incorporated
49. Port City Paints
50. Precision Heat Treating

NON-DOMESTIC USER INDEX

51. Roberts Consolidates
52. Savage-Rowe Plating Company, Incorporated
53. Schafer Bakeries, Incorporated
54. Sinclair & Valentine
55. A.M. Todd Company
56. Type of Southwest Michigan
57. Union-Camp
58. The Upjohn Company - Portage Road
59. The Upjohn Company - Richland
60. The Upjohn Company - Henrietta
61. Walgreen Laboratories, Incorporated
62. Zurn Industries, Incorporated

FORM MI-8

NPDES PERMIT NO.
MI 0023299

1

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c ___	403e ___
Raw Material	403b	___	403d ___	403f ___

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 5248.0 cubic meters per day
404b ___ Intermittent X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 25,870 cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	277.0 mg/ℓ	396.8 mg/ℓ	240.0 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 5,758.0 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	488 mg/ℓ	582.5 mg/ℓ	175 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, Wastewater Superintendent Date 6-23-83

From Jean Eldred, Industrial Surveillance Technician J Eldred

Regarding Industrial Surveillance Second Quarter Activities

1) Kalamazoo Metal Finishers, a new account, is scheduled to begin operating in July 1983.

2) The following accounts were sampled during the second quarter:

   a) Peter Eckrich & Sons, Incorporated
   b) Bemo Foods
   c) Laboratory Research Enterprises
   d) National Water Lift (waste soluble oils).

3) I attended the Annual Industrial Wastes Conference and Purdue.

d

c File

CITY OF KALAMAZOO, MICHIGAN

June 27, 1983

Mr. Robert J. Courchaine, Chief Engineer
Water Quality Division
Michigan Water Resources Commission
Stevens T. Mason Building
Lansing, Michigan 48904

Dear Mr. Courchaine:

Please find enclosed the second quarter report for 1983 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

R. G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

j

attach

c File

DEPARTMENT OF PUBLIC UTILITIES, Wastewater Division

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, Wastewater Superintendent Date 6-23-83

From Jean Eldred, Industrial Surveillance Technician J Eldred

Regarding Industrial Surveillance Second Quarter Activities

1) Kalamazoo Metal Finishers, a new account, is scheduled to begin operating in July 1983.

2) The following accounts were sampled during the second quarter:

   a) Peter Eckrich & Sons, Incorporated
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   d) National Water Lift (waste soluble oils).

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d

c File

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chio Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Cadillac Overall Supply Company
12. Checker Motors Corporation
13. Clausing Corporation
14. Continental Linen
15. Culligan Water Conditioning
16. Doubleday Brothers & Company
17. Durametallic Corporation
18. Eaton Corporation
19. Peter Eckrich & Sons, Incorporated
20. Fabri-Kal
21. Fisher Body
22. General Printing Ink
23. Georgia Pacific Corporation
24. Gibson, Incorporated
25. Harrison Packing Company
26. Hercules, Incorporated
27. Inmont Corporation
28. James River Corporation
29. KTS Industries
30. Kalamazoo Color Lab
31. Kalamazoo Container
32. Kalamazoo Creamery
33. Kalamazoo Radiology
34. Kalamazoo Regional Psychiatric Hospital
35. Kalamazoo Spring Company
36. Kalamazoo Stamping & Die Company
37. Kalsec, Incorporated
38. Keene Corporation
39. LSI/Kala Incorporated
40. Laboratory Research Enterprises
41. Lakeside Refining Company
42. Mastercraft Corporation
43. Mead Production
44. Merchant Publishing Company
45. Morren's Meat & Poultry
46. National Products Company
47. National Waterlift
48. Oliver & Bobias, Incorporated
49. Port City Paints
50. Precision Heat Treating

NON-DOMESTIC USER INDEX

51. Roberts Consolidates
52. Savage-Rowe Plating Company, Incorporated
53. Schafer Bakeries, Incorporated
54. Sinclair & Valentine
55. A.M. Todd Company
56. Type of Southwest Michigan
57. Union-Camp
58. The Upjohn Company - Portage Road
59. The Upjohn Company - Richland
60. The Upjohn Company - Henrietta
61. Walgreen Laboratories, Incorporated
62. Zurn Industries, Incorporated

FORM MI-8

NPDES PERMIT NO.
MI 0023299

1

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c ____	403e ____
Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 6716.2 cubic meters per day
404b ____ Intermittent ____ X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.1	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 29,673.2 cubic meters per day
404b ___ Intermittent x Continuou

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	292.0 mg/ℓ	396.8 mg/ℓ	275.0 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type		Quantity		Units
Product	403a	Paper Ton/Prod.	403c	360	403e	0-1
Raw Material	403b		403d		403f	

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 7,276.2 cubic meters per day
404b ____ Intermittent ____ Continuous (x)

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
(x) Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	342 mg/ℓ	582.5 mg/ℓ	183 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

September 27, 1983

Department of Natural Resources
Mr. Robert Barker
P.O. Box 30028
Lansing, Michigan 48909

Dear Mr. Barker:

Please find enclosed the third quarter report for 1983 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also, please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

Jack A. Wagemaker, J.S.

Jack A. Wagemaker,
Industrial Services Supervisor

j

attach

c File

City of Kalamazoo
Inter-Office
MEMO

To Jack A. Wagemaker, Industrial Services Supervisor Date 9/22/83

From Jean Eldred, Industrial Services Technician J Eldred

Regarding Industrial Surveillance Third Quarter Activities

1) Please note the addition of Kalamazoo Metal Finishers. This is a new electroplater.

2) The following accounts were sampled this quarter: Bronson Hospital, Eckrich, Georgia Pacific, James River, Kalamazoo Container, and Kalsec.

3) We have also taken samples at the KRPH discharge to Arcadia Creek. In addition to excessive suspended solids (10, 270 mg/l in one sample), domestic wastewater is being discharged as evidenced by a fecal coliform test. (A 0.1 ml sample was too numerous to count.) The DNR has been informed of this problem.

j

c File

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chip Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Cadillac Overall Supply
12. Checker Motors Corporation
13. Clausing Corporation
14. Continental Linen
15. Culligan Water Conditioning
16. Doubleday Brothers & Company
17. Durametallic Corporation
18. Eaton Corporation
19. Peter Eckrich & Sons, Incorporated
20. Fabri-Kal
21. Fisher Body
22. General Printing Ink
23. Georgia Pacific Corporation
24. Gibson, Incorporated
25. Harrison Packing Company
26. Hercules, Incorporated
27. Inmont Corporation
28. James River Corporation
29. KTS Industries
30. Kalamazoo Color Lab
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41. Laboratory Research Enterprises
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45. Merchant Publishing Company
46. Morren's Meat & Poultry
47. National Products Company
48. National Waterlift
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50. Port City Paints
51. Precision Heat Treating

NON-DOMESTIC USER INDEX

52. Roberts Consolidstes
53. Saver-Rowe Plating Company, Incorporated
54. Schafer Bakeries, Incorporated
55. Sinclair & Valentine
56. A.M. Todd Company
57. Type of Southwest Michigan
58. Union-Camp
59. The Upjohn Company - Portage Road
60. The Upjohn Company - Richland
61. The Upjohn Company - Henrietta
62. Walgreen Laboratories, Incorporated
63. Zurn Industries, Incorporated

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	49001
Zip Code:	401f	

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c ____	403e ____
Raw Material	403b	____	403d ____	403f ____

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 8224.7 cubic meters per day
404b ____ Intermittent ____ X Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.4	104 mg/ℓ	103 mg/ℓ	108 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway-Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 27,621.3 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	292.0 mg/ℓ	396.8 mg/ℓ	275.0 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299 28

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 9,094.8 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	342 mg/ℓ	582.5 mg/ℓ	183 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

December 21, 1983

Mr. Fred Morley
Department of Natural Resources
P.O. Box 355
Plainwell, MI 49080

Dear Mr. Morley:

Please find enclosed the Fourth Quarter Report for 1983 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also, please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

Richard G. Simms

Richard G. Simms, P.E.,
Wastewater Superintendent

s

Attach

c Jack Wagemaker
Jean Eldred
Richard Simms
File

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, WW Superintendent Date 12/16/83

From Jack A. Wagemaker, Industrial Services Supervisor

Regarding 4th Quarter 1983, Activities - Industrial Surveillance

Since we have not recieved official approval or disapproval of our Industrial Pretreatment Program from the Michigan Department of Natural Resources, we have begun to run inorganic analyses based on our consultant's (Greeley & Hansen) recommended industrial pretreatment procedures. We are also preparing to analyze some suggested organic samples.

In the 4th quarter of 1983 we have submitted samples to our laboratory, from:
- Walgreen Labs - inorganics
- James River Corporation - inorganics
- Georgia-Pacific Corporation - inorganics
- American Cyanamid - organics

Other samples have been submitted for analysis from:
- Kalamazoo Creamery - TSS and BOD's
- Bemo Potato Chip Company - TSS & BOD's
- American Cyanamid - COD's, TSS, P

Reports from Cadillac Overall (Arrow), Eaton Corporation, and Zurn Industries will not be included since all three companies have discontinued operations in our area.

s

c File

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chip Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Cadillac Overall Supply
12. Checker Motors Corporation
13. Clausing Corporation
14. Continental Linen
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16. Doubleday Brothers & Company
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33. Kalamazoo Metal Finishers
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35. Kalamazoo Regional Psychiatric Hospital
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43. Mastercraft Corporation
44. Mead Production
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46. Morren's Meat & Poultry
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55. Sinclair & Valentine
56.. A.M. Todd Company
57. Type of Southwest Michigan
58. Union-Camp
59. The Upjohn Company-- Portage Road
60. The Upjohn Company - Richland
61. The Upjohn Company - Henrietta
62. Walgreen Laboratories, Incorporated
63. Zurn Industries, Incorporated

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

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(See Instructions)

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Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	49001
Zip Code:	401f	

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 6133.5 cubic meters per day
404b ____ Intermittent x Continuou

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.4	110 mg/ℓ	103 mg/ℓ	37.5 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

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(See Instructions)

Name:	401a	Georgia Pacific Corporation
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City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 19,614.3 cubic meters per day
404b ___ Intermittent X Continuou

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	314 mg/ℓ	396.8 mg/ℓ	141 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 10,517.7 cubic meters per day
404b ____ Intermittent X Continuou

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
X Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	218 mg/ℓ	582.5 mg/ℓ	128 mg/ℓ				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, General Superintendent Date 3-20-84

From Jean Eldred, Industrial Surveillance Technician

Regarding First Quarter 1984 Activities, Industrial Services

As of this date, we still have not received approval or disapproval of our proposed Industrial Pretreatment Program, from the Michigan Department of Natural Resources. We are continuing to collect data based on our proposal. We have concentrated our efforts on inorganic analyses (toxic metals).

The following samples have been submitted to our Laboratory for analysis:

1) Upjohn (two sample runs)
2) Kalamazoo Metal Finishers
3) James River (two sample runs)
4) Continental Linen (conventionals)
5) Mall City Containers (two grab samples)
6) Kalamazoo Creamery (conventionals)
7) Eckrich (conventionals)
8) Kalamazoo Container
9) Savage Rowe Plating
10) Georgia Pacific

Please note that Cadillac Overall, Eaton Corporation and Zurn Industries are no longer included in this report because they have discontinued operations in our service area.

d
attach
c File

NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chip Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
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12. Clausing Corporation
13. Continental Linen
14. Culligan Water Conditioning
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16. Durametallic Corporation
17. Peter Eckrich & Sons, Incorporated
18. Fabri-Kal
19. Fisher Body
20. General Printing Ink
21. Georgia-Pacific Corporation
22. Gibson, Incorporated
23. Harrison Packing Company
24. Hercules, Incorporated
25. Inmont Corporation
26. James River Corporation
27. KTS Indutries
28. Kalamazoo Color Lab
29. Kalamazoo Container
30. Kalamazoo Creamery
31. Kalamazoo Metal Finishers
32. Kalamazoo Radiology
33. Kalamazoo Regional Psychiatric Hospital
34. Kalamazoo Spring Company
35. Kalamazoo Stamping & Die Company
36. Kalsec, Incorporated
37. Keene Corporation
38. LSI/Kala Incorporated
39. Laboratory Research Enterprises
40. Lakeside Refining Company
41. Mastercraft Corporation
42. Mead Production
43. Merchant Publishing Company
44. Morren's Meat & Poultry
45. National Products Company
46. National Waterlift
47. Oliver & Tobias, Incorporated
48. Port City Paints
49. Precision Heat Treating
50. Roberts Consolidate

51. Savage Rowe Plating Company, Incorporated
52. Schafer Bakeries, Incorporated
53. Sinclair & Valentine
54. A.M. Todd Company
55. Type of Southwest Michigan
56. Union-Camp
57. The Upjohn Company - Portage Road
58. The Upjohn Company - Richland
59. The Upjohn Company - Henrietta
60. Walgreen Laboraties

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ____ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c	403e
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 3979.9 cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.4	104 mg/l	103 mg/l	27 mg/l				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway-Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 16924.2 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	300 mg/1	396.8 mg/1	200 mg/1				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

To comply with the reporting requirements of Special Conditions, Page ___ of ___ of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 7310.4 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	374 mg/1	582.5 mg/1	120 mg/1				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

July 5, 1984

Mr. Fred Morley, P.E.
Department of Natural Resources
P.O. Box 355
Plainwell, Michigan 49080

Dear Mr. Morley:

Please find enclosed the Second Quarter Report for 1984 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also, please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

Rohel W Amundson

Rohel Amundson,
Water Quality General Supervisor

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attach

c Jack Wagemaker
Jean Eldred
Richard Simms
Rohel Amundson
File

City of Kalamazoo
Inter-Office
MEMO

To Richard G. Simms, General Superintendent Date July 5, 1984

From Jack Wagemaker, Industrial Services Supervisor

Regarding Second Quarter 1984 Activities, Industrial Services

As of June 30, 1984 resolvement of our proposed Industrial Pretreatment Program has not been made by the Michigan Department of Natural Resources. Progress has been made during this quarter for approval based on meetings held with Michigan Department of Natural Resources personnel. Every effort is being made to amend our proposed Pretreatment Program to meet the requirements of the Environmental Protection Agency and the Michigan Department of Natural Resources.

We are continuing to collect data based on our original proposal. We have concentrated our efforts in the inorganic analyses area (toxic metals).

The following samples have been submitted to our laboratory for analyses:

1) American Cyanamid-metals and conventionals - 2 weeks

2) Keene Corporation-conventionals - 2 grabs.

3) Kalamazoo Container Corporation-metals and conventionals - 1 week

4) LRE-conventionals only

5) Kalsec-conventionals only

6) Bemo Potato Chip Company-conventionals only

7) Lear-Siegler-metals and conventionals - 1 week

8) Hercules Powder Copany-conventionals only - 1 week

9) National Water Lift-Pueumo Corporation-metals and conventionals - 1 week

10) LSI-Kala-metals and conventionals - lweek

11) Kalamazoo Creamery-conventionals - 3 weeks, 2 locations

12) Upjohn Company-conventionals - 2 weeks

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NON-DOMESTIC USER INDEX

1. Allied Paper Company
2. American Cyanamid
3. Beach Products
4. BeMo Potato Chip Company
5. Borgess Hospital
6. Borroughs/Lear Siegler, Incorporated
7. Bowers Manufacturing Company
8. Bronson Methodist Hospital
9. Brundage Company
10. C.R. Industries, Speareflex
11. Checker Motors Corporation
12. Clausing Corporation
13. Continental Linen
14. Culligan Water Conditioning
15. Doubleday Brothers & Company
16. Durametallic Corporation
17. Peter Eckrich & Sons, Incorporated
18. Fabri-Kal
19. Fisher Body
20. General Printing Ink
21. Georgia-Pacific Corporation
22. Gibson, Incorporated
23. Harrison Packing Company
24. Hercules, Incorporated
25. Inmont Corporation
26. James River Corporation
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31. Kalamazoo Metal Finishers
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50. Roberts Consolidate

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53. Sinclair & Valentine
54. A.M. Todd Company
55. Type of Southwest Michigan
56. Union-Camp
57. The Upjohn Company - Portage Road
58. The Upjohn Company - Richland
59. The Upjohn Company - Henrietta
60. Walgreen Laboraties

FORM MI-8

NPDES PERMIT NO.
MI 0023299

ADDITIONAL INFORMATION REQUIRED
FROM APPLICANTS RECEIVING INDUSTRIAL WASTE

Name of Organization Responsible for Facility

Kalamazoo, City of

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1. Major Contributing Facility:
(See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage Street
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Products	403c ___	403e ___
Raw Material	403b	___	403d ___	403f ___

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 3658.4 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 ___ Yes x No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.4	104 mg/1	103 mg/1	27 mg/1				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

FORM MI-8

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MI 0023299

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Name of Organization Responsible for Facility

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(See Instructions)

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City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 19841.0 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	272 mg/1	396.8 mg/1	164 mg/1				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

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(See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Product or Raw Materials (See Instructions)

		Type	Quantity	Units
Product	403a	Paper Ton/Prod.	403c 360	403e 0-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 3297.3 cubic meters per day
404b ___ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405
x Yes ___ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	478 mg/l	582.5 mg/l	137 mg/l				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A."

CITY OF KALAMAZOO, MICHIGAN

March 28, 1985

Mr. Fred Morley, P.E.
Department of Natural Resources
P.O. Box 355
Plainwell, Michigan 49080

Dear Mr. Morley:

Please find enclosed the First Quarter Report for 1985 which summarizes Industrial Surveillance activities within the Kalamazoo Wastewater Treatment System. Also, please find enclosed additional informational updates pertaining to this quarterly report.

If you have any questions regarding this report, please let us know.

Sincerely,

Rohel W. Amundson

Rohel Amundson,
Water Quality General Supervisor

h

attach

c Jack Wagemaker
Jean Eldred
Richard Simms
Rohel Amundson
File

DEPARTMENT OF PUBLIC UTILITIES, Wastewater Treatment Plant
1415 N. Harrison, Kalamazoo, Michigan 49007 • (616) 385-8157

City of Kalamazoo

INTER-OFFICE MEMO

To: Rohel Amundson, Water Quality General Supervisor

From: Jean Eldred J Eldred

Date: March 28, 1985

Subject: First Quarter Activities 1985, Industrial services

During the first quarter much work was done to further the approval process of our IPP. The influent was analyzed for organic priority pollutants, the effluent was analyzed for metals; these results have been submitted to the MDNR.

The former Gibson factory is being readied to become an industrial incubator.

Analyses for the following accounts have been received and incorporated into the attached quarterly report:

1. American Cyanamid
2. Checker Motors
3. Durametallic
4. Georgia-Pacific Corp.
5. Hercules, Inc.
6. James River Corp.
7. Kalamazoo Container
8. Kalamazoo Creamery
9. Kalamazoo Metal Finishers
10. Kalsec, Inc.
11. Savage-Rowe Plating Co., Inc.
12. Upjohn

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NON-DOMESTIC USER INDEX

1. Allied Paper Company
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11. Clausing Corporation
12. Continental Linen
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33. Kalamazoo Spring Company
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36. Keene Corporation
37. LSI/Kala Incorporated
38. Laboratory Research Enterprises
39. Lakeside Refining Company
40. Mastercraft Corporation
41. Mead Production
42. Merchant Publishing Company
43. Morren's Meat & Poultry
44. National Products Company
45. National Waterlift
46. Oliver & Tobias, Incorporated
47. Port City Paints
48. Precision Heat Treating
49. Roberts Consolidated

50. Savage Rowe Plating Company, Incorporated
51. Schafer Bakeries, Incorporated
52. Sinclair & Valentine
53. A.M. Todd Company
54. Torin HVAC
55. Type of Southwest Michigan
56. Union-Camp
57. The Upjohn Company - Portage Road
58. The Upjohn Company - Richland
59. The Upjohn Company - Henrietta
60. Walgreen Laboratories

FORM MI-8

NPDES PERMIT NO. MI 0023299

ADDITIONAL INFORMATION REQUIRED FROM APPLICANTS RECEIVING INDUSTRIAL WASTE
NAME OF ORGANIZATION RESPONSIBLE FOR FACILITY

KALAMAZOO, CITY OF

To comply with the reporting requirements of special conditions, Page _____ of _____ of of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility: (See Instructions)

Name:	401a	Allied Paper Co. Div. SCM Corp.
Street:	401b	2030 Portage
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

3. Principal Products or Raw Materials: (See Instructions)

		Type		Quantity		Units
Product	403a	Paper Products	403c		403e	
Raw Material	403b		403d		403f	

4. Flow: Indicate the volume of water discharged to the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.

404a 4567 cubic meters per day

404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	6.4 - 7.4	160 mg/l	103 mg/l	89 mg/l				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A.".

FORM MI-8

NPDES PERMIT NO. 20
MI 0023299

ADDITIONAL INFORMATION REQUIRED FROM APPLICANTS RECEIVING INDUSTRIAL WASTE
NAME OF ORGANIZATION RESPONSIBLE FOR FACILITY

KALAMAZOO, CITY OF

To comply with the reporting requirements of special conditions, Page _____ of _____ of of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility:
(See Instructions)

Name:	401a	Georgia Pacific Corporation
Street:	401b	2425 Kings Highway-Box 2738
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49001

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

		Type	Quantity	Units
3. Principal Products or Raw Materials: (See Instructions)		Paper		
Product	403a	Ton/Prod.	403c 235+	403e J-1
Raw Material	403b		403d	403f

4. Flow: Indicate the volume of water discharged to the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
404a 17,800 cubic meters per day
404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 x Yes ____ No

6. Characteristics of Wastewater:
(See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9 7.2	311 mg/l	396.8 mg/l	121 mg/l				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A.".

FORM MI-8

NPDES PERMIT NO. 25
MI 0023299

ADDITIONAL INFORMATION REQUIRED FROM APPLICANTS RECEIVING INDUSTRIAL WASTE
NAME OF ORGANIZATION RESPONSIBLE FOR FACILITY

KALAMAZOO, CITY OF

To comply with the reporting requirements of special conditions, Page _____ of _____ of of this permit, the following procedure should be utilized for each major contributing industry:

1. Major Contributing Facility: (See Instructions)

Name:	401a	James River Paper Company
Street:	401b	243 E. Paterson
City:	401c	Kalamazoo
County:	401d	Kalamazoo
State:	401e	Michigan
Zip Code:	401f	49007

2. Primary Standard Industrial Classification Code: (See Instructions) 402 2621

		Type		Quantity		Units
3. Principal Products or Raw Materials: (See Instructions)	Product	403a	Paper Ton/Prod.	403c	360	403e 0-1
	Raw Material	403b		403d		403f

4. Flow: Indicate the volume of water discharged to the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
   404a 3301 cubic meters per day
   404b ____ Intermittent x Continuous

5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system. 405 x Yes ____ No

6. Characteristics of Wastewater: (See Instructions)

Parameter Name	pH	BOD	COD	TSS				
Parameter Number	00400	00310	00340	00530				
Value	5.9-7.3	273 mg/l	582.5 mg/l	71 mg/l				

It is the responsibility of the permittee to obtain the required information for all major industrial contributors to his facility including those contributing via another system. Actual data should be provided if available otherwise, the best estimate should be provided and the response marked "Interim". If certain of the requested information does not apply, it should be marked "N.A.".

JANUARY 1995 1;31;31

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8488	1196	10145	1374	11658	34	286	
YEAR TO DATE DAILY AVERAGE	8488	1196	10145	1374	11658	34	286	
MONTHLY HIGH	13419 (28)	2440 (15)	19217 (29)	1935 (12)	22584 (28)	78 (28)	1053 (28)	
MONTHLY LOW	2804 (2)	100 (2)	280 (2)	400 (2)	1121 (2)	2 (2)	7 (2)	
MONTHLY TOTAL	263135	—	314518	—	361402	—	8885	
% OF 4 INDUSTRIAL TOTAL	23%	—	86%	—	59%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	263135	—	314518	—	361402	—	8885	
YEAR TO DATE TOTAL	263135	—	314518	—	361402	—	8885	
PORTAGE PAPERS								
DAILY AVERAGE	3179	60	188	241	764	—	—	
YEAR TO DATE DAILY AVERAGE	3179	60	188	241	764	—	—	
MONTHLY HIGH	5428 (31)	148 (11)	402 (30)	457 (11)	1215 (10)	—	—	
MONTHLY LOW	1845 (9)	26 (2)	75 (2)	60 (29)	124 (17)	—	—	
MONTHLY TOTAL	98548	—	5850	—	23676	—	—	
% of 4 INDUSTRY TOTAL	08%	—	02%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	98548	—	5850	—	23676	—	—	
YEAR TO DATE TOTAL	98548	—	5850	—	23676	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	16420	58	952	224	3687	—	—	
YEAR TO DATE DAILY AVERAGE	16420	58	952	224	3687	—	—	
MONTHLY HIGH	20280 (30)	128 (23)	2154 (23)	319 (10)	4567 (30)	—	—	
MONTHLY LOW	13360 (1)	20 (8)	363 (8)	150 (2)	2244 (1)	—	—	
MONTHLY TOTAL	509040	—	29524	—	114315	—	—	
% OF 4 INDUSTRIAL TOTAL	44%	—	08%	—	19%	—	—	
YEAR TO DATE MONTLY AVERAGE	509040	—	29524	—	114315	—	—	
YEAR TO DATE TOTAL	509040	—	29524	—	114315	—	—	
JAMES RIVER								
DAILY AVERAGE	9490	59	562	369	3502	—	—	
YEAR TO DATE DAILY AVERAGE	9490	59	562	369	3502	—	—	
MONTHLY HIGH	16001 (21)	166 (15)	1577 (15)	523 (10)	5475 (28)	—	—	
MONTHLY LOW	4856 (30)	12 (7)	148 (7)	218 (2)	1638 (2)	—	—	
MONTHLY TOTAL	294190	—	17428	—	108569	—	—	
% OF 4 INDUSTRY TOTAL	25%	—	04%	—	18%	—	—	
YEAR TO DATE MONTHLY AVERAGE	294190	—	17428	—	108569	—	—	
YEAR TO DATE TOTAL	294190	—	17428	—	108569	—	—	
TOTALS	1164913	—	367320	—	607962	—	8885	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	37578	315	11849	522	19611	8	286	

FEBRUARY 1995 2;59;28

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10507	1458	15313	1565	16436	35	373	
YEAR TO DATE DAILY AVERAGE	9446	1334	12598	1475	13925	35	327	
MONTHLY HIGH	18960 (10)	4640 (25)	51369 (25)	2329 (25)	26086 (18)	67 (17)	792 (17)	
MONTHLY LOW	7155 (13)	320 (4)	3491 (5)	510 (5)	4685 (5)	11 (20)	108 (13)	
MONTHLY TOTAL	274210	—	428762	—	460286	—	10440	
% OF 4 INDUSTRIAL TOTAL	26%	—	87%	—	69%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	278672	—	371640	—	410804	—	9662	
YEAR TO DATE TOTAL	557345	—	743280	—	821608	—	19325	
~~[illegible]~~ PORTAGE PAPERS								
DAILY AVERAGE	3178	49	155	301	959	—	—	
YEAR TO DATE DAILY AVERAGE	3178	54	173	270	856	—	—	
MONTHLY HIGH	5521 (1)	92 (28)	300 (24)	459 (27)	1839 (24)	—	—	
MONTHLY LOW	1468 (14)	22 (4)	53 (14)	68 (14)	100 (14)	—	—	
MONTHLY TOTAL	88999	—	4340	—	26844	—	—	
% of 4 INDUSTRY TOTAL	08%	—	01%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	93773	—	5095	—	25260	—	—	
YEAR TO DATE TOTAL	187547	—	10190	—	50520	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	16928	71	1203	2660	4500	—	—	
YEAR TO DATE DAILY AVERAGE	16661	64	1071	244	4073	—	—	
MONTHLY HIGH	22080 (23)	173 (6)	3650 (6)	347 (1)	6217 (27)	—	—	
MONTHLY LOW	9240 (16)	24 (11)	420 (11)	101 (14)	1907 (14)	—	—	
MONTHLY TOTAL	473970	—	33701	—	126026	—	—	
% OF 4 INDUSTRIAL TOTAL	41%	—	07%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	491505	—	31612	—	120170	—	—	
YEAR TO DATE TOTAL	983010	—	63225	—	240341	—	—	
JAMES RIVER								
DAILY AVERAGE	10160	92	930	464	4707	—	—	
YEAR TO DATE DAILY AVERAGE	9808	75	737	416	4074	—	—	
MONTHLY HIGH	20337 (5)	462 (16)	4040 (16)	645 (7)	9959 (6)	—	—	
MONTHLY LOW	5809 (20)	18 (19)	158 (19)	216 (4)	2106 (14)	—	—	
MONTHLY TOTAL	284489	—	26055	—	131813	—	—	
% OF 4 INDUSTRY TOTAL	25%	—	05%	—	17%	—	—	
YEAR TO DATE MONTHLY AVERAGE	289339	—	21741	—	120191	—	—	
YEAR TO DATE TOTAL	578679	—	43483	—	240382	—	—	
TOTALS	1141668	—	492858	—	744889	—	10440	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	40774	432	17602	653	26603	9	373	

MARCH 1995 3; 90; 31

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH3-N MG/L	NH3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10751	1737	18660	1419	15246	33	352	
YEAR TO DATE DAILY AVERAGE	9896	1485	14686	1454	14380	34	336	
MONTHLY HIGH	12937 (15)	10900 (5)	20990 (5)	3331 (4)	34377 (4)	69 (10)	756 (24)	
MONTHLY LOW	9258 (19)	120 (26)	1140 (26)	400 (19)	3703 (9)	3 (26)	30 (26)	
MONTHLY TOTAL	332279	—	578473	—	472642	—	10915	
% OF 4 INDUSTRIAL TOTAL	26%	—	87%	—	69%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	270875	—	440584	—	431417	—	10080	
YEAR TO DATE TOTAL	8906624	—	13217753	—	12942250	—	302440	
[redacted] PORTAGE PAPERS								
DAILY AVERAGE	3539	173	607	231	812	—	—	
YEAR TO DATE DAILY AVERAGE	3302	98	322	255	841	—	—	
MONTHLY HIGH	6780 (31)	1422 (31)	9640 (31)	508 (26)	1694 (31)	—	—	
MONTHLY LOW	1713 (22)	30 (20)	62 (23)	60 (31)	126 (18)	—	—	
MONTHLY TOTAL	109710	—	18817	—	25163	—	—	
% of 4 INDUSTRY TOTAL	09%	—	03%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	99086	—	9669	—	25227	—	—	
YEAR TO DATE TOTAL	297257	—	29007	—	756083	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	17069	61	1034	191	3254	—	—	
YEAR TO DATE DAILY AVERAGE	16801	63	1059	226	3791	—	—	
MONTHLY HIGH	20270 (8)	112 (6)	1881 (1)	365 (26)	6006 (26)	—	—	
MONTHLY LOW	13930 (3)	18 (11)	295 (11)	40 (27)	608 (27)	—	—	
MONTHLY TOTAL	529140	—	32061	—	100870	—	—	
% OF 4 INDUSTRIAL TOTAL	42%	—	05%	—	13%	—	—	
YEAR TO DATE MONTLY AVERAGE	504050	—	31762	—	113737	—	—	
YEAR TO DATE TOTAL	1512150	—	95286	—	341211	—	—	
JAMES RIVER								
DAILY AVERAGE	9433	66	627	304	2861	—	—	
YEAR TO DATE DAILY AVERAGE	9679	72	699	378	3656	—	—	
MONTHLY HIGH	12921 (21)	190 (11)	2318 (11)	556 (20)	4699 (28)	—	—	
MONTHLY LOW	6620 (16)	14 (23)	154 (23)	150 (10)	1186 (9)	—	—	
MONTHLY TOTAL	292440	—	19427	—	88692	—	—	
% OF 4 INDUSTRY TOTAL	23%	—	03%	—	12%	—	—	
YEAR TO DATE MONTHLY AVERAGE	290373	—	20970		109691	—	—	
YEAR TO DATE TOTAL	871119	—	62910		329074	—	—	
TOTALS	1264569	—	648778	—	687367	—	10915	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	40792	513	20928	544	22173	9	352	

JANUARY 1994 1; 31; 31

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH3-N MG/L	NH3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11268	1023	11517	1446	16279	28	319	
YEAR TO DATE DAILY AVERAGE	11268	1023	11517	1446	16279	28	319	
MONTHLY HIGH	17330 (31)	1740 (4)	18094 (4)	3180 (4)	33078 (4)	46 (29)	494 (6)	
MONTHLY LOW	7706 (2)	190 (17)	1866 (17)	400 (2)	3082 (2)	8 (2)	106 (2)	
MONTHLY TOTAL	349304	—	357040	—	504676	—	9891	
% OF 4 INDUSTRIAL TOTAL	31%	—	89%	—	67%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	349304	—	357040	—	504676	—	9891	
YEAR TO DATE TOTAL	349304	—	357040	—	504676	—	9891	
JAMES RIVER								
DAILY AVERAGE	6777	59	400	486	3295	—	—	
YEAR TO DATE DAILY AVERAGE	6777	59	400	486	3295	—	—	
MONTHLY HIGH	9153 (1)	104 (31)	771 (31)	683 (27)	4799 (28)	—	—	
MONTHLY LOW	3470 (20)	32 (15)	177 (16)	310 (6)	1515 (9)	—	—	
MONTHLY TOTAL	210084	—	12393	—	102146	—	—	
% of 4 INDUSTRY TOTAL	18%	—	03%	—	13%	—	—	
YEAR TO DATE MONTHLY AVERAGE	210084	—	12393	—	102146	—	—	
YEAR TO DATE TOTAL	210084	—	12393	—	102146	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	16437	58	946	249	4089	—	—	
YEAR TO DATE DAILY AVERAGE	16437	58	946	249	4089	—	—	
MONTHLY HIGH	19650 (23)	108 (31)	1875 (31)	353 (23)	6944 (23)	—	—	
MONTHLY LOW	14049 (24)	30 (20)	447 (20)	149 (28)	2546 (28)	—	—	
MONTHLY TOTAL	509550	—	29325	—	126765	—	—	
% OF 4 INDUSTRIAL TOTAL	44%	—	07%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	509550	—	29325	—	126765	—	—	
YEAR TO DATE TOTAL	509550	—	29325	—	126765	—	—	
PORTAGE PAPERS								
DAILY AVERAGE	2380	49	117	294	702	—	—	
YEAR TO DATE DAILY AVERAGE	2380	49	117	294	703	—	—	
MONTHLY HIGH	5002 (23)	152 (21)	459 (21)	517 (4)	1522 (22)	—	—	
MONTHLY LOW	356 (16)	20 (16)	7 (16)	197 (16)	110 (16)	—	—	
MONTHLY TOTAL	73787	—	3635	—	21754	—	—	
% OF 4 INDUSTRY TOTAL	07%	—	01%	—	03%	—	—	
YEAR TO DATE MONTHLY AVERAGE	73787	—	3635	—	21754	—	—	
YEAR TO DATE TOTAL	73787	—	3635	—	21754	—	—	
TOTALS	1142725	—	402393	—	755341	—	9891	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	368862	352	12980	461	24366	9	319	

INDUSTRIAL SUMMARY SHEET

FEBRUARY 1994 2; 59; 28

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	C.BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	12122	648	7842	975	11804	24	291	
YEAR TO DATE DAILY AVERAGE	11673	838	9773	1214	14156	26	306	
MONTHLY HIGH	18878 (23)	1680 (19)	21665 (19)	2349 (2)	25997 (2)	60 (18)	696 (18)	
MONTHLY LOW	8436 (7)	180 (5)	1920 (5)	400 (13)	3816 (13)	3 (7)	31 (7)	
MONTHLY TOTAL	339420	—	219572	—	330523	—	8161	
% OF 4 INDUSTRIAL TOTAL		—		—		—	100%	
YEAR TO DATE MONTHLY AVERAGE	344363	—	288306	—	417600	—	9026	
YEAR TO DATE TOTAL	688724	—	576612	—	835199	—	18052	
JAMES RIVER								
DAILY AVERAGE	7319	138	1013	507	3715	—	—	
YEAR TO DATE DAILY AVERAGE	7034	98	691	497	3494	—	—	
MONTHLY HIGH	10676 (27)	1680 (21)	14056 (21)	645 (1)	5496 (3)	—	—	
MONTHLY LOW	4290 (7)	34 (20)	224 (10)	345 (11)	1514 (11)	—	—	
MONTHLY TOTAL	204925	—	28354	—	104010	—	—	
% of 4 INDUSTRY TOTAL		—		—		—	—	
YEAR TO DATE MONTHLY AVERAGE	207505	—	20374	—	103078	—	—	
YEAR TO DATE TOTAL	415009	—	40747	—	206156	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	17314	51	878	279	4826	—	—	
YEAR TO DATE DAILY AVERAGE	16853	54	914	263	4439	—	—	
MONTHLY HIGH	22180 (4)	88 (1)	1586 (2)	369 (1)	6237 (3)	—	—	
MONTHLY LOW	14193 (21)	24 (20)	399 (26)	211 (12)	3459 (12)	—	—	
MONTHLY TOTAL	484785	—	24577	—	135138	—	—	
% OF 4 INDUSTRIAL TOTAL		—		—		—	—	
YEAR TO DATE MONTLY AVERAGE	497168	—	26951	—	130952	—	—	
YEAR TO DATE TOTAL	994335	—	53902	—	261903	—	—	
PORTAGE PAPERS								
DAILY AVERAGE	1768	42	74	329	576	—	—	
YEAR TO DATE DAILY AVERAGE	2090	46	97	308	642	—	—	
MONTHLY HIGH	4148 (19)	84 (11)	169 (17)	628 (27)	1795 (17)	—	—	
MONTHLY LOW	256 (27)	28 (19)	12 (27)	104 (9)	119 (9)	—	—	
MONTHLY TOTAL	49496	—	2074	—	16135	—	—	
% OF 4 INDUSTRY TOTAL		—		—		—	—	
YEAR TO DATE MONTHLY AVERAGE	61642	—	2855	—	18945	—	—	
YEAR TO DATE TOTAL	123283	—	5709	—	37889	—	—	
TOTALS	1078626	—	274577	—	734325	—	8161	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	38522	255	9806	681	26226	8	291	

MARCH 1994 3;90; 31

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	C BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	12448	1005	12516	1371	17073	41	505	
YEAR TO DATE DAILY AVERAGE	8059	1331	10718	1882	15161	46	374	
MONTHLY HIGH	20162 (8)	2160 (19)	27086 (19)	2311 (5)	27753 (19)	88 (29)	1075 (29)	
MONTHLY LOW	9797 (27)	320 (27)	3527 (27)	640 (21)	7485 (28)	10 (31)	123 (31)	
MONTHLY TOTAL	385890	—	388004	—	529254	—	15641	
% OF 4 INDUSTRIAL TOTAL	31%	—	90%	—	65%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	241770	—	321539	—	454818	—	11231	
YEAR TO DATE TOTAL	725310	—	964616	—	1364453	—	33693	
PORTAGE PAPER								
DAILY AVERAGE	1381	62	85	557	772	—	—	
YEAR TO DATE DAILY AVERAGE	1846	50	93	372	687	—	—	
MONTHLY HIGH	2862 (29)	98 (4)	178 (23)	718 (25)	1557 (25)	—	—	
MONTHLY LOW	612 (1)	40 (24)	42 (1)	286 (31)	223 (1)	—	—	
MONTHLY TOTAL	42822	—	2647	—	23944	—	—	
% of 4 INDUSTRY TOTAL	03%	—	01%		03%	—	—	
YEAR TO DATE MONTHLY AVERAGE	553668	—	2785	—	20611	—	—	
YEAR TO DATE TOTAL	1664105	—	8356	—	61833	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	17090	54	917	264	4530	—	—	
YEAR TO DATE DAILY AVERAGE	16935	54	915	264	4467	—	—	
MONTHLY HIGH	19762 (16)	114 (16)	2253 (16)	406 (25)	6379 (25)	—	—	
MONTHLY LOW	15371 (22)	26 (29)	404 (29)	153 (29)	2377 (29)		—	
MONTHLY TOTAL	529802	—	28415	—	140134	—	—	
% OF 4 INDUSTRIAL TOTAL	43%	—	07%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	508046	—	27439	—	134012	—	—	
YEAR TO DATE TOTAL	1524137	—	82311	—	402037	—	—	
JAMES RIVER								
DAILY AVERAGE	8840	45	401	440	3891	—	-	
YEAR TO DATE DAILY AVERAGE	7056	77	591	474	3631	—		
MONTHLY HIGH	11992 (5)	74 (18)	601 (18)	531 (1)	5585 (5)	—	-	
MONTHLY LOW	6410 (4)	24 (26)	301 (29)	365 (31)	2839 (7)	—	—	
MONTHLY TOTAL	274043	—	12422	—	120627	—		
% OF 4 INDUSTRY TOTAL	23%	—	02%	—	15%	—		
YEAR TO DATE MONTHLY AVERAGE	229684	—	17723	—	108928	-		
YEAR TO DATE TOTAL	689052	—	53169	-	326782	—	-	
TOTALS	1232557	—	431488	—	813959	—	15641	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	39760	350	13919	661	26257	13	505	

APRIL 1994 4;120;30

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	121168	1076	13094	1444	17573	40	491	
YEAR TO DATE DAILY AVERAGE	90846	1245	11311	1735	15764	44	404	
MONTHLY HIGH	143465 (1)	2600 (1)	37349 (1)	4798 (5)	59024 (5)	91 (16)	1126 (16)	
MONTHLY LOW	88667 (18)	280 (10)	2982 (24)	548 (11)	6666 (24)	15 (4)	173 (4)	
MONTHLY TOTAL	3650038	—	392810	—	527213	—	14746	
% OF 4 INDUSTRIAL TOTAL	30%	—	91%	—	71%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	272587	—	339357	—	472916	—	12118	
YEAR TO DATE TOTAL	1090348	—	1357426	—	1891666	—	48439	
PORTAGE PAPER								
DAILY AVERAGE	1876	58	108	282	527	—	—	
YEAR TO DATE DAILY AVERAGE	1853	52	96	350	647	—	—	
MONTHLY HIGH	5088 (12)	152 (15)	185 (15)	622 (5)	1266 (12)	—	—	
MONTHLY LOW	814 (30)	23 (27)	24 (30)	60 (26)	83 (26)	—	—	
MONTHLY TOTAL	56279	—	3231	—	15822	—	—	
% of 4 INDUSTRY TOTAL	05%	—	01%	—	02%	—	—	
YEAR TO DATE MONTHLY AVERAGE	55596	—	2897	—	19413	—	—	
YEAR TO DATE TOTAL	222384	—	11587	—	77655	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	18039	42	755	215	3875	—	—	
YEAR TO DATE DAILY AVERAGE	17211	51	875	251	4319	—	—	
MONTHLY HIGH	22532 (17)	74 (4)	1308 (28)	407 (5)	6291 (5)	—	—	
MONTHLY LOW	13595 (18)	16 (6)	268 (6)	123 (12)	2039 (9)	—	—	
MONTHLY TOTAL	541185	—	22644	—	116273	—	—	
% OF 4 INDUSTRIAL TOTAL	44%	—	05%	—	16%	—	—	
YEAR TO DATE MONTLY AVERAGE	516331	—	26240	—	129577	—	—	
YEAR TO DATE TOTAL	2065322	—	104961	—	518310	—	—	
JAMES RIVER								
DAILY AVERAGE	8644	54	473	333	2872	—	—	
YEAR TO DATE DAILY AVERAGE	7903	71	561	436	3447	—	—	
MONTHLY HIGH	12369 (9)	190 (16)	2065 (16)	533 (5)	4552 (5)	—	—	
MONTHLY LOW	5125 (18)	28 (1)	215 (18)	183 (10)	1652 (25)	—	—	
MONTHLY TOTAL	259342	—	14177	—	86178	—	—	
% OF 4 INDUSTRY TOTAL	21%	—	03%	—	11%	—	—	
YEAR TO DATE MONTHLY AVERAGE	237098	—	16836	—	103240	—	—	
YEAR TO DATE TOTAL	948394	—	67346	—	412961	—	—	
TOTALS	1221844	—	432862	—	745486	—	14746	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	40728	354	14429	610	24850	12	491	

MAY 1994 5; 151; 31

UPJOHN	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	11636	1085	12635	1443	16811	32	370	
YEAR TO DATE DAILY AVERAGE	9410	1205	11583	1663	15979	41	397	
MONTHLY HIGH	14414 (5)	3260 (28)	36195 (28)	2381 (28)	27307 (12)	62 (1)	803 (1)	
MONTHLY LOW	7031 (29)	190 (23)	4602 (2)	100 (23)	4117 (23)	11 (25)	147 (25)	
MONTHLY TOTAL	360731	—	391676	—	521142	—	11488	
% OF 4 INDUSTRIAL TOTAL	28%	—	89%	—	100%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	290216	—	349820	—	482562	—	11985	
YEAR TO DATE TOTAL	1451079	—	1749102	—	2412808	—	59927	
PORTAGE PAPER								
DAILY AVERAGE	3528	39	139	233	820	—	—	
YEAR TO DATE DAILY AVERAGE	2197	48	105	310	310	—	—	
MONTHLY HIGH	8856 (24)	118 (10)	331 (7)	545 (2)	2210 (7)	—	—	
MONTHLY LOW	1022 (3)	21 (25)	27 (1)	60 (31)	319 (8)	—	—	
MONTHLY TOTAL	109360	—	4312	—	25419	—	—	
% of 4 INDUSTRY TOTAL	08%	—	01%	—	03%	—	—	
YEAR TO DATE MONTHLY AVERAGE	66349	—	3180	—	20615	—	—	
YEAR TO DATE TOTAL	331744	—	15879	—	103074	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	18171	49	883	242	4391	—	—	
YEAR TO DATE DAILY AVERAGE	17408	50	876	249	4334	—	—	
MONTHLY HIGH	26117 (15)	170 (7)	3253 (9)	312 (25)	6106 (15)	—	—	
MONTHLY LOW	1706 (11)	19 (9)	95 (11)	196 (13)	517 (11)	—	—	
MONTHLY TOTAL	563312	—	27365	—	136111	—	—	
% OF 4 INDUSTRIAL TOTAL	43%	—	06%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	525727	—	26465	—	130884	—	—	
YEAR TO DATE TOTAL	2628634	—	132326	—	654421	—	—	
JAMES RIVER								
DAILY AVERAGE	8563	55	466	384	3283	—		
YEAR TO DATE DAILY AVERAGE	8039	67	537	424	3409	—		
MONTHLY HIGH	12978 (8)	100 (9)	850 (7)	1081 (31)	4740 (26)	—	—	
MONTHLY LOW	5209 (16)	31 (15)	217 (15)	67 (29)	469 (29)	—		
MONTHLY TOTAL	265406	—	14456	—	101765	—		
% OF 4 INDUSTRY TOTAL	21%	—	04%	—	14%	—		
YEAR TO DATE MONTHLY AVERAGE	242772	—	16360		102915	—	—	
YEAR TO DATE TOTAL	1213860	—	81082	—	514726	—	—	
TOTALS	1298869	—	137809	—	784437	—	11488	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	41899	337	14123	604	25304	9	370	

JUNE 1994 6; 181; 30

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	C BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11419	1137	11813	1379	15721	24	297	
YEAR TO DATE DAILY AVERAGE	9910	1192	12968	1609	15936	38	380	
MONTHLY HIGH	17025 (14)	3460 (23)	49813 (23)	3675 (23)	52909 (23)	45 (1)	711 (14)	
MONTHLY LOW	4819 (30)	440 (26)	2218 (30)	416 (29)	2057 (29)	8 (30)	37 (30)	
MONTHLY TOTAL	342585	—	389045	—	471619	—	8900	
% OF 4 INDUSTRIAL TOTAL	25%	—	89%	—	105%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	298944	—	356358	—	480738	—	11471	
YEAR TO DATE TOTAL	1793664	—	2138147	—	2884427	—	68827	
PORTAGE PAPER								
DAILY AVERAGE	6925	49	339	178	1236	—	—	
YEAR TO DATE DAILY AVERAGE	2981	48	144	260	774	—	—	
MONTHLY HIGH	10058 (21)	263 (11)	1711 (11)	349 (13)	2778 (13)	—	—	
MONTHLY LOW	4732 (9)	9 (5)	87 (2)	60 (19)	516 (2)	—	—	
MONTHLY TOTAL	207742	—	10186	—	37070	—	—	
% of 4 INDUSTRY TOTAL	15%	—	02%	—	05%	—	—	
YEAR TO DATE MONTHLY AVERAGE	89414	—	4347	—	23357	—	—	
YEAR TO DATE TOTAL	539486	—	26085	—	140144	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	18382	47	872	234	4301	—	—	
YEAR TO DATE DAILY AVERAGE	17570	50	876	246	4329	—	—	
MONTHLY HIGH	26570 (5)	132 (9)	2303 (9)	316 (16)	5843 (16)	—	—	
MONTHLY LOW	13920 (27)	23 (26)	473 (26)	96 (2)	1586 (2)	—	—	
MONTHLY TOTAL	551473	—	26172	—	129045	—	—	
% OF 4 INDUSTRIAL TOTAL	40%	—	06%	—	18%	—	—	
YEAR TO DATE MONTLY AVERAGE	530018	—	26416	—	130578	—	—	
YEAR TO DATE TOTAL	3180107	—	158498	—	783466	—	—	
JAMES RIVER								
DAILY AVERAGE	9449	42	396	295	2785	—	—	
YEAR TO DATE DAILY AVERAGE	8272	62	514	400	3305	—	—	
MONTHLY HIGH	13875 (18)	78 (23)	847 (3)	488 (27)	4354 (28)	—	—	
MONTHLY LOW	5934 (27)	16 (26)	124 (26)	150 (2)	924 (13)	—	—	
MONTHLY TOTAL	283461	—	11893	—	83566	—	—	
% OF 4 INDUSTRY TOTAL	20%	—	03%	—	12%	—	—	
YEAR TO DATE MONTHLY AVERAGE	249554	—	15496	—	99715	—	—	
YEAR TO DATE TOTAL	1497321	—	92975	—	598292	—	—	
TOTALS	1385261	—	437296	—	721300	—	8900	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	46175	316	14576	521	24043	6	297	

JULY 1994 7;212;31

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER PER $
UPJOHN								
DAILY AVERAGE	10922	994	10833	1345	14663	20	213	
YEAR TO DATE DAILY AVERAGE	10058	1160	11670	1546	15750	35	356	
MONTHLY HIGH	13539 (7)	2440 (9)	32373 (9)	2838 (3)	29617 (3)	32 (18)	379 (6)	
MONTHLY LOW	3752 (1)	220 (25)	1425 (1)	400 (25)	1883 (1)	4 (25)	17 (1)	
MONTHLY TOTAL	338580	—	335833	—	454562	—	6610	
% OF 4 INDUSTRIAL TOTAL	26%	—	85%	—	68%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	304606	—	353426	—	476998	—	10777	
YEAR TO DATE TOTAL	2132244	—	2473980	—	3338989	—	75437	
[redacted] PORTAGE PAPERS								
DAILY AVERAGE	3873	54	209	235	911	—	—	
YEAR TO DATE DAILY AVERAGE	3111	49	157	255	794	—	—	
MONTHLY HIGH	6841 (10)	226 ?	878 (18)	606 (31)	1928 (9)	—	—	
MONTHLY LOW	1895 (31)	21 (17)	83 (17)	60 (12)	261 (12)	—	—	
MONTHLY TOTAL	120051	—	6488	—	28240	—	—	
% of 4 INDUSTRY TOTAL	09%	—	02%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	94220	—	4653	—	24055	—	—	
YEAR TO DATE TOTAL	659537	—	32573	—	168384	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	18970	46	882	201	3807	—	—	
YEAR TO DATE DAILY AVERAGE	17774	49	876	239	4253	—	—	
MONTHLY HIGH	28514 (15)	138 (25)	2534	345 (1)	6251 (1)	—	—	
MONTHLY LOW	14259 (11)	10 (30)	167 (30)	100 (7)	1831 (7)	—	—	
MONTHLY TOTAL	588067	—	27337	—	118014	—	—	
% OF 4 INDUSTRIAL TOTAL	46%	—	07%	—	18%	—	—	
YEAR TO DATE MONTLY AVERAGE	538311	—	26548	—	128783	—	—	
YEAR TO DATE TOTAL	3768174	—	185835	—	901480	—	—	
JAMES RIVER								
DAILY AVERAGE	7681	110	845	274	2105	—	—	
YEAR TO DATE DAILY AVERAGE	8186	109	562	382	3130	—	—	
MONTHLY HIGH	11647 (17)	1280 (6)	9997 (6)	618 (3)	6624 (3)	—	—	
MONTHLY LOW	966 (8)	20 (2)	157 (30)	129 (27)	144 (8)	—	—	
MONTHLY TOTAL	238125	—	26206	—	65264	—	—	
% OF 4 INDUSTRY TOTAL	19%	—	13%	—	10%	—	—	
YEAR TO DATE MONTHLY AVERAGE	247921	—	17026	—	94794	—	—	
YEAR TO DATE TOTAL	1735446	—	119181	—	663556	—	—	
TOTALS	1284823	—	395864	—	6666080	—	6610	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	41446	308	12770	519	21486	5	213	

AUGUST 1994 8;243;31

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	C BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11264	1253	14111	1616	18196	26	288	
YEAR TO DATE DAILY AVERAGE	10212	1173	11981	1573	16062	34	347	
MONTHLY HIGH	13205 (24)	3220 (8)	26036 (8)	3167 (8)	26485 (3)	56 (27)	568 (27)	
MONTHLY LOW	8092 (8)	500 (14)	5572 (14)	1071 (18)	10651 (7)	10 (7)	90 (7)	
MONTHLY TOTAL	349194	—	437461	—	364080	—	8928	
% OF 4 INDUSTRIAL TOTAL	27%	—	87%	—	71%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	310180	—	363930	—	487884	—	10546	
YEAR TO DATE TOTAL	2481438	—	2911441	—	3903069	—	84365	
~~ALLIED~~ PORTAGE PAPER								
DAILY AVERAGE	2531	265	666	460	1157	—	—	
YEAR TO DATE DAILY AVERAGE	3037	72	219	277	840	—	—	
MONTHLY HIGH	4678 (9)	2300 (29)	9391 (29)	903 (4)	2976 (29)	—	—	
MONTHLY LOW	950 (26)	34 (14)	40 (14)	60 (6)	216 (6)	—	—	
MONTHLY TOTAL	78465	—	20645	—	35859	—	—	
% of 4 INDUSTRY TOTAL	06%	—	04%	—	05%	—	—	
YEAR TO DATE MONTHLY AVERAGE	92250	—	6652	—	25530	—	—	
YEAR TO DATE TOTAL	738002	—	53218	—	204243	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	19156	50	965	182	3479	—	—	
YEAR TO DATE DAILY AVERAGE	17951	49	888	231	4154	—	—	
MONTHLY HIGH	26393 (7)	288 (4)	5665 (4)	240 (31)	4810 (7)	—	—	
MONTHLY LOW	15642 (22)	13 (13)	210 (13)	117 (17)	2377 (16)	—	—	
MONTHLY TOTAL	593843		29929	—	107854	—	—	
% OF 4 INDUSTRIAL TOTAL	46%	—	06%	—	14%	—	—	
YEAR TO DATE MONTLY AVERAGE	545252	—	26970	—	126167	—	—	
YEAR TO DATE TOTAL	4362017	—	215764	—	1009334	—	—	
JAMES RIVER								
DAILY AVERAGE	9014	46	416	306	2755	—	—	
YEAR TO DATE DAILY AVERAGE	8292	66	543	372	3082	—	—	
MONTHLY HIGH	15674 (20)	86 (30)	908 (30)	441 (16)	3985 (20)	—	—	
MONTHLY LOW	5968 (15)	23 (20)	232 (13)	213 (22)	1805 (5)	—	—	
MONTHLY TOTAL	279426	—	12909	—	85419	—	—	
% OF 4 INDUSTRY TOTAL	21%	—	03%	—	10%	—	—	
YEAR TO DATE MONTHLY AVERAGE	251859	—	16511	—	93622	—	—	
YEAR TO DATE TOTAL	2014872	—	132090	—	748975	—	—	
TOTALS	1300928	—	500944	—	793212	—	8928	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	41965	385	16159	610	25587	7	288	

SEPTEMBER 1994 9; 273; 30

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11481	1505	17257	1599	18338	23	262	
YEAR TO DATE DAILY AVERAGE	10351	1357	12561	1576	16312	33	338	
MONTHLY HIGH	13187 (1)	6840 (19)	68215 (19)	8178 (19)	81554 (19)	45 (27)	531 (27)	
MONTHLY LOW	8653 (5)	280 (11)	2804 (11)	400 (5)	3461 (5)	8 (25)	82 (5)	
MONTHLY TOTAL	344430	—	517708	—	550150	—	7874	
% OF 4 INDUSTRIAL TOTAL	26%	—	89%	—	100%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	313985	—	381016	—	494802	—	10249	
YEAR TO DATE TOTAL	2825868	—	3429149	—	4453219	—	92239	
PORTAGE PAPERS								
DAILY AVERAGE	4079	163	665	395	1606	—	—	
YEAR TO DATE DAILY AVERAGE	3151	85	268	293	925	—	—	
MONTHLY HIGH	6782 (1)	560 (20)	2455 (20)	705 (15)	2630 (29)	—	—	
MONTHLY LOW	2876 (12)	70 (5)	220 (11)	60 (12)	172 (12)	—	—	
MONTHLY TOTAL	122367	—	19945	—	48193	—	—	
% of 4 INDUSTRY TOTAL	09%	—	03%	—	06%	—	—	
YEAR TO DATE MONTHLY AVERAGE	95596	—	8129	—	28048	—	—	
YEAR TO DATE TOTAL	860369	—	73163	—	252436	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	19049	47	903	215	4085	—	—	
YEAR TO DATE DAILY AVERAGE	18071	49	889	229	4146	—	—	
MONTHLY HIGH	26182 (17)	158 (19)	2656 (19)	318 (21)	5928 (21)	—	—	
MONTHLY LOW	15317 (22)	12 (22)	184 (22)	116 (4)	2205 (4)	—	—	
MONTHLY TOTAL	571484	—	27081	—	122552	—	—	
% OF 4 INDUSTRIAL TOTAL	43%	—	05%	—	15%	—	—	
YEAR TO DATE MONTLY AVERAGE	548167	—	26983	—	125765	—	—	
YEAR TO DATE TOTAL	4933501	—	242845	—	1131886	—	—	
JAMES RIVER								
DAILY AVERAGE	9215	66	603	410	3771	—	—	
YEAR TO DATE DAILY AVERAGE	8393	66	550	376	3158	—	—	
MONTHLY HIGH	13300 (20)	170 (1)	2154 (20)	641 (12)	5695 (20)	—	—	
MONTHLY LOW	5982 (12)	28 (21)	251 (4)	266 (4)	2231 (4)	—	—	
MONTHLY TOTAL	276446	—	18093	—	113118	—	—	
% OF 4 INDUSTRY TOTAL	22%	—	03%	—	13%	—	—	
YEAR TO DATE MONTHLY AVERAGE	254591	—	16687	—	95788	—	—	
YEAR TO DATE TOTAL	2291318	—	150183	—	862093	—	—	
TOTALS	1314727	—	582827	—	834013	—	7874	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	43824	444	19427	635	27800	6	262	

OCTOBER 1994 10; 304; 31

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10846	1199	12992	1457	15727	18	192	
YEAR TO DATE DAILY AVERAGE	10401	1212	12605	1562	16252	31	323	
MONTHLY HIGH	12374 (29)	2700 (11)	28252 (11)	2678 (11)	28017 (11)	316 (11)	373 (11)	
MONTHLY LOW	9242 (3)	420 (2)	4258 (2)	617 (23)	6090 (23)	6 (2)	66 (2)	
MONTHLY TOTAL	336229	—	402745	—	487532	—	5955	
% OF 4 INDUSTRIAL TOTAL	26%	—	82%	—	66%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	316209	—	383189	—	494075	—	9819	
YEAR TO DATE TOTAL	3162097	—	3831894	—	4940751	—	98194	
PORTAGE PAPERS								
DAILY AVERAGE	4107	101	413	294	1205	—	—	
YEAR TO DATE DAILY AVERAGE	3249	87	283	294	953	—	—	
MONTHLY HIGH	6481 (1)	300 (7)	1114 (1)	475 (12)	2557 (12)	—	—	
MONTHLY LOW	2060 (11)	12 (14)	44 (14)	177 (3)	602 (29)	—	—	
MONTHLY TOTAL	127310	—	12817	—	37371	—	—	
% of 4 INDUSTRY TOTAL	10%	—	03%	—	05%	—	—	
YEAR TO DATE MONTHLY AVERAGE	98768	—	8598	—	28981	—	—	
YEAR TO DATE TOTAL	987679	—	85980	—	289807	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	17509	95	1657	184	3212	—	—	
YEAR TO DATE DAILY AVERAGE	18014	54	968	225	4051	—	—	
MONTHLY HIGH	26490 (15)	1410 (20)	20699 (20)	404 (20)	5830 (20)	—	—	
MONTHLY LOW	4920 (21)	10 (9)	222 (16)	71 (23)	359 (21)	—	—	
MONTHLY TOTAL	542790	—	51361	—	99577	—	—	
% OF 4 INDUSTRIAL TOTAL	42%	—	10%	—	14%	—	—	
YEAR TO DATE MONTLY AVERAGE	547629	—	29421	—	123146	—	—	
YEAR TO DATE TOTAL	5476291	—	294206	—	1231463	—	—	
JAMES RIVER								
DAILY AVERAGE	9585	87	832	377	3615	—	—	
YEAR TO DATE DAILY AVERAGE	8515	69	579	376	3204	—	—	
MONTHLY HIGH	18063 (1)	336 (28)	3539 (28)	533 (13)	7058 (1)	—	—	
MONTHLY LOW	6097 (3)	22 (9)	177 (9)	271 (8)	2461 (27)	—	—	
MONTHLY TOTAL	297133	—	25782	—	112076	—	—	
% OF 4 INDUSTRY TOTAL	22%	—	05%	—	15%	—	—	
YEAR TO DATE MONTHLY AVERAGE	258845	—	17956	—	97417	—	—	
YEAR TO DATE TOTAL	2588451	—	179565	—	974169	—	—	
TOTALS	1303462	—	492705	—	736556	—	5955	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	42047	378	15894	565	23760	5	192	

DECEMBER 1994 12;365;31

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10470	1144	11954	1474	15404	21	225	
YEAR TO DATE DAILY AVERAGE	10444	1199	12527	1534	16025	29	308	
MONTHLY HIGH	22785 (7)	2180 (28)	23302 (13)	2948 (28)	31388 (20)	73 (4)	1087 (4)	
MONTHLY LOW	4931 (25)	100 (18)	1036 (25)	400 (25)	1972 (25)	3 (25)	15 (25)	
MONTHLY TOTAL	324563	—	370590	—	477524	—	6975	
% OF Σ INDUSTRIAL TOTAL	26%	—	85%	—	64%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	317667	—	381048	—	487426	—	9372	
YEAR TO DATE TOTAL	3812006	—	4572585	—	5849112	—	112462	
~~ALLIED~~ PORTAGE PAPERS								
DAILY AVERAGE	3973	96	379	251	995	—	—	
YEAR TO DATE DAILY AVERAGE	3312	89	289	291	966	—	—	
MONTHLY HIGH	6765 (15)	380 (14)	2182 (14)	344 (2)	1712 (15)	—	—	
MONTHLY LOW	468 (25)	18 (11)	20 (25)	176 (27)	97 (25)	—	—	
MONTHLY TOTAL	123181	—	11761	—	30857	—	—	
% of Σ INDUSTRY TOTAL	10%	—	03%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	100752	—	8807	—	29383	—	—	
YEAR TO DATE TOTAL	1209029	—	105680	—	352595	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	16417	69	1135	254	4168	—	—	
YEAR TO DATE DAILY AVERAGE	17810	55	984	227	4043	—	—	
MONTHLY HIGH	22860 (18)	164 (14)	2680 (8)	334 (12)	8250 (8)	—	—	
MONTHLY LOW	12490 (27)	24 (26)	376 (17)	138 (10)	2702 (10)	—	—	
MONTHLY TOTAL	508930	—	35197	—	129205	—	—	
% OF Σ INDUSTRIAL TOTAL	41%	—	08%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	541728	—	29921	—	122969	—	—	
YEAR TO DATE TOTAL	6500741	—	359052	—	1475628	—	—	
JAMES RIVER								
DAILY AVERAGE	9044	61	551	375	3383	—	—	
YEAR TO DATE DAILY AVERAGE	8658	67	584	375	3251	—	—	
MONTHLY HIGH	12788 (21)	136 (18)	1246 (30)	530 (14)	6181 (21)	—	—	
MONTHLY LOW	3547 (25)	28 (10)	170 (25)	150 (26)	591 (25)	—	—	
MONTHLY TOTAL	280359	—	17080	—	104888	—	—	
% OF Σ INDUSTRY TOTAL	23%	—	04%	—	15%	—	—	
YEAR TO DATE MONTHLY AVERAGE	263351	—	17763	—	98876	—	—	
YEAR TO DATE TOTAL	3160212	—	213156	—	1186513	—	—	
TOTALS	1237033	—	434628	—	742474	—	6975	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	39904	351	14020	600	23950	6	225	

NOVEMBER 1994 11;334;30

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH3-N MG/L	NH3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10845	1138	12336	1325	14361	22	243	
YEAR TO DATE DAILY AVERAGE	10441	1205	12581	1540	16082	30	316	
MONTHLY HIGH	12960 (1)	2700 (11)	29190 (11)	2053 (16)	24231 (16)	47 (20)	481 (16)	
MONTHLY LOW	7064 (26)	150 (6)	1491 (25)	406 (25)	4036 (25)	9 (4)	89 (26)	
MONTHLY TOTAL	325346	—	370101	—	430837	—	7293	
% OF Σ INDUSTRIAL TOTAL	26%	—	87%	—	63%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	317040	—	381999	—	488326	—	9590	
YEAR TO DATE TOTAL	3487443	—	4201995	—	5371588	—	105487	
~~ALLIED~~ PORTAGE PAPERS								
DAILY AVERAGE	3272	81	264	326	1064	—	—	
YEAR TO DATE DAILY AVERAGE	3251	86	281	296	963	—	—	
MONTHLY HIGH	5604 (12)	275 (9)	1142 (9)	454 (5)	1893 (7)	—	—	
MONTHLY LOW	1779 (3)	32 (15)	66 (15)	197 (26)	447 (15)	—	—	
MONTHLY TOTAL	98169	—	7939	—	31931	—	—	
% of Σ INDUSTRY TOTAL	08%	—	02%	—	05%	—	—	
YEAR TO DATE MONTHLY AVERAGE	98713	—	8538	—	29249	—	—	
YEAR TO DATE TOTAL	1085848	—	93919	—	321738	—	—	
GEORGIA PACIFIC								
DAILY AVERAGE	17184	58	988	223	3832	—	—	
YEAR TO DATE DAILY AVERAGE	17939	54	969	224	4031	—	—	
MONTHLY HIGH	21950 (11)	205 (28)	2665 (28)	322 (3)	5780 (3)	—	—	
MONTHLY LOW	13000 (28)	14 (5)	236 (5)	126 (7)	2106 (1)	—	—	
MONTHLY TOTAL	515520	—	29649	—	114960	—	—	
% OF Σ INDUSTRIAL TOTAL	42%	—	07%	—	17%	—	—	
YEAR TO DATE MONTLY AVERAGE	544710	—	29441	—	122402	—	—	
YEAR TO DATE TOTAL	5991811	—	323855	—	1346423	—	—	
JAMES RIVER								
DAILY AVERAGE	9713	57	550	369	3582	—	—	
YEAR TO DATE DAILY AVERAGE	8622	68	587	375	3238	—	—	
MONTHLY HIGH	16261 (14)	128 (1)	1375 (1)	509 (13)	6592 (11)	—	—	
MONTHLY LOW	6628 (11)	18 (6)	112 (6)	277 (24)	2428 (23)	—	—	
MONTHLY TOTAL	291402	—	16511	—	107456	—	—	
% OF Σ INDUSTRY TOTAL	24%	—	04%	—	15%	—	—	
YEAR TO DATE MONTHLY AVERAGE	261805	—	17825	—	98329	—	—	
YEAR TO DATE TOTAL	2879853	—	196076	—	1081625	—	—	
TOTALS	1230437	—	424200	—	685184	—	7293	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	41014	345	14140	557	22839	6	243	

GEORGIA PACIFIC

1992	FLOW (M^3)			SUSPENDED SOLIDS			BOD			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	16256	20648 (14)	9904 (1)	109	198 (17)	1765	146	235 (31)	2345	—	—	—		
FEB.	16800	22071 (25)	9798 (22)	81	330 (19)	1358	149	322 (12)	2511	—	—	—		
MARCH	16787	20462 (3)	13406 (15)	130	312 (26)	2180	166	292 (2)	2791	—	—	—		
APRIL	16806	21574 (24)	7941 (5)	94	174 (7)	1579	191	308 (27)	3204	—	—	—		
MAY	16393	21067 (13)	16556 (10)	72	114 (6)	1174	160	241 (25)	2628	—	—	—		
JUNE	15316	24801 (16)	6630 (13)	83	164 (18)	1269	202	285 (2)	3085	—	—	—		
JULY	13908	20967 (14)	1248 (8)	86	144 (22)	1198	187	266 (2)	2607	—	—	—		
AUG.	18390	21528 (26)	15164 (2)	96	288 (13)	1766	244	391 (10)	4485	—	—	—		
SEPT.	18294	23651 (14)	22605 (30)	105	280 (16)	1928	212	313 (15)	3880	—	—	—		
OCT.	18019	25956 (17)	2116 (1)	103	282 (19)	1863	184	297 (10)	3326	—	—	—		
NOV.	17481	26984 (18)	8522 (8)	75	186 (16)	1306	220	401 (13)	3853	—	—	—		
DEC.	18345	24882 (1)	10638 (27)	69	147 (20)	1269	192	276 (30)	3512	—	—	—		
1993														
JAN.	20156	24838 (17)	16887 (20)	90	146 (7)	1808	188	268 (10)	3787	—	—	—		
FEB.	20853	25195 (24)	16479 (8)	100	132 (2)	2093	162	235 (9)	3376	—	—	—		
MARCH	21126	28524 (12)	18270 (21)	59	90 (3)	1240	183	296 (30)	3864	—	—	—		
APRIL	21063	24118 (26)	17613 (8)	89	168 (25)	1878	198	250 (29)	4180	—	—	—		
MAY	20842	24599 (16)	18526 (21)	101	230 (23)	2101	201	317 (14)	4166	—	—	—		
JUNE	21242	27639 (21)	19140 (10)	66	280 (15)	1406	214	365 (27)	4554	—	—	—		
JULY	20494	26861 (20)	13111 (21)	62	106 (1)	1263	192	274 (28)	3930	—	—	—		
AUG.	19470	23712 (2)	16095 (22)	69	144 (16)	1345	216	353 (29)	4195	—	—	—		
SEPT.	18998	26676 (26)	14390 (1)	63	112 (7)	1198	205	273 (6)	3893	—	—	—		
OCT.	18881	26712 (13)	15509 (29)	63	160 (24)	1192	226	318 (19)	4272	—	—	—		
NOV.	17682	22712 (4)	15752 (24)	52	118 (11)	925	227	317 (2)	4016	—	—	—		
DEC.	17278	21235 (27)	5101 (25)	46	80 (16)	794	236	339 (30)	4071	—	—	—		

JAMES RIVER

1992	FLOW (M^3)			SUSPENDED SOLIDS			BOD			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	3807	5420(30)	2860(18)	74	126(21)	280	380	1125(23)	1446	—	—	—		
FEB.	4088	5731(15)	2954(1)	89	202(14)	364	344	1139(3)	1400	—	—	—		
MARCH	5771	10401(13)	3380(31)	72	164(4)	417	285	477(2)	1648	—	—	—		
APRIL	4673	6723(24)	3131(6)	56	80(22)	262	369	540(30)	1722	—	—	—		
MAY	5503	7798(18)	3995(10)	52	122(4)	286	402	597(3)	2209	—	—	—		
JUNE	6132	9818(12)	4093(20)	44	66(9)	271	399	591(2)	2446	—	—	—		
JULY	6760	13286(13)	3019(15)	121	1250(15)	818	337	531(10)	2272	—	—	—		
AUG.	8029	12719(27)	5891(8)	41	76(12)	334	393	533(13)	3156	—	—	—		
SEPT.	6641	13623(9)	2163(30)	44	72(19)	294	261	451(28)	1735	—	—	—		
OCT.	4809	10445(3)	1602(20)	31	68(26)	150	238	490(1)	1147	—	—	—		
NOV.	9328	12690(28)	3270(4)	79	186(13)	736	279	458(12)	2594	—	—	—		
DEC.	8644	12065(10)	2593(26)	64	103(2)	556	224	414(24)	1935	—	—	—		
1993														
JAN.	7339	12414(20)	4723(13)	142	1956(18)	1040	277	426(30)	2032	—	—	—		
FEB.	7339	10533(16)	2563(2)	76	230(10)	557	303	454(8)	2221	—	—	—		
MARCH	7614	10690(22)	4386(28)	69	196(7)	524	325	496(5)	2478	—	—	—		
APRIL	6629	9877(29)	4232(4)	71	196(30)	475	368	560(5)	2443	—	—	—		
MAY	6305	10313(5)	4598(29)	77	194(25)	488	347	470(1)	2183	—	—	—		
JUNE	6160	7785(10)	4789(4)	63	136(9)	386	437	630(5)	2614	—	—	—		
JULY	6605	10507(22)	1878(19)	83	688(19)	547	414	560(2)	2722	—	—	—		
AUG.	6806	8009(30)	4555(13)	59	98(29)	355	216	632(14)	2871	—	—	—		
SEPT.	6300	8699(26)	4107(5)	60	192(30)	376	467	756(18)	2943	—	—	—		
OCT.	6062	8722(10)	3990(3)	65	150(12)	394	492	829(8)	2987	—	—	—		
NOV.	6055	7411(15)	3507(24)	59	132(16)	358	487	639(7)	2937	—	—	—		
DEC.	7178	9674(8)	3579(24)	64	266(19)	460	422	610(4)	3022	—	—	—		

UPJOHN

1992	FLOW (M^3)			SUSPENDED SOLIDS			BOD			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	10518	14116 (9)	8480 (2)	1478	3720 (29)	15539	1409	4908 (19)	14822	48	98 (17)	501		
FEB.	11151	13075 (14)	9071 (3)	1714	5260 (12)	19091	1387	2084 (18)	15453	31	47 (15)	348		
MARCH	10677	12605 (11)	8099 (15)	1420	2540 (10)	15164	1298	2977 (29)	13855	35	114 (29)	371		
APRIL	10239	12195 (21)	7534 (5)	1111	1780 (30)	11375	1454	2575 (2)	14878	27	46 (21)	281		
MAY	10995	16230 (1)	8220 (17)	1006	2320 (21)	11038	1253	2060 (13)	13745	21	42 (3)	234		
JUNE	10721	13299 (19)	7442 (21)	2249	9630 (4)	24142	1883	4705 (8)	20211	42	93 (24)	454		
JULY	9975	16564 (29)	6620 (12)	1053	2350 (30)	10497	1494	2274 (9)	14898	25	51 (13)	246		
AUG.	11104	15534 (13)	7218 (9)	1208	3000 (10)	13411	1474	2705 (10)	16360	21	56 (20)	236		
SEPT.	12050	21669 (12)	8456 (20)	1247	3340 (18)	15010	1347	2400 (22)	16211	23	92 (1)	282		
OCT.	10836	17313 (13)	8325 (18)	1016	1900 (18)	10979	1441	2066 (20)	15577	23	41 (29)	249		
NOV.	12961	15499 (25)	8605 (1)	892	1860 (15)	11571	1772	3228 (12)	22983	17	34 (13)	226		
DEC.	11773	15400 (10)	7501 (26)	878	3160 (4)	10335	1345	3121 (4)	15840	15	47 (10)	180		
1993														
JAN.	10715	16096 (6)	5119 (25)	891	1800 (26)	9541	1403	2310 (26)	15034	20	41 (28)	212		
FEB.	9753	10978 (10)	8092 (28)	817	1120 (9)	7970	1328	2650 (28)	12947	35	82 (20)	352		
MARCH	12920	17191 (20)	7677 (1)	959	3060 (20)	12377	1116	1725 (20)	14404	38	82 (25)	495		
APRIL	13123	15922 (29)	10833 (18)	733	1960 (25)	9638	981	1499 (6)	12894	31	99 (11)	410		
MAY	14673	19803 (14)	12296 (10)	1117	2880 (13)	16358	1450	3879 (13)	21248	20	51 (30)	293		
JUNE	11626	11626 AVERAGE FOR ENTIRE MONTH	11626	845	1660 (12)	9802	1380	3879 (11)	16017	17	38 (30)	206		
JULY	11144	12325 (28)	7896 (3)	897	1540 (15)	9984	1319	1920 (21)	4677	28	59 (18)	318		
AUG.	12141	26349 (29)	9254 (8)	1264	12200 (9)	15330	1289	2660 (9)	15636	23	49 (8)	274		
SEPT.	11580	18483 (2)	7951 (5)	1207	3160 (4)	13968	1421	2111 (29)	16437	37	65 (23)	430		
OCT.	10497	12841 (21)	8001 (10)	1162	2640 (16)	12185	1854	3776 (19)	19444	32	51 (31)	336		
NOV.	10258	12329 (13)	8048 (26)	1019	1900 (13)	10459	1574	2159 (9)	16160	38	79 (30)	388		
DEC.	11253	13701 (9)	8860 (24)	921	1860 (18)	10372	1334	1940 (7)	15017	28	66 (1)	317		

PORTAGE PAPERS

MONTH	FLOW (M^3) DAILY AVERAGE	FLOW (M^3) HIGHEST FLOW/ MONTH	FLOW (M^3) LOWEST FLOW/ MONTH	SUSPENDED SOLIDS DAILY AVERAGE CONCEN. (MG/L)	SUSPENDED SOLIDS HIGHEST CONCEN. FOR THE MONTH	SUSPENDED SOLIDS DAILY AVERAGE LOADING (KGS)	BOD DAILY AVERAGE CONCEN. (MG/L)	BOD HIGHEST CONCEN. FOR THE MONTH	BOD DAILY AVERAGE LOADING (KGS)	NH_3 DAILY AVERAGE CONCEN. (MG/L)	NH_3 HIGHEST CONCEN. FOR THE MONTH	NH_3 DAILY AVERAGE LOADING (KGS)	BILLING TOTAL FOR THE MONTH	BILLING YEAR TO DATE TOTAL
JAN.														
FEB.														
MARCH														
APRIL														
MAY														
JUNE														
JULY														
AUG.														
SEPT.														
OCT.														
NOV.														
DEC.														
1993														
JAN.	658	1345(8)	68(24)	243	403(6)	157	335	471(30)	216	—	—	—		
FEB.	781	1651(17)	105(7)	111	213(5)	83	272	367(28)	204	—	—	—		
MARCH	742	2391(1)	22(15)	107	192(22)	80	329	539(10)	244	—	—	—		
APRIL	885	1993(20)	110(5)	109	460(12)	95	401	542(11)	348	—	—	—		
MAY	1101	1569(12)	711(26)	136	450(26)	149	390	634(14)	428	—	—	—		
JUNE	1485	2853(16)	1057(1)	184	1040(15)	270	428	1457(17)	629	—	—	—		
JULY	1821	2795(25)	1170(2)	169	1430(28)	305	401	508(8)	724	—	—	—		
AUG.	1714	2134(29)	1364(8)	242	2370(2)	413	435	573(20)	744	—	—	—		
SEPT.	1588	2065(15)	633(28)	51	116(10)	80	311	499(29)	488	—	—	—		
OCT.	1454	2073(9)	749(19)	45	96(14)	66	452	816(19)	656	—	—	—		
NOV.	1301	2794(22)	410(23)	26	92(9)	34	280	405(15)	364	—	—	—		
DEC.	2487	5305(3)	371(26)	48	132(2)	119	193	430(20)	479	—	—	—		

GEORGIA PACIFIC

1990	FLOW (M^3)			SUSPENDED SOLIDS			CBOD As of March 1, 1986			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	17587	22097 (22)	13630 (6)	144	324 (8)	2528	238	620 (9)	4176	—	—	—	$157,546	$157,546
FEB.	17912	21384 (26)	13650 (16)	170	825 (10)	3046	229	358 (2)	4107	—	—	—	$148,235	$305,781
MARCH	18063	21410 (26)	13542 (11)	147	340 (18)	2665	201	440 (21)	3640	—	—	—	$158,031	$463,812
APRIL	17361	22403 (30)	13821 (1)	141	312 (26)	2446	193	368 (4)	3348	—	—	—	$144,935	$608,747
MAY	18897	21715 (7)	14278 (19)	106	204 (4)	2002	223	345 (6)	4216	—	—	—	$160,236	$768,983
JUNE	16900	19244 (25)	14502 (1)	103	212 (4)	1740	311	1885 (6)	5252	—	—	—	$148,068	$917,051
JULY	18706	23398 (5)	16875 (28)	115	244 (8)	2207	234	420 (4)	4511	—	—	—	$166,567	$1,083,618
AUG.	19619	23293 (13)	16985 (25)	91	164 (6)	1779	225	365 (9)	4418	—	—	—	$163,610	$1,247,228
SEPT.	18228	22105 (11)	16076 (2)	117	340 (28)	2130	239	350 (23)	4347	—	—	—	$153,329	$1,400,557
OCT.	16725	20168 (11)	12473 (27)	107	208 (29)	1792	243	358 (8)	4063	—	—	—	$145,128	$1,545,685
NOV.	18492	21528 (23)	11277 (12)	134	521 (15)	2483	211	380 (15)	3892	—	—	—	$155,584	$1,701,269
DEC.	18963	44370 (3)	0 (2)	140	252 (11)	2658	208	332 (15)	3933	—	—	—	$165,194	$1,866,463
1991														
JAN.	19164	23862 (5)	14888 (27)	137	412 (2)	2633	161	275 (26)	3090	—	—	—	$160,411	$160,411
FEB.	15326	20357 (11)	6792 (15)	128	300 (19)	1968	209	328 (19)	3209	—	—	—		
MARCH	14959	19261 (13)	7195 (25)	107	240 (15)	1604	221	350 (22)	3306	—	—	—		
APRIL	15069	19114 (29)	3632 (11)	102	228 (1)	1543	214	358 (18)	3225	—	—	—		
MAY	14774	21320 (26)	1467 (14)	118	335 (21)	1745	206	373 (2)	3051	—	—	—		
JUNE	18787	25067 (26)	15271 (8)	136	170 (15)	2561	209	345 (15)	3921	—	—	—		
JULY	17038	23775 (3)	11496 (8)	113	336 (19)	1934	188	335 (17)	3208	—	—	—		
AUG.	18193	24948 (10)	11935 (11)	97	228 (10)	1762	186	290 (19)	3386	—	—	—		
SEPT.	18237	20506 (2)	16300 (12)	79	184 (11)	1448	166	268 (27)	3028	—	—	—		
OCT.	17482	21364 (19)	3153 (3)	153	2577 (3)	2680	190	322 (31)	3320	—	—	—		
NOV.	20025	25930 (18)	13710 (23)	178	1110 (13)	3558	133	265 (9)	2669	—	—	—		
DEC.	17860	23099 (9)	13271 (25)	122	332 (12)	2185	161	332 (12)	2870	—	—	—		

JAMES RIVER

1990	FLOW (M^3)			SUSPENDED SOLIDS			CBOD As of March 1, 1986			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	2686	3341 (17)	2157 (6)	88	194 (30)	235	758	1418 (16)	2029	—	—	—	$31,473	$31,473
FEB.	2702	4529 (3)	2040 (16)	118	524 (13)	322	713	1230 (6)	1937	—	—	—	$28,683	$60,156
MARCH	3123	4050 (12)	2119 (31)	81	132 (14)	255	664	1300 (5)	2078	—	—	—	$34,324	$94,480
APRIL	2519	3433 (2)	1727 (28)	98	190 (30)	248	675	1035 (24)	1709	—	—	—	$27,614	$122,094
MAY	2108	3390 (16)	1119 (4)	94	216 (13)	197	1022	1890 (15)	2143	—	—	—	$28,800	$150,894
JUNE	2213	3751 (3)	1371 (16)	81	128 (15)	180	916	2250 (13)	2014	—	—	—	$27,391	$178,285
JULY	2401	6603 (15)	1302 (13)	74	150 (12)	176	706	998 (3)	1685	—	—	—	$27,019	$205,304
AUG.	2791	4142 (4)	1870 (15)	65	138 (21)	180	870	1830 (24)	2413	—	—	—	$34,102	$239,406
SEPT.	2667	4927 (7)	828 (9)	83	300 (12)	222	690	1380 (25)	1840	—	—	—	$28,935	$268,341
OCT.	2454	4040 (10)	1890 (26)	104	250 (16)	256	803	1110 (19)	1969	—	—	—	$30,041	$298,382
NOV.	2742	4701 (28)	2000 (2)	68	212 (20)	185	781	1200 (20)	2135	—	—	—	$30,959	$329,341
DEC.	2584	6072 (3)	0 (2)	99	270 (31)	255	998	1800 (22)	2574	—	—	—	$34,811	$364,152
1991														
JAN.	2638	4890 (18)	903 (27)	199	970 (14)	526	940	1710 (9)	2488	—	—	—	$37,105	$37,105
FEB.	2199	3420 (6)	1456 (20)	114	216 (19)	249	860	1350 (11)	1874	—	—	—		
MARCH	2329	3576 (28)	1640 (21)	99	228 (17)	220	852	1830 (5)	1896	—	—	—		
APRIL	2639	3820 (15)	1955 (13)	138	988 (5)	364	745	1072 (23)	1962	—	—	—		
MAY	2966	5853 (15)	2089 (25)	110	768 (28)	327	867	1970 (28)	2573	—	—	—		
JUNE	2924	4104 (11)	1963 (1)	81	335 (22)	237	805	1080 (8)	2334	—	—	—		
JULY	2791	4926 (12)	164 (9)	118	650 (25)	329	615	862 (31)	1708	—	—	—		
AUG.	2649	4125 (3)	1904 (24)	64	124 (5)	169	720	915 (5)	1905	—	—	—		
SEPT.	3108	5501 (26)	2027 (18)	64	150 (13)	198	618	870 (26)	1917	—	—	—		
OCT.	2990	4935 (23)	2206 (13)	68	154 (3)	205	727	922 (14)	2181	—	—	—		
NOV.	3974	7673 (25)	2967 (28)	69	164 (8)	273	487	855 (14)	1933	—	—	—		
DEC.	4290	7339 (12)	1540 (25)	116	1024 (14)	500	337	540 (18)	1446	—	—	—		

UPJOHN

1990	FLOW (M^3)			SUSPENDED SOLIDS			CBOD As of March 1, 1986			NH_3			BILLING	
MONTH	DAILY AVERAGE	HIGHEST FLOW/ MONTH	LOWEST FLOW/ MONTH	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	DAILY AVERAGE CONCEN. (MG/L)	HIGHEST CONCEN. FOR THE MONTH	DAILY AVERAGE LOADING (KGS)	TOTAL FOR THE MONTH	YEAR TO DATE TOTAL
JAN.	10706	12413 (27)	7031	830	1590 (24)	8892	1130	1748 (16)	12099	32	78 (12)	345	$299,272	$299,272
FEB.	11503	13283 (4)	8686 (8)	852	2640 (13)	9796	1172	2030 (21)	13476	26	49 (25)	297	$393,295	$692,567
MARCH	11295	13147 (15)	9193 (26)	973	1730 (9)	10987	1211	1920 (31)	13677	27	58 (4)	302	$409,403	$1,101,970
APRIL	10304	12553 (27)	7396 (9)	1089	4180 (5)	11222	1106	1830 (17)	11396	43	128 (17)	447	$303,910	$1,405,880
MAY	10587	12555 (11)	7622 (28)	1065	2170 (30)	11270	1341	2364 (20)	14193	31	57 (11)	335	$334,299	$1,740,179
JUNE	11430	13123 (2)	8922 (10)	1070	3050 (22)	12241	1568	3008 (29)	17927	49	87 (23)	566	$371,483	$2,111,662
JULY	10814	2579 (14)	8501 (4)	856	3240 (27)	9253	1624	3683 (27)	17544	64	129 (31)	689	$346,869	$2,458,531
AUG.	11524	14394 (29)	9519 (13)	885	2470 (24)	10190	1661	3525 (30)	19134	46	210 (23)	526	$372,688	$2,831,219
SEPT.	10047	12792 (7)	7116 (3)	1204	2000 (23)	12085	1570	3750 (28)	15753	57	90 (28)	571	$340,576	$3,171,795
OCT.	11055	12522 (9)	8872 (1)	1233	1860 (2)	13599	1413	2010 (9)	15593	49	92 (18)	541	$377,661	$3,549,456
NOV.	11031	13185 (14)	7287 (22)	1136	1920 (16)	12532	1389	2324 (15)	15326	52	96 (2)	573	$350,914	$3,900,370
DEC.	11128	13700 (19)	7730 (25)	665	1165 (6)	7402	1283	3583 (22)	14286	51	121 (17)	571	$304,959	$4,205,329
1991														
JAN.	11282	12994 (28)	8172 (7)	766	1660 (16)	8649	1130	1710 (16)	12755	84	174 (22)	955	$309,865	$309,865
FEB.	11586	13202 (12)	9053 (25)	831	1330 (15)	9620	1501	5925 (18)	17374	65	133 (5)	757		
MARCH	12175	14000 (22)	9333 (17)	969	1620 (14)	11782	1372	4900 (18)	16688	46	78 (12)	567		
APRIL	12503	14500 (16)	10313 (5)	1066	2170 (1)	13327	1272	2625 (1)	15902	39	72 (3)	484		
MAY	12652	14971 (23)	8961 (27)	1000	3190 (24)	12650	1195	2615 (28)	15111	42	71 (5)	528		
JUNE	12578	14550 (20)	10238 (9)	890	1980 (4)	11186	1345	2408 (24)	16902	40	73 (14	502		
JULY	12590	15232 (23)	7506 (6)	923	2180 (	11611	1465	3075 (6)	18436	40	85 (	502		
AUG.	11523	13438 (7)	8384 (25)	1141	4520 (17)	13145	1385	2262 (13)	15948	48	118 (20)	552		
SEPT.	11898	13281 (17)	8315 (2)	1253	2000 (25)	14867	1290	2310 (20)	15347	39	69 (6)	462		
OCT.	11842	14051 (1)	7649 (20)	1215	3020 (7)	14390	1461	2362 (31)	17300	41	79 (24)	492		
NOV.	11330	15303 (13)	7349 (28)	865	2480 (20)	9805	1461	2458	16558	65	93 (2)	739		
DEC.	10605	14186 (1)	7104 (2	989	1580 (5)	10463	1342	1935 (23)	14198	50	105 (23)	535		

JANUARY 1989

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	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10260 2	1140	11695	1833	18807	61	628	$11,430
YEAR TO DATE DAILY AVERAGE	10260 2	1140	11695	1833	18807	61	628	$11,430
MONTHLY HIGH	12783 (26)	2040 (31)	24463 (31)	3158 (12)	36917 (26)	83 (27)	967 (27)	—
MONTHLY LOW	6342 (2)	0 (7)	0 (7)	400 (2)	2536 (2)	20 (2)	126 (2)	—
MONTHLY TOTAL	318143	—	362554	—	583034	—	19485	$354,353
% OF 4 INDUSTRIAL TOTAL	30%	—	84%	—	70%	—	100%	61%
YEAR TO DATE MONTHLY AVERAGE	318143	—	362554	—	583034	—	19485	$354,353
YEAR TO DATE TOTAL	318143	—	362554	—	583034	—	19485	$354,353
ALLIED								
DAILY AVERAGE	2898	31	91	195	565	—	—	$ 901
YEAR TO DATE DAILY AVERAGE	2898	31	91	195	565	—	—	$ 901
MONTHLY HIGH	5589 (14)	90 (19)	413 (14)	275 (19)	1520 (14)	—	—	—
MONTHLY LOW	1231 (7)	2 (6)	3 (6)	100 (18)	135 (7)	—	—	—
MONTHLY TOTAL	89829	—	2835	—	17512	—	—	$27,935
% of 4 INDUSTRY TOTAL	09%	—	01%	—	02%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	89829	—	2835	—	17512	—	—	$27,935
YEAR TO DATE TOTAL	89829	—	2835	—	17512	—	—	$27,935
GEORGIA PACIFIC								
DAILY AVERAGE	17357	111	1940	288	4994	—	—	$ 5,028
YEAR TO DATE DAILY AVERAGE	17357	111	1940	288	4994	—	—	$ 5,028
MONTHLY HIGH	20380 (9)	312 (9)	6358 (9)	400 (12)	7377 (9)	—	—	—
MONTHLY LOW	14772 (14)	24 (2)	452 (2)	190 (20)	3185 (28)	—	—	—
MONTHLY TOTAL	538064	—	60138	—	154825	—	—	$155,878
% OF 4 INDUSTRIAL TOTAL	51%	—	13%	—	19%	—	—	27%
YEAR TO DATE MONTLY AVERAGE	538064	—	60138	—	154825	—	—	$155,878
YEAR TO DATE TOTAL	538064	—	60138	—	154825	—	—	$155,878
JAMES RIVER								
DAILY AVERAGE	3231	79	256	769	2483	—	—	$ 1,215
YEAR TO DATE DAILY AVERAGE	3231	79	256	769	2483	—	—	$ 1,215
MONTHLY HIGH	4293 (18)	152 (22)	494 (22)	1237 (3)	3933 (26)	—	—	—
MONTHLY LOW	2419 (7)	20 (7)	48 (7)	375 (4)	975 (4)	—	—	—
MONTHLY TOTAL	100158	—	7927	—	76962	—	—	$37,668
% OF 4 INDUSTRY TOTAL	10%	—	02%	—	09%	—	—	07%
YEAR TO DATE MONTHLY AVERAGE	100158	—	7927	—	76962	—	—	$37,668
YEAR TO DATE TOTAL	100158	—	7927	—	76962	—	—	$37,668
TOTALS	10461 94	—	433454	—	832333	—	19485	$575,834
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	33748	414	13982	795	26849	18	628	$18,575

FEBRUARY 1989

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	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10855	1026	11145	1761	19117	61	668	$13,629
YEAR TO DATE DAILY AVERAGE	10544	1084	11434	1798	18954	61	647	$12,474
MONTHLY HIGH	15926 (28)	2900 (16)	33587 (16)	2942 (18)	34846 (28)	94 (18)	1179 (21)	—
MONTHLY LOW	8484 (19)	120 (26)	1045 (26)	400 (2)	4552 (2)	25 (6)	222 (6)	—
MONTHLY TOTAL	303957	—	312058	—	535278	—	18710	$381,627
% OF 4 INDUSTRIAL TOTAL	31%	—	79%	—	67%	—	100%	63%
YEAR TO DATE MONTHLY AVERAGE	311050	—	337306	—	559156	—	19097	$36,799
YEAR TO DATE TOTAL	622100	—	674612	—	1118312	—	38195	$735,980
ALLIED								
DAILY AVERAGE	3353	33	112	181	608	—	—	$1,048
YEAR TO DATE DAILY AVERAGE	3114	33	101	188	585	—	—	$971
MONTHLY HIGH	6911 (25)	116 (19)	393 (18)	370 (17)	1501 (17)	—	—	—
MONTHLY LOW	291 (19)	6 (28)	19 (28)	100 (28)	82 (19)	—	—	—
MONTHLY TOTAL	93904	—	3148	—	17032	—	—	$29,343
% of 4 INDUSTRY TOTAL	09%	—	01%	—	02%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	91866	—	2991	—	17272	—	—	$28,639
YEAR TO DATE TOTAL	183733	—	5983	—	34544	—	—	$57,278
GEORGIA PACIFIC								
DAILY AVERAGE	17903	148	2658	337	6026	—	—	$5,589
YEAR TO DATE DAILY AVERAGE	17616	129	2281	311	5484	—	—	$5,294
MONTHLY HIGH	21700 (20)	316 (8)	5397 (8)	480 (1)	9982 (20)	—	—	—
MONTHLY LOW	14010 (25)	104 (2)	871 (11)	225 (24)	3761 (24)	—	—	—
MONTHLY TOTAL	501276	—	74429	—	168729	—	—	$156,503
% OF 4 INDUSTRIAL TOTAL	51%	—	19%	—	21%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	519670	—	67283	—	161777	—	—	$156,191
YEAR TO DATE TOTAL	1039340	—	134567	—	323554	—	—	$312,381
JAMES RIVER								
DAILY AVERAGE	3253	75	245	835	2713	—	—	$1,266
YEAR TO DATE DAILY AVERAGE	3241	77	250	800	2592	—	—	$1,239
MONTHLY HIGH	4452 (15)	136 (20)	474 (20)	982 (2)	3940 (15)	—	—	—
MONTHLY LOW	2547 (10)	20 (11)	63 (11)	608 (26)	1935 (26)	—	—	—
MONTHLY TOTAL	91099	—	6851	—	75973	—	—	$35,453
% OF 4 INDUSTRY TOTAL	09%	—	01%	—	10%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	95628	—	7389	—	76467	—	—	$36,560
YEAR TO DATE TOTAL	191257	—	14778	—	152935	—	—	$73,121
TOTALS	990236	—	396486	—	797012	—	18710	$602,926
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35365	400	14160	805	28464	19	668	$21,533

MARCH 1989

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	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11141	1023	11389	1615	17976	57	632	$ 13,206
YEAR TO DATE DAILY AVERAGE	10750	1062	11418	1733	18617	60	642	$ 12,726
MONTHLY HIGH	13760 (17)	2800 (9)	30699 (9)	4058 (7)	46626 (7)	99 (14)	1224 (14)	—
MONTHLY LOW	8064 (12)	340 (5)	2977 (5)	715 (13)	6371 (13)	26 (20)	245 (5)	—
MONTHLY TOTAL	345375	—	353057	—	557252	—	19590	$409,403
% OF 4 INDUSTRIAL TOTAL	31%	—	80%	—	69%	—	100%	64%
YEAR TO DATE MONTHLY AVERAGE	322492	—	342556	—	558521	—	19261	$381,794
YEAR TO DATE TOTAL	967475	—	1027669	—	1675564	—	57785	$1,145,383
ALLIED								
DAILY AVERAGE	2954	35	103	170	498	—	—	$ 917
YEAR TO DATE DAILY AVERAGE	3059	33	102	182	555	—	—	$ 952
MONTHLY HIGH	5918 (18)	80 (18)	473 (18)	290 (1)	1479 (18)	—	—	—
MONTHLY LOW	76 (13)	8 (29)	2 (13)	100 (3)	10 (13)	—	—	—
MONTHLY TOTAL	91585	—	3189	—	15453	—	—	$28,431
% of 4 INDUSTRY TOTAL	08%	—	01%	—	02%	—	—	04%
YEAR TO DATE MONTHLY AVERAGE	91773	—	3057	—	16666	—	—	$28,570
YEAR TO DATE TOTAL	275318	—	9172	—	49997	—	—	$85,709
GEORGIA PACIFIC								
DAILY AVERAGE	18913	132	2496	268	5076	—	—	$ 5,579
YEAR TO DATE DAILY AVERAGE	18403	130	2355	296	5343	—	—	$ 5,372
MONTHLY HIGH	30100 (30)	6060 (22)	12194 (22)	415 (22)	8467 (29)	—	—	—
MONTHLY LOW	13576 (24)	24 (31)	445 (31)	100 (1)	2083 (1)	—	—	—
MONTHLY TOTAL	586303	—	77365	—	157358	—	—	$171,081
% OF 4 INDUSTRIAL TOTAL	53%	—	17%	—	20%	—	—	27%
YEAR TO DATE MONTLY AVERAGE	541881	—	70644	—	160304	—	—	$161,154
YEAR TO DATE TOTAL	1625643	—	211932	—	480912	—	—	$483,462
JAMES RIVER								
DAILY AVERAGE	2752	93	254	853	2340	—	—	$ 1,101
YEAR TO DATE DAILY AVERAGE	3073	82	252	817	2505	—	—	$ 1,192
MONTHLY HIGH	52660 (29)	164 (1)	565 (1)	1185 (7)	3991 (29)	—	—	—
MONTHLY LOW	2088 (31)	44 (6)	126 (6)	570 (30)	1424 (31)	—	—	—
MONTHLY TOTAL	85327	—	7877	—	72555	—	—	$34,137
% OF 4 INDUSTRY TOTAL	08%	—	02%	—	09%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	92194	—	7551	—	75163	—	—	$35,752
YEAR TO DATE TOTAL	276584	—	22655	—	225490	—	—	$107,258
TOTALS	1108590	—	441488	—	802618	—	19590	$643,052
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35,761	398	14241	724	25891	17	632	$20,745

APRIL 1989

30,120,4

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	12068	875	11086	1229	15572	42	532	$11,888
YEAR TO DATE DAILY AVERAGE	11229	1010	11335	1591	17856	55	614	$12,517
MONTHLY HIGH	15541 (25)	1780 (17)	24539 (18)	2500 (28)	33485 (28)	61 (4)	762 (4)	—
MONTHLY LOW	8828 (2)	24 (27)	330 (27)	420 (17)	4770 (17)	15 (16)	165 (16)	—
MONTHLY TOTAL	380042	—	332606	—	467183	—	15978	$356,658
% OF 4 INDUSTRIAL TOTAL	37%	—	87%	—	67%	—	100%	65%
YEAR TO DATE MONTHLY AVERAGE	336879	—	340068	—	535686	—	18440	$375,510
YEAR TO DATE TOTAL	1347517	—	1360275	—	2142747	—	73763	$1,502,041
ALLIED								
DAILY AVERAGE	1972	26	51	188	370	—	—	$ 628
YEAR TO DATE DAILY AVERAGE	2787	32	89	183	509	—	—	$ 871
MONTHLY HIGH	10064 (18)	68 (1)	181 (18)	350 (4)	1158 (4)	—	—	—
MONTHLY LOW	82 (30)	8 (26)	0 (30)	100 (30)	8 (30)	—	—	—
MONTHLY TOTAL	59153	—	1539	—	11118	—	—	$18,857
% of 4 INDUSTRY TOTAL	06%	—	01%	—	02%	—	—	04%
YEAR TO DATE MONTHLY AVERAGE	83617	—	2677	—	15278	—	—	$ 26,141
YEAR TO DATE TOTAL	334471	—	10711	—	61115	—	—	$104,566
GEORGIA PACIFIC								
DAILY AVERAGE	17001	81	1382	323	5495	—	—	$ 4,892
YEAR TO DATE DAILY AVERAGE	17797	119	2111	302	5381	—	—	$ 5,252
MONTHLY HIGH	24194 (3)	168 (19)	2903 (3)	1140 (5)	22646 (5)	—	—	—
MONTHLY LOW	12860 (15)	10 (9)	172 (9)	188 (7)	2957 (15)	—	—	—
MONTHLY TOTAL	510055	—	41453	—	164847	—	—	$146,783
% OF 4 INDUSTRIAL TOTAL	49%	—	11%	—	23%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	533924	—	63346	—	161439	—	—	$157,561
YEAR TO DATE TOTAL	2135698	—	253385	—	645759	—	—	$630,245
JAMES RIVER								
DAILY AVERAGE	2789	78	219	694	1943	—	—	$ 1,009
YEAR TO DATE DAILY AVERAGE	3002	81	243	788	2364	—	—	$ 1,146
MONTHLY HIGH	4729 (17)	224 (2)	501 (2)	1050 (12)	2930 (5)	—	—	—
MONTHLY LOW	2011 (30)	34 (19)	94 (22)	100 (5)	280 (16)	—	—	—
MONTHLY TOTAL	83685	—	6585	—	58289	—	—	$30,268
% OF 4 INDUSTRY TOTAL	08%	—	01%	—	08%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	90067	—	7310	—	70944	—	—	$ 34,381
YEAR TO DATE TOTAL	360269	—	29240	—	283779	—	—	$137,526
TOTALS	1032935	—	382183	—	701437	—	15978	$552,566
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	34,431	370	12,739	633	23,381	15	532	$18,418

MAY 1989

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	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10758	1064	11433	1376	14779	49	523	$11,099
YEAR TO DATE DAILY AVERAGE	11133	1020	11356	1547	17224	53	596	$12,226
MONTHLY HIGH	14723 (31)	2820 (27)	37396 (31)	3142 (19)	31196 (19)	73 (8)	957 (2)	—
MONTHLY LOW	7359 (29)	210 (8)	1847 (21)	400 (8)	4034 (8)	24 (2)	197 (15)	—
MONTHLY TOTAL	333505	—	354625	—	458140	—	16218	$344,073
% OF 4 INDUSTRIAL TOTAL	32%	—	87%	—	67%	—	100%	62%
YEAR TO DATE MONTHLY AVERAGE	336204	—	342940	—	520177	—	17996	$369,223
YEAR TO DATE TOTAL	1681022	—	1714700	—	2600887	—	89981	$1,846,114
ALLIED								
DAILY AVERAGE	2757	50	137	154	424	—	—	$ 866
YEAR TO DATE DAILY AVERAGE	2781	36	99	177	492	—	—	$ 870
MONTHLY HIGH	7873 (17)	5300 (28)	1854 (31)	1125 (28)	1793 (16)	—	—	—
MONTHLY LOW	0 (29)	6 (4)	0 (29)	100 (6)	0 (29)	—	—	—
MONTHLY TOTAL	85452	—	4237	—	13143	—	—	$26,860
% of 4 INDUSTRY TOTAL	08%	—	01%	—	02%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	83985	—	2990	—	14851	—	—	$26,285
YEAR TO DATE TOTAL	419923	—	14948	—	74258	—	—	$131,426
GEORGIA PACIFIC								
DAILY AVERAGE	17942	76	1372	262	4702	—	—	$ 4,893
YEAR TO DATE DAILY AVERAGE	17827	110	1960	294	5242	—	—	$ 5,178
MONTHLY HIGH	25530 (25)	232 (3)	4394 (3)	382 (24)	7914 (25)	—	—	—
MONTHLY LOW	14428 (27)	22 (4)	380 (6)	115 (29)	1725 (20)	—	—	—
MONTHLY TOTAL	556226	—	42554	—	145783	—	—	$151,684
% OF 4 INDUSTRIAL TOTAL	53%	—	10%	—	21%	—	—	28%
YEAR TO DATE MONTLY AVERAGE	538384	—	59187	—	158308	—	—	$160,385
YEAR TO DATE TOTAL	2691924	—	295939	—	791542	—	—	$781,929
JAMES RIVER								
DAILY AVERAGE	2410	74	176	860	2068	—	—	$ 957
YEAR TO DATE DAILY AVERAGE	2880	80	230	801	2304	—	—	$ 1,107
MONTHLY HIGH	5400 (31)	122 (10)	442 (31)	1320 (24)	4779 (31)	—	—	—
MONTHLY LOW	1825 (24)	30 (5)	73 (20)	300 (29)	610 (29)	—	—	—
MONTHLY TOTAL	74706	—	5459	—	64105	—	—	$29,676
% OF 4 INDUSTRY TOTAL	07%	—	02%	—	10%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	86995	—	6940	—	69577	—	—	$33,440
YEAR TO DATE TOTAL	434975	—	34699	—	347884	—	—	$167,202
TOTALS	1049889	—	406675	—	681171	—	16218	$552,293
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	33,867	387	13,118	649	21,973	15	523	$17,816

JUNE 1989

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	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11482	1010	11580	1391	15947	58	666	$ 11,746
YEAR TO DATE DAILY AVERAGE	11191	1018	11392	1521	17012	54	607	$ 12,146
MONTHLY HIGH	13050 (1)	2840 (1)	30576 (1)	2809 (9)	33927 (9)	21 (12)	220 (12)	—
MONTHLY LOW	9381 (5)	410 (17)	4376 (17)	615 (30)	7086 (30)	97 (21)	1119 (21)	—
MONTHLY TOTAL	344461	—	347397	—	478406	—	19973	$352,374
% OF 4 INDUSTRIAL TOTAL	30%	—	84%	—	64%	—	100%	59%
YEAR TO DATE MONTHLY AVERAGE	337585	—	343683	—	513215	—	18325	$366,415
YEAR TO DATE TOTAL	2025483	—	2062097	—	3079293	—	109954	$2,198,488
ALLIED								
DAILY AVERAGE	4029	32	128	231	931	—	—	$ 1,265
YEAR TO DATE DAILY AVERAGE	2988	35	104	189	564	—	—	$ 936
MONTHLY HIGH	9677 (13)	88 (30)	416 (11)	620 (12)	3702 (12)	—	—	—
MONTHLY LOW	638 (9)	10 (1)	17 (9)	100 (2)	155 (3)	—	—	—
MONTHLY TOTAL	120874	—	3859	—	27920	—	—	$37,966
% of 4 INDUSTRY TOTAL	10%	—	01%	—	04%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	90133	—	3134	—	17030	—	—	$ 28,232
YEAR TO DATE TOTAL	540797	—	18807	—	102178	—	—	$169,392
GEORGIA PACIFIC								
DAILY AVERAGE	19980	99	1975	282	5636	—	—	$ 5,676
YEAR TO DATE DAILY AVERAGE	18184	108	1962	292	5307	—	—	$ 5,261
MONTHLY HIGH	28109 (9)	252 (12)	3733 (8)	610 (21)	11260 (21)	—	—	—
MONTHLY LOW	14487 (17)	36 (17)	521 (17)	115 (19)	2522 (19)	—	—	—
MONTHLY TOTAL	599404	—	59255	—	169026	—	—	$170,296
% OF 4 INDUSTRIAL TOTAL	52%	—	14%	—	23%	—	—	29%
YEAR TO DATE MONTLY AVERAGE	548555	—	59199	—	160101	—	—	$158,704
YEAR TO DATE TOTAL	3291328	—	355194	—	960608	—	—	$952,225
JAMES RIVER								
DAILY AVERAGE	3081	59	90	800	2455	—	—	$ 1,159
YEAR TO DATE DAILY AVERAGE	2914	76	222	800	2329	—	—	$ 1,116
MONTHLY HIGH	5391 (9)	100 (19)	332 (7)	1590 (21)	4453 (21)	—	—	—
MONTHLY LOW	1001 (13)	26 (30)	36 (13)	340 (6)	802 (13)	—	—	—
MONTHLY TOTAL	92451	—	5415	—	73650	—	—	$34,776
% OF 4 INDUSTRY TOTAL	08%	—	01%	—	09%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	87904	—	6686	—	70256	—	—	$33,663
YEAR TO DATE TOTAL	527426	—	40114	—	421534	—	—	$201,978
TOTALS	1157190	—	415926	—	749042	—	19973	$595,412
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	38573	359	13864	647	24968	17	666	$19,847

JULY 1989

31,212, 7

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11093	937	10372	1225	13553	56	624	$ 10,696
YEAR TO DATE DAILY AVERAGE	11176	1006	11244	1477	16507	54	610	$ 11,934
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL	343,887	—	321,529	—	420,151	—	19,359	$331,585
% OF 4 INDUSTRIAL TOTAL	35%	—	88%	—	64%	—	100%	64%
YEAR TO DATE MONTHLY AVERAGE	338481	—	340518	—	499921	—	18473	$ 361,439
YEAR TO DATE TOTAL	2369370	—	2383626	—	3499444	—	129363	$2,530,073
ALLIED								
DAILY AVERAGE	1467	42	60	286	416	—	—	$ 507
YEAR TO DATE DAILY AVERAGE	2765	35	97	196	543	—	—	$ 873
MONTHLY HIGH	6986 (21)	172 (24)	475 (21)	730 (20)	4504 (20)	—	—	—
MONTHLY LOW	112 (16)	2 (20)	1 (16)	100 (4)	27 (8)	—	—	—
MONTHLY TOTAL	45479	—	1880	—	12906	—	—	$15,737
% of 4 INDUSTRY TOTAL	05%	—	01%	—	02%	—	—	03%
YEAR TO DATE MONTHLY AVERAGE	83753	—	2955	—	16440	—	—	$ 26,447
YEAR TO DATE TOTAL	586276	—	20687	—	115084	—	—	$185,129
GEORGIA PACIFIC								
DAILY AVERAGE	16684	68	139	300	5003	—	—	$ 4,646
YEAR TO DATE DAILY AVERAGE	17964	102	1842	293	5262	—	—	$ 5,171
MONTHLY HIGH	22426 (9)	142 (26)	2844 (10)	550 (13)	10274 (13)	—	—	—
MONTHLY LOW	5075 (4)	6 (20)	123 (20)	100 (4)	507 (4)	—	—	—
MONTHLY TOTAL	517215	—	35308	—	155096	—	—	$144,041
% OF 4 INDUSTRIAL TOTAL	52%	—	10%	—	24%	—	—	27%
YEAR TO DATE MONTLY AVERAGE	544077	—	55786	—	159386	—	—	$156,609
YEAR TO DATE TOTAL	3808543	—	390502	—	1115704	—	—	$1,096,216
JAMES RIVER								
DAILY AVERAGE	2373	79	186	901	2121	—	—	$ 966
YEAR TO DATE DAILY AVERAGE	2835	76	216	812	2298	—	—	$ 1,094
MONTHLY HIGH	8411 (10)	124 (10)	1043 (10)	1530 (10)	6763 (5)	—	—	—
MONTHLY LOW	938 (15)	12 (20)	17 (20)	300 (20)	509 (11)	—	—	—
MONTHLY TOTAL	73572	—	5762	—	65766	—	—	$29,945
% OF 4 INDUSTRY TOTAL	08%	—	01%	—	10%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	85857	—	6554	—	69614	—	—	$33,131
YEAR TO DATE TOTAL	600998	—	45876	—	487300	—	—	$231,923
TOTALS	980,153	—	364,479	—	653,919	—	19,359	$521,308
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	31,618	372	11,757	667	21,094	20	624	$16,816

AUGUST 1989

31, 243, 8

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	12,478	698	8690	1160	14443	31	382	$ 10,776
YEAR TO DATE DAILY AVERAGE	11,342	903	10918	1432	16244	51	581	$ 11,787
MONTHLY HIGH	17949 (31)	1450 (16)	20233 (31)	1890 (19)	26951 (19)	77 (1)	978 (1)	—
MONTHLY LOW	8171 (6)	250 (28)	2942 (28)	420 (7)	3543 (7)	0 (21)	0 (21)	—
MONTHLY TOTAL	386838	—	269412	—	447729	—	11833	$334,057
% OF 4 INDUSTRIAL TOTAL	35%	—	86%	—	65%	—	100%	61%
YEAR TO DATE MONTHLY AVERAGE	344526	—	331630	—	493396	—	17643	$358,016
YEAR TO DATE TOTAL	2756208	—	2653038	—	3947173	—	141146	$2,846,130
ALLIED								
DAILY AVERAGE	3444	36	126	233	805	—	—	$ 1,080
YEAR TO DATE DAILY AVERAGE	2852	35	101	202	576	—	—	$ 899
MONTHLY HIGH	10442 (15)	133 (8)	339 (16)	450 (23)	2053 (26)	—	—	—
MONTHLY LOW	1600 (6)	12 (17)	29 (17)	100 (16)	304 (17)	—	—	—
MONTHLY TOTAL	1067466	—	38946	—	249662	—	—	$ 33,484
% of 4 INDUSTRY TOTAL	10%	—	01%	—	04%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	86630	—	3073	—	17505	—	—	$ 27,327
YEAR TO DATE TOTAL	693042	—	24583	—	140046	—	—	$218,613
GEORGIA PACIFIC								
DAILY AVERAGE	17537	64	1122	285	4984	—	—	$ 4,798
YEAR TO DATE DAILY AVERAGE	17910	98	1750	292	5227	—	—	$ 5,123
MONTHLY HIGH	21026 (5)	102 (14)	1813 (2)	420 (9)	7392 (9)	—	—	—
MONTHLY LOW	13637 (19)	30 (2)	533 (12)	165 (24)	2496 (26)	—	—	—
MONTHLY TOTAL	543642	—	34789	—	154519	—	—	$ 148,732
% OF 4 INDUSTRIAL TOTAL	49%	—	11%	—	22%	—	—	28%
YEAR TO DATE MONTLY AVERAGE	544023	—	531661	—	158778	—	—	$ 155,624
YEAR TO DATE TOTAL	4352185	—	4252971	—	1270223	—	—	$1,244,998
JAMES RIVER								
DAILY AVERAGE	2145	87	186	986	2098	—	—	$ 893
YEAR TO DATE DAILY AVERAGE	2747	77	212	828	2273	—	—	$ 1,072
MONTHLY HIGH	3849 (10)	144 (14)	448 (14)	1470 (9)	5012 (19)	—	—	—
MONTHLY LOW	1533 (26)	46 (20)	92 (26)	735 (27)	1162 (26)	—	—	—
MONTHLY TOTAL	66512	—	5775	—	65047	—	—	$28,579
% OF 4 INDUSTRY TOTAL	06%	—	02%	—	09%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	83438	—	6456	—	68043	—	—	$ 32,562
YEAR TO DATE TOTAL	667510	—	51651	—	552347	—	—	$260,502
TOTALS	1,103758	—	313,872	—	692,257	—	11833	$544,852
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35605	284	10,125	627	22,331	11	382	$17,576

SEPTEMBER 1989

30, 273, 9

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11201	747	8365	1240	13888	36	401	$10,091
YEAR TO DATE DAILY AVERAGE	11327	939	10637	1411	15985	49	561	$11,100
MONTHLY HIGH	13930 (6)	1500 (29)	18492 (13)	2055 (2)	22380 (16)	80 (30)	915 (1)	—
MONTHLY LOW	6684 (4)	200 (10)	2148 (10)	440 (11)	4043 (11)	6 (14)	69 (14)	—
MONTHLY TOTAL	336034	—	250954	—	416647	—	12038	$302,742
% OF 4 INDUSTRIAL TOTAL	31%	—	86%	—	66%	—		
YEAR TO DATE MONTHLY AVERAGE	343582	—	322666	—	484868	—	17020	$351,875
YEAR TO DATE TOTAL	3092242	—	2903992	—	4363820	—	153184	$3,166,872
ALLIED								
DAILY AVERAGE	4768	34	163	246	1173	—	—	$1,510
YEAR TO DATE DAILY AVERAGE	3063	35	108	210	642	—	—	$967
MONTHLY HIGH	9658 (12)	144 (15)	578 (28)	510 (19)	2493 (20)	—	—	—
MONTHLY LOW	2229 (22)	2 (12)	19 (12)	30 (24)	262 (24)	—	—	—
MONTHLY TOTAL	143031	—	4868	—	35179	—	—	$45,322
% of 4 INDUSTRY TOTAL	16%	—	02%	—	06%	—	—	
YEAR TO DATE MONTHLY AVERAGE	92897	—	3272	—	19469	—	—	$29,326
YEAR TO DATE TOTAL	836073	—	29451	—	175225	—	—	$263,935
GEORGIA PACIFIC								
DAILY AVERAGE	17043	62	1058	264	4490	—	—	$4,575
YEAR TO DATE DAILY AVERAGE	17815	94	1674	289	5146	—	—	$5,063
MONTHLY HIGH	20998 (29)	300 (24)	4815 (24)	1560 (1)	31928 (1)	—	—	—
MONTHLY LOW	12168 (13)	21 (22)	339 (22)	100 (23)	1513 (23)	—	—	—
MONTHLY TOTAL	511293	—	31755	—	134705	—	—	$137,263
% OF 4 INDUSTRIAL TOTAL	47%	—	11%	—	22%	—	—	
YEAR TO DATE MONTLY AVERAGE	540386	—	50783	—	156103	—	—	$153,585
YEAR TO DATE TOTAL	4863478	—	457046	—	1404928	—	—	$1,382,261
JAMES RIVER								
DAILY AVERAGE	2387	62	147	546	1339	—	—	$783
YEAR TO DATE DAILY AVERAGE	2707	76	205	802	2170	—	—	$1,040
MONTHLY HIGH	4892 (7)	106 (5)	303 (7)	840 (25)	2374 (6)	—	—	—
MONTHLY LOW	1090 (8)	22 (10)	37 (8)	190 (24)	457 (8)	—	—	—
MONTHLY TOTAL	71622	—	4415	—	40172	—	—	$23,513
% OF 4 INDUSTRY TOTAL	06%	—	01%	—	06%	—	—	
YEAR TO DATE MONTHLY AVERAGE	82126	—	6229	—	65835	—	—	$31,557
YEAR TO DATE TOTAL	739132	—	56066	—	592519	—	—	$284,015
TOTALS	1061980	—	291992	—	626703	—	12038	$508,840
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35399	275	9733	591	20,890	11	401	$16,961

OCTOBER 1989

31, 304, 10

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10583	781	8259	2125	22489	31	327	$11,740
YEAR TO DATE DAILY AVERAGE	11251	924	10395	1480	166048	48	537	$11,614
MONTHLY HIGH								—
MONTHLY LOW								—
MONTHLY TOTAL	328082	—	256048	—	697173	—	10137	$363,949
% OF 4 INDUSTRIAL TOTAL	31%	—	84%	—	77%	—		64%
YEAR TO DATE MONTHLY AVERAGE	342032	—	316004	—	506099	—	16332	$353,082
YEAR TO DATE TOTAL	3420324	—	3160040	—	5060993	—	163321	$3,530,821
ALLIED								
DAILY AVERAGE	3895	30	116	238	920	—	—	$1,216
YEAR TO DATE DAILY AVERAGE	3147	34	109	213	670	—	—	$992
MONTHLY HIGH						—	—	—
MONTHLY LOW						—	—	—
MONTHLY TOTAL	120746	—	3595	—	28536	—	—	$37,705
% of 4 INDUSTRY TOTAL	11%	—	01%	—	03%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	95682	—	3304	—	20376	—	—	$30,764
YEAR TO DATE TOTAL	956819	—	33046	—	203761	—	—	$301,640
GEORGIA PACIFIC								
DAILY AVERAGE	17294	71	1228	230	3984	—	—	$4,566
YEAR TO DATE DAILY AVERAGE	17761	91	1628	283	5027	—	—	$5,012
MONTHLY HIGH						—	—	—
MONTHLY LOW						—	—	—
MONTHLY TOTAL	536122	—	38070	—	123501	—	—	$141,550
% OF 4 INDUSTRIAL TOTAL	50%	—	13%	—	14%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	539760	—	49571	—	152843	—	—	$152,381
YEAR TO DATE TOTAL	5399600	—	495116	—	1528429	—	—	$1,523,811
JAMES RIVER								
DAILY AVERAGE	2548	71	179	659	1658	—	—	$892
YEAR TO DATE DAILY AVERAGE	2691	75	202	787	2118	—	—	$1,025
MONTHLY HIGH						—	—	—
MONTHLY LOW						—	—	—
MONTHLY TOTAL	78978	—	5553	—	51416	—	—	$27,648
% OF 4 INDUSTRY TOTAL	08%	—	02%	—	06%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	81811	—	6162	—	64393	—	—	$31,166
YEAR TO DATE TOTAL	818110	—	61619	—	643935	—	—	$311,663
TOTALS	1063928	—	303266	—	900626	—	10137	$570,852
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	34320	285	9782	847	29052	9	327	$18,414

NOVEMBER 1989

30, 334, 11

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9981	716	7135	1360	13620	33	329	
YEAR TO DATE DAILY AVERAGE	11137	907	10102	1471	16376	46	518	
MONTHLY HIGH	12975 (7)	3540 (5)	31690 (5)	3725 (22)	40859 (22)	81 (23)	811 (22)	—
MONTHLY LOW	7108 (24)	10 (27)	74 (27)	400 (25)	2847 (25)	4 (25)	28 (25)	—
MONTHLY TOTAL	299439	—	214048	—	408595	—	9858	
% OF 4 INDUSTRIAL TOTAL	30%	—	76%	—	64%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	338160	—	306735	—	497235	—	15743	
YEAR TO DATE TOTAL	3719763	—	3374088	—	5469588	—	173179	
ALLIED								
DAILY AVERAGE	3308	37	123	212	700	—	—	$1,004
YEAR TO DATE DAILY AVERAGE	3161	35	110	212	673	—	—	$993
MONTHLY HIGH	9095 (9)	130 (6)	982 (6)	375 (13)	2119 (4)	—	—	—
MONTHLY LOW	0 (18)	2 (14)	0 (18)	100 (25)	0 (18)	—	—	—
MONTHLY TOTAL	99245	—	3708	—	20990	—	—	$30,122
% of 4 INDUSTRY TOTAL	10%	—	01%	—	04%	—	—	
YEAR TO DATE MONTHLY AVERAGE	96006	—	3341	—	20432	—	—	$30,161
YEAR TO DATE TOTAL	1056064	—	36754	—	224751	—	—	$331,762
GEORGIA PACIFIC								
DAILY AVERAGE	17265	107	1848	290	5002	—	—	$4,984
YEAR TO DATE DAILY AVERAGE	17717	93	1648	284	5025	—	—	$5,010
MONTHLY HIGH	24359 (13)	226 (3)	4015 (28)	1133 (25)	2325 (25)	—	—	—
MONTHLY LOW	13197 (4)	42 (5)	671 (5)	140 (15)	2713 (15)	—	—	—
MONTHLY TOTAL	517954	—	55447	—	150065	—	—	$149,527
% OF 4 INDUSTRIAL TOTAL	52%	—	20%	—	23%	—	—	
YEAR TO DATE MONTLY AVERAGE	537959	—	50051	—	152590	—	—	$152,121
YEAR TO DATE TOTAL	5917554	—	550563	—	1678494	—	—	$1,673,338
JAMES RIVER								
DAILY AVERAGE	2721	86	235	734	2005	—	—	$1,015
YEAR TO DATE DAILY AVERAGE	2694	76	205	782	2108	—	—	$1,024
MONTHLY HIGH	4281 (14)	124 (13)	392 (6)	1118 (22)	3788 (14)	—	—	—
MONTHLY LOW	1916 (24)	40 (1)	117 (4)	223 (25)	500 (25)	—	—	—
MONTHLY TOTAL	81629	—	7054	—	60160	—	—	$30,478
% OF 4 INDUSTRY TOTAL	08%	—	03%	—	09%	—	—	
YEAR TO DATE MONTHLY AVERAGE	81794	—	6243	—	64008	—	—	$31,104
YEAR TO DATE TOTAL	899739	—	68673	—	704095	—	—	$342,141
TOTALS	998267	—	280257	—	1639810	—	9858	$
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	33276	281	9342	641	21327	10	329	

DECEMBER 1989

31, 365, 12

	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	96826	792	76613	1409	135446	53	506	
YEAR TO DATE DAILY AVERAGE	11008	898	9891	14606	161316	47	517	
MONTHLY HIGH	12009 (7)	1730 (19)	19680 (19)	2592 (7)	31127 (7)	135 (24)	1028 (23)	—
MONTHLY LOW	4962 (25)	210 (2)	2392 (13)	420 (3)	3420 (3)	13 (28)	117 (28)	—
MONTHLY TOTAL	2984066	—	236025	—	419928	—	15702	
% OF #3 INDUSTRIAL TOTAL	34%	—	72%	—	69%	—	100%	
YEAR TO DATE MONTHLY AVERAGE	334847	—	300843	—	490793	—	15740	
YEAR TO DATE TOTAL	40181169	—	36010113	—	58895166	—	188881	
ALLIED								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% of # INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
GEORGIA PACIFIC								
DAILY AVERAGE	16499	159	2614	236	3886	—	—	$ 4,840
YEAR TO DATE DAILY AVERAGE	17614	98	1730	280	4929	—	—	$ 4,995
MONTHLY HIGH	27071 (3)	572 (6)	12319 (6)	380 (14)	10316 (14)	—	—	—
MONTHLY LOW	6581 (27)	38 (2)	419 (25)	100 (25)	658 (27)	—	—	—
MONTHLY TOTAL	511463	—	81027	—	120481	—	—	$150,049
% OF 3# INDUSTRIAL TOTAL	58%	—	25%	—	20%	—	—	
YEAR TO DATE MONTLY AVERAGE	535751	—	52632	—	149914	—	—	$151,949
YEAR TO DATE TOTAL	16429017	—	1631590	—	1798975	—	—	$1,823,387
JAMES RIVER								
DAILY AVERAGE	2473	115	284	903	2244	—	—	$ 1,118
YEAR TO DATE DAILY AVERAGE	2675	79	212	793	2119	—	—	$ 1,032
MONTHLY HIGH	4548 (30)	160 (21)	1442 (24)	1148 (23)	12644 (24)	—	—	—
MONTHLY LOW	956 (27)	46 (25)	50 (25)	300 (25)	2816 (27)	—	—	—
MONTHLY TOTAL	76673	—	8826	—	69552	—	—	$34,667
% OF #3 INDUSTRY TOTAL	08%	—	03%	—	11%	—	—	
YEAR TO DATE MONTHLY AVERAGE	81368	—	6458	—	64696	—	—	$ 31,401
YEAR TO DATE TOTAL	976412	—	77499	—	773647	—	—	$376,808
TOTALS	8866542	—	325878	—	6099961	—	15702	
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	28598	368	10512	688	196766	18	506	

JANUARY 1988

INDUSTRIAL SUMMARY SHEET

31, 31, 1

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10737	1305	14015	1927	20704	52	561	$13,232
YEAR TO DATE DAILY AVERAGE	10737	1305	14015	1927	20704	52	561	$13,232
MONTHLY HIGH	12730 (18)	2660 (21)	30447 (30)	6317 (20)	40782 (19)	103 (8)	1186 (6)	—
MONTHLY LOW	8120 (1)	320 (9)	2640 (9)	600 (10)	5395 (10)	14 (10)	125 (10)	—
MONTHLY TOTAL	332846	—	434472	—	641835	—	17390	$410,213
% OF 4 INDUSTRIAL TOTAL	34%	—	85%	—	73%	—	100%	67%
YEAR TO DATE MONTHLY AVERAGE	332846	—	434472	—	641835	—	17390	$410,213
YEAR TO DATE TOTAL	332846	—	434472	—	641835	—	17390	$410,213
ALLIED								
DAILY AVERAGE	1888	61	115	286	540	—	—	$ 632
YEAR TO DATE DAILY AVERAGE	1888	61	115	286	540	—	—	$ 632
MONTHLY HIGH	4346 (21)	124 (21)	538 (21)	380 (20)	1390 (21)	—	—	—
MONTHLY LOW	210 (30)	12 (26)	16 (30)	195 (26)	46 (30)	—	—	—
MONTHLY TOTAL	58538	—	3555	—	16752	—	—	$ 19,597
% of 4 INDUSTRY TOTAL	6%	—	1%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	58538	—	3555	—	16752	—	—	$ 19,597
YEAR TO DATE TOTAL	58538	—	3555	—	16752	—	—	$ 19,597
GEORGIA PACIFIC								
DAILY AVERAGE	16881	119	2007	275	4642	—	—	$ 4,883
YEAR TO DATE DAILY AVERAGE	16881	119	2007	275	4642	—	—	$ 4,883
MONTHLY HIGH	24797 (17)	304 (4)	5331 (4)	373 (28)	8133 (17)	—	—	—
MONTHLY LOW	13528 (29)	20 (25)	306 (25)	180 (3)	3180 (21)	—	—	—
MONTHLY TOTAL	523299	—	62232	—	143902	—	—	$151,364
% OF 4 INDUSTRIAL TOTAL	54%	—	12%	—	16%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	523299	—	62232	—	143902	—	—	$151,364
YEAR TO DATE TOTAL	523299	—	62232	—	143902	—	—	$151,364
JAMES RIVER								
DAILY AVERAGE	1756	106	185	1398	2436	—	—	$ 929
YEAR TO DATE DAILY AVERAGE	1756	106	185	1398	2436	—	—	$ 929
MONTHLY HIGH	4030 (14)	180 (13)	548 (14)	1830 (25	4473 (14)	—	—	—
MONTHLY LOW	1133 (29)	40 (3)	75 (3)	840 (3)	1312 (15)	—	—	—
MONTHLY TOTAL	54433	—	5727	—	75521	—	—	$28,795
% OF 4 INDUSTRY TOTAL	6%	—	2%	—	9%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	54433	—	5727	—	75521	—	—	$ 28,795
YEAR TO DATE TOTAL	54433	—	5727	—	75521	—	—	$ 28,795
TOTALS	969114	—	505986	—	878010	—	17390	$609,969
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	31261	522	16322	906	28322	52	561	$19,676

FEBRUARY 1988

INDUSTRIAL SUMMARY SHEET

29, 60, 2

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10747	1290	13841	2085	22365	58	630	$13,561
YEAR TO DATE DAILY AVERAGE	10742	1298	13931	2003	21507	55	594	$13,391
MONTHLY HIGH	12958 (8)	2620 (3)	50415 (24)	3700 (22)	40955 (22)	86 (23)	991 (12)	—
MONTHLY LOW	7553 (27)	240 (6)	1981 (6)	545 (6)	4499 (6)	20 (14)	157 (14)	—
MONTHLY TOTAL	311685	—	401411	—	648611	—	18273	$393,295
% OF 4 INDUSTRIAL TOTAL	35%	—	88%	—	74%	—	100%	68%
YEAR TO DATE MONTHLY AVERAGE	322265	—	417941	—	645223	—	17831	$401,754
YEAR TO DATE TOTAL	644531	—	835883	—	1290446	—	35663	$803,508
ALLIED								
DAILY AVERAGE	1900	38	72	308	584	—	—	$634
YEAR TO DATE DAILY AVERAGE	1894	50	94	298	561	—	—	$633
MONTHLY HIGH	3704 (15)	92 (3)	207 (15)	415 (22)	1300 (29)	—	—	—
MONTHLY LOW	379 (6)	4 (13)	6 (13)	145 (3)	108 (6)	—	—	—
MONTHLY TOTAL	55101	—	2098	—	16952	—	—	$18,402
% of 4 INDUSTRY TOTAL	6%	—	1%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	56819	—	2826	—	16852	—	—	$18,999
YEAR TO DATE TOTAL	113639	—	5653	—	33704	—	—	$37,999
GEORGIA PACIFIC								
DAILY AVERAGE	15754	100	1582	301	4739	—	—	$4,555
YEAR TO DATE DAILY AVERAGE	16336	110	1802	287	4689	—	—	$4,724
MONTHLY HIGH	19452 (28)	294 (22)	4894 (22)	460 (29)	7197 (28)	—	—	—
MONTHLY LOW	12460 (26)	34 (26)	423 (26)	200 (4)	2878 (4)	—	—	—
MONTHLY TOTAL	456890	—	45900	—	137442	—	—	$132,094
% OF 4 INDUSTRIAL TOTAL	52%	—	10%	—	16%	—	—	24%
YEAR TO DATE MONTLY AVERAGE	490094	—	54066	—	140672	—	—	$141,729
YEAR TO DATE TOTAL	980189	—	108132	—	281344	—	—	$283,458
JAMES RIVER								
DAILY AVERAGE	2183	99	215	1197	2601	—	—	$ 1,048
YEAR TO DATE DAILY AVERAGE	1962	102	199	1290	2516	—	—	$ 986
MONTHLY HIGH	3411 (23)	192 (15)	416 (29)	1418 (22)	4042 (23)	—	—	—
MONTHLY LOW	1309 (5)	44 (6)	58 (6)	915 (27)	1377 (6)	—	—	—
MONTHLY TOTAL	63314	—	6250	—	75452	—	—	$30,408
% OF 4 INDUSTRY TOTAL	7%	—	1%	—	8%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	58873	—	5988	—	75486	—	—	$29,601
YEAR TO DATE TOTAL	117747	—	11977	—	150973	—	—	$59,203
TOTALS	886990	—	455659	—	878457	—	18273	$574,199
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	30585	513	15712	990	30291	58	630	$19,800

MARCH 1988

INDUSTRIAL SUMMARY SHEET

31, 91, 3

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11175	1066	11907	1864	20805	61	684	$ 12,771
YEAR TO DATE DAILY AVERAGE	10889	1217	13241	1955	21268	40	434	$ 13,180
MONTHLY HIGH	126060 (29)	2620 (18)	31005 (18)	3400 (10)	39926 (10)	101 (21)	1188 (2)	—
MONTHLY LOW	9091 (13)	320 (13)	2909 (13)	1000 (20)	5902 (20)	28 (27)	255 (27)	—
MONTHLY TOTAL	346441	—	369114	—	644980	—	21224	$395,917
% OF 4 INDUSTRIAL TOTAL	32%	—	85%	—	72%	—	100%	64%
YEAR TO DATE MONTHLY AVERAGE	330324	—	401666	—	645142	—	13165	$399,808
YEAR TO DATE TOTAL	990972	—	1204997	—	1935426	—	39497	$1,199,425
ALLIED								
DAILY AVERAGE	3170	39	125	246	778	—	—	$ 999
YEAR TO DATE DAILY AVERAGE	2328	45	104	274	635	—	—	$ 758
MONTHLY HIGH	66612 (24)	132 (9)	470 (23)	368 (31)	2201 (31)	—	—	—
MONTHLY LOW	837 (6)	10 (28)	24 (28)	140 (24)	186 (7)	—	—	—
MONTHLY TOTAL	98275	—	3887	—	24142	—	—	$30,982
% of 4 INDUSTRY TOTAL	9%	—	1%	—	3%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	70638	—	3180	—	19282	—	—	$22,993
YEAR TO DATE TOTAL	211914	—	9540	—	57846	—	—	$68,981
GEORGIA PACIFIC								
DAILY AVERAGE	18389	93	1724	274	5049	—	—	$ 5,166
YEAR TO DATE DAILY AVERAGE	17035	104	1775	282	4811	—	—	$ 4,875
MONTHLY HIGH	266089 (27)	168 (10)	2979 (2)	413 (1)	9608 (27)	—	—	—
MONTHLY LOW	12931 (4)	40 (24)	713 (31)	175 (25)	3161 (5)	—	—	—
MONTHLY TOTAL	570068	—	53450	—	156537	—	—	$160,170
% OF 4 INDUSTRIAL TOTAL	53%	—	12%	—	17%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	516752	—	53860	—	145960	—	—	$147,876
YEAR TO DATE TOTAL	1550257	—	161582	—	437881	—	—	$443,628
JAMES RIVER								
DAILY AVERAGE	2237	90	200	1107	2464	—	—	$ 1,022
YEAR TO DATE DAILY AVERAGE	2056	97	199	1215	2498	—	—	$ 999
MONTHLY HIGH	26671 (13)	184 (24)	433 (24)	1650 (27)	3468 (27)	—	—	—
MONTHLY LOW	1799 (31)	38 (19)	85 (19)	788 (5)	1713 (5)	—	—	—
MONTHLY TOTAL	69374	—	6204	—	76395	—	—	$31,705
% OF 4 INDUSTRY TOTAL	6%	—	2%	—	8%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	62373	—	6060	—	75789	—	—	$30,303
YEAR TO DATE TOTAL	187121	—	18181	—	227368	—	—	$90,908
TOTALS	1084158	—	432655	—	902054	—	21224	$618,774
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	34973	399	13956	832	29098	61	684	$ 19,960

APRIL 1988

INDUSTRIAL SUMMARY SHEET

30, 121, 4

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10397	713	7423	1902	19781	73	760	$ 10,801
YEAR TO DATE DAILY AVERAGE	10767	1096	11799	1941	20899	48	515	$ 12,590
MONTHLY HIGH	13532 (7)	1400 (8)	18226 (8)	3338 (29)	39094 (29)	110 (18)	1184 (8)	—
MONTHLY LOW	6992 (16)	180 (16)	1258 (16)	460 (3)	4193 (3)	22 (3)	200 (3)	—
MONTHLY TOTAL	311932	—	222693	—	593443	—	22806	$324,034
% OF 4 INDUSTRIAL TOTAL	33%	—	82%	—	69%	—	100%	62%
YEAR TO DATE MONTHLY AVERAGE	325724	—	356922	—	632217	—	15575	$380,864
YEAR TO DATE TOTAL	1302904	—	1427690	—	2528869	—	62303	$1,523,459
ALLIED								
DAILY AVERAGE	3052	26	79	242	736	—	—	$ 969
YEAR TO DATE DAILY AVERAGE	2508	39	98	264	461	—	—	$ 810
MONTHLY HIGH	9800 (30)	100 (26)	333 (30)	510 (20)	2409 (29)	—	—	—
MONTHLY LOW	990 (3)	7 (8)	26 (18)	100 (7)	161 (26)	—	—	—
MONTHLY TOTAL	91576	—	2387	—	22090	—	—	$29,074
% of 4 INDUSTRY TOTAL	10%	—	1%	—	3%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	75872	—	2981	—	19984	—	—	$ 24,513
YEAR TO DATE TOTAL	303490	—	11927	—	79936	—	—	$ 98,055
GEORGIA PACIFIC								
DAILY AVERAGE	15897	81	1284	323	5145	—	—	$ 4,576
YEAR TO DATE DAILY AVERAGE	16753	99	1654	292	4894	—	—	$ 4,801
MONTHLY HIGH	18978 (3)	130 (27)	2142 (27)	470 (11)	7422 (11)	—	—	—
MONTHLY LOW	13439 (2)	12 (8)	173 (8)	190 (26)	2804 (26)	—	—	—
MONTHLY TOTAL	476927	—	38537	—	154367	—	—	$137,290
% OF 4 INDUSTRIAL TOTAL	50%	—	14%	—	18%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	506796	—	50029	—	148062	—	—	$ 145,229
YEAR TO DATE TOTAL	2027184	—	200119	—	592248	—	—	$580,918
JAMES RIVER								
DAILY AVERAGE	2170	111	242	1316	2851	—	—	$ 1,109
YEAR TO DATE DAILY AVERAGE	2084	101	210	1241	2586	—	—	$ 1,026
MONTHLY HIGH	3070 (10)	272 (26)	500 (26)	2280 (10)	6999 (10)	—	—	—
MONTHLY LOW	1483 (29)	44 (8)	112 (29)	570 (26)	1048 (26)	—	—	—
MONTHLY TOTAL	65109	—	7266	—	85547	—	—	$33,273
% OF 4 INDUSTRY TOTAL	7%	—	3%	—	10%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	63057	—	6361	—	78228	—	—	$ 31,045
YEAR TO DATE TOTAL	252230	—	25447	—	312915	—	—	$124,181
TOTALS	945544	—	270883	—	855447	—	22806	$523,671
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	31518	287	9029	905	28515	24	760	$17,456

MAY 1988

INDUSTRIAL SUMMARY SHEET

31, 152, 5

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10160	1112	11304	1780	18093	70	715	$ 11,534
YEAR TO DATE DAILY AVERAGE	10644	1100	11698	1911	20327	53	555	$ 12,375
MONTHLY HIGH	12427 (31)	2020 (26)	22563 (24)	4458 (19)	51886 (19)	111 (13)	1242 (31)	—
MONTHLY LOW	6691 (21)	160 (14)	1405 (21)	400 (29)	3005 (29)	16 (30)	142 (30)	—
MONTHLY TOTAL	314967	—	350446	—	560883	—	22166	$357,573
% OF 4 INDUSTRIAL TOTAL	31%	—	88%	—	69%	—	100%	62%
YEAR TO DATE MONTHLY AVERAGE	323574	—	355627	—	617950	—	16894	$376,206
YEAR TO DATE TOTAL	1617871	—	1778136	—	3089752	—	84469	$1,881,032
ALLIED								
DAILY AVERAGE	4957	38	187	211	1044	—	—	$ 1,510
YEAR TO DATE DAILY AVERAGE	3007	39	116	246	739	—	—	$ 953
MONTHLY HIGH	9500 (8)	108 (26)	467 (26)	460 (18)	2121 (18)	—	—	—
MONTHLY LOW	2060 (30)	8 (21)	28 (30)	100 (27)	319 (30)	—	—	—
MONTHLY TOTAL	153684	—	5793	—	32382	—	—	$46,813
% of 4 INDUSTRY TOTAL	15%	—	01%	—	04%	—	—	08%
YEAR TO DATE MONTHLY AVERAGE	91435	—	3544	—	22463	—	—	$ 28,974
YEAR TO DATE TOTAL	457174	—	17720	—	112318	—	—	$144,868
GEORGIA PACIFIC								
DAILY AVERAGE	16282	73	1196	309	5028	—	—	$ 4,595
YEAR TO DATE DAILY AVERAGE	16657	94	1560	295	4922	—	—	$ 4,758
MONTHLY HIGH	23299 (30)	136 (12)	2301 (14)	450 (17)	7739 (17)	—	—	—
MONTHLY LOW	12677 (27)	26 (27)	329 (27)	110 (4)	2100 (4)	—	—	—
MONTHLY TOTAL	504765	—	37064	—	155865	—	—	$142,428
% OF 4 INDUSTRIAL TOTAL	49%	—	09%	—	19%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	506390	—	47437	—	149623	—	—	$144,669
YEAR TO DATE TOTAL	2531949	—	237183	—	748113	—	—	$723,346
JAMES RIVER								
DAILY AVERAGE	1640	135	222	1317	2166	—	—	$ 860
YEAR TO DATE DAILY AVERAGE	1994	107	213	1254	2500	—	—	$ 992
MONTHLY HIGH	2792 (1)	570 (2)	1194 (2)	1770 (17)	4104 (1)	—	—	—
MONTHLY LOW	1184 (24)	36 (16)	47 (16)	818 (4)	1269 (4)	—	—	—
MONTHLY TOTAL	50833	—	6904	—	67163	—	—	$26,653
% OF 4 INDUSTRY TOTAL	05%	—	02%	—	08%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	60612	—	6470	—	76015	—	—	$ 30,167
YEAR TO DATE TOTAL	303063	—	32351	—	380078	—	—	$150,834
TOTALS	1024249	—	400207	—	816293	—	22166	$573,467
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	33040	391	12910	797	26332	22	715	$18,499

JUNE 1988

INDUSTRIAL SUMMARY SHEET

30, 30, 1

NICKAL	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	868	1345	11666	828	717	—	—	$ 711
YEAR TO DATE DAILY AVERAGE	868	1345	11666	828	717	—	—	$ 711
MONTHLY HIGH	1448 (15)	2680 (4)	3285 (6)	1170 (3)	1468 (26)	—	—	—
MONTHLY LOW	201 (12)	50 (11)	49 (11)	365 (5)	137 (19)	—	—	—
MONTHLY TOTAL	26038	—	34974	—	21528	—	—	$ 21,326
% OF 5 INDUSTRIAL TOTAL	2%	—	8%	—	2%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	26038	—	34974	—	21528	—	—	$ 21,326
YEAR TO DATE TOTAL	26038	—	34974	—	21528	—	—	$ 21,326
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% of 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRIAL TOTAL								
YEAR TO DATE MONTLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
TOTALS	1,052,073	—	423,252	—	838,803	—	18767	$592,547
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35,069	402	14,108	797	27,960	18	626	$ 19,751

JUNE 1988

INDUSTRIAL SUMMARY SHEET

30, 182, 6

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	C BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	11058	1045	11528	1793	19780	57	1026	$ 12,273
YEAR TO DATE DAILY AVERAGE	10712	1090	11670	1890	20237	53	567	$ 12,358
MONTHLY HIGH	12306 (16)	2220 (23)	26362 (23)	4950 (23)	58781 (23)	99 (22)	1189 (22)	—
MONTHLY LOW	7312 (19)	225 (25)	2397 (25)	440 (19)	3217 (19)	0 (30)	0 (30)	—
MONTHLY TOTAL	331749	—	345856	—	593397	—	18767	$ 368,186
% OF 5 INDUSTRIAL TOTAL	32%	—	82%	—	71%	—	100%	62%
YEAR TO DATE MONTHLY AVERAGE	324937	—	353999	—	613858	—	17206	$ 374,870
YEAR TO DATE TOTAL	1949620	—	2123992	—	3683149	—	103236	$ 2,249,218
ALLIED								
DAILY AVERAGE	4090	44	181	201	818	—	—	$ 1,275
YEAR TO DATE DAILY AVERAGE	3186	40	127	236	752	—	—	$ 1,006
MONTHLY HIGH	8539 (26)	250 (19)	735 (30)	388 (19)	1494 (26)	—	—	—
MONTHLY LOW	1929 (19)	2 (13)	6 (13)	110 (11)	424 (4)	—	—	—
MONTHLY TOTAL	122707	—	5433	—	24548	—	—	$ 38,264
% of 5 INDUSTRY TOTAL	12%	—	1%	—	3%	—	—	6.5%
YEAR TO DATE MONTHLY AVERAGE	96647	—	3859	—	22811	—	—	$ 30,522
YEAR TO DATE TOTAL	579881	—	23153	—	136866	—	—	$ 183,132
GEORGIA PACIFIC								
DAILY AVERAGE	17626	63	1112	282	4967	—	—	$ 4,807
YEAR TO DATE DAILY AVERAGE	16817	88	1486	293	4929	—	—	$ 4,767
MONTHLY HIGH	25816 (2)	152 (15)	2597 (15)	408 (6)	7297 (28)	—	—	—
MONTHLY LOW	12966 (24)	16 (23)	240 (23)	140 (3)	3060 (17)	—	—	—
MONTHLY TOTAL	528775	—	33364	—	149013	—	—	$ 144,226
% OF 5 INDUSTRIAL TOTAL	50%	—	8%	—	18%	—	—	24.5%
YEAR TO DATE MONTLY AVERAGE	510121	—	45091	—	149521	—	—	$ 144,595
YEAR TO DATE TOTAL	3060724	—	270547	—	897126	—	—	$ 867,572
JAMES RIVER								
DAILY AVERAGE	1427	84	121	1170	1677	—	—	$ 1685
YEAR TO DATE DAILY AVERAGE	1900	104	198	1247	2365	—	—	$ 942
MONTHLY HIGH	2503 (3)	184 (1)	436 (1)	1590 (28)	2914 (1)	—	—	—
MONTHLY LOW	867 (30)	12 (11)	15 (11)	885 (10)	917 (30)	—	—	—
MONTHLY TOTAL	42804	—	3625	—	50317	—	—	$ 20,545
% OF 5 INDUSTRY TOTAL	4%	—	1%	—	6%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	57644	—	5996	—	71733	—	—	$ 28,563
YEAR TO DATE TOTAL	345867	—	35976	—	430395	—	—	$ 171,379
TOTALS (ON NEXT PAGE) WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	↓	↓	↓	↓	↓	↓	↓	↓

INDUSTRIAL SUMMARY SHEET

JULY 1988

31, 61, 2

NICKAL	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	721	1213	861	765	543	—	—	$ 548
YEAR TO DATE DAILY AVERAGE	793	1285	1011	799	629	—	—	$ 628
MONTHLY HIGH	1790 (15)	5930 (2)	2381 (16)	1980 (5)	1754 (5)	—	—	—
MONTHLY LOW	159 (3)	20 (8)	13 (8)	300 (17)	55 (8)	—	—	—
MONTHLY TOTAL	223336	—	26701	—	16838	—	—	$ 17,002
% OF 5 INDUSTRIAL TOTAL	2%	—	6%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	24187	—	30838	—	19183	—	—	$ 19,164
YEAR TO DATE TOTAL	48374	—	61675	—	38366	—	—	$ 38,328
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% of 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRIAL TOTAL								
YEAR TO DATE MONTLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
TOTALS	1100453	—	440691	—	765216	—	13323	$588,943
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35,498	400	14,216	696	24,684	12	430	$ 18,998

INDUSTRIAL SUMMARY SHEET

JULY 1988

31, 213, 7

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	CBOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10530	1081	11367	1533	16119	41	430	$11,165
YEAR TO DATE DAILY AVERAGE	10686	1088	11626	1838	19638	51	547	$12,185
MONTHLY HIGH	12659 (21)	2280 (20)	25127 (20)	2892 (20)	32286 (19)	68 (1)	629 (7)	—
MONTHLY LOW	8175 (31)	300 (8)	3210 (10)	1065 (16)	5966 (16)	14 (16)	125 (16)	—
MONTHLY TOTAL	326443	—	352375	—	499701	—	13323	$346,119
% OF 5 INDUSTRIAL TOTAL	30%	—	80%	—	65%	—	100%	59%
YEAR TO DATE MONTHLY AVERAGE	325152	—	353767	—	597550	—	16651	$370,762
YEAR TO DATE TOTAL	2276063	—	2476367	—	4182850	—	116559	$2,595,337
ALLIED								
DAILY AVERAGE	4624	64	294	202	932	—	—	$1,446
YEAR TO DATE DAILY AVERAGE	3395	45	151	229	778	—	—	$1,070
MONTHLY HIGH	8810 (6)	234 (19)	1462 (6)	430 (12)	2494 (3)	—	—	—
MONTHLY LOW	Ø (4)	Ø (4)	Ø (4)	Ø (4)	Ø (4)	—	—	—
MONTHLY TOTAL	143352	—	9117	—	28894	—	—	$44,821
% of 5 INDUSTRY TOTAL	13%	—	2%	—	4%	—	—	8%
YEAR TO DATE MONTHLY AVERAGE	103319	—	4610	—	23680	—	—	$32,565
YEAR TO DATE TOTAL	723233	—	32270	—	165760	—	—	$227,953
GEORGIA PACIFIC								
DAILY AVERAGE	18026	81	1465	283	5102	—	—	$5,026
YEAR TO DATE DAILY AVERAGE	16993	87	1483	292	4954	—	—	$4,805
MONTHLY HIGH	22657 (24)	206 (26)	4474 (26)	610 (5)	9395 (19)	—	—	—
MONTHLY LOW	13841 (29)	26 (20)	524 (20)	100 (1)	1458 (1)	—	—	—
MONTHLY TOTAL	558807	—	45412	—	158184	—	—	$155,820
% OF 5 INDUSTRIAL TOTAL	51%	—	10%	—	21%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	517076	—	45137	—	150759	—	—	$146,199
YEAR TO DATE TOTAL	3619531	—	315959	—	1055310	—	—	$1,023,392
JAMES RIVER								
DAILY AVERAGE	1597	145	229	1257	1987	—	—	$812
YEAR TO DATE DAILY AVERAGE	1856	109	202	1246	2310	—	—	$923
MONTHLY HIGH	3752 (31)	780 (24)	1321 (24)	2130 (5)	3977 (23)	—	—	—
MONTHLY LOW	883 (21)	12 (8)	12 (8)	300 (10)	441 (10)	—	—	—
MONTHLY TOTAL	49515	—	7086	—	61599	—	—	$25,181
% OF 5 INDUSTRY TOTAL	4%	—	2%	—	8%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	56483	—	6152	—	70285	—	—	$28,080
YEAR TO DATE TOTAL	395382	—	43062	—	491994	—	—	$196,560
TOTALS (ON NEXT PAGE) WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	↓	↓	↓	↓	↓	↓	↓	↓

INDUSTRIAL SUMMARY SHEET

AUGUST 1988

31, 92, 3

NICKAL	FLOW / M3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	760	854	661	949	734	—	—	$ 539
YEAR TO DATE DAILY AVERAGE	782	1141	893	849	664	—	—	$ 598
MONTHLY HIGH	1161 (28)	2090 (8)	1771 (9)	1252 (24)	1349 (28)	—	—	—
MONTHLY LOW	153 (1)	40 (1)	6 (1)	360 (2)	122 (1)	—	—	—
MONTHLY TOTAL	23567	—	20489	—	22770	—	—	$ 16,723
% OF 5 INDUSTRIAL TOTAL	2%	—	5%	—	4%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	23980	—	27388	—	20379	—	—	$ 18,350
YEAR TO DATE TOTAL	71941	—	821164	—	611136	—	—	$ 55,051
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% of 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRIAL TOTAL								
YEAR TO DATE MONTLY AVERAGE								
YEAR TO DATE TOTAL								
DAILY AVERAGE								
YEAR TO DATE DAILY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
MONTHLY TOTAL								
% OF 5 INDUSTRY TOTAL								
YEAR TO DATE MONTHLY AVERAGE								
YEAR TO DATE TOTAL								
TOTALS	1103682	—	404114	—	538141	—	15293	$ 607,429
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	35604	366	13036	487	17359	14	493	$ 19,594

AUGUST 1988

INDUSTRIAL SUMMARY SHEET

31,244,8

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10771	979	10519	693	7443	46	493	$11,614
YEAR TO DATE DAILY AVERAGE	10697	1074	11485	1692	18088	50	540	$12,112
MONTHLY HIGH	12955 (10)	1880 (17)	24124 (17)	3608 (22)	45886 (10)	94 (24)	1052 (4)	—
MONTHLY LOW	6558 (27)	240 (13)	1639 (27)	400 (27)	2623 (27)	18 (27)	118 (27)	—
MONTHLY TOTAL	333918	—	326100	—	230742	—	15293	$360,051
% OF 5 INDUSTRIAL TOTAL	31%	—	81%	—	43%	—	100%	59%
YEAR TO DATE MONTHLY AVERAGE	326248	—	350308	—	551699	—	16481	$369,423
YEAR TO DATE TOTAL	2609981	—	2802467	—	4413592	—	131852	$2,955,388
ALLIED								
DAILY AVERAGE	4794	77	368	284	1358	—	—	$1,573
YEAR TO DATE DAILY AVERAGE	3573	50	179	852	852	—	—	$1,134
MONTHLY HIGH	8900 (3)	378 (14)	1939 (14)	420 (4)	3399 (3)	—	—	—
MONTHLY LOW	3643 (2)	Ø (12)	Ø (2)	120 (18)	657 (16)	—	—	—
MONTHLY TOTAL	148618	—	11431	—	42122	—	—	$48,775
% of 5 INDUSTRY TOTAL	13%	—	3%	—	8%	—	—	8%
YEAR TO DATE MONTHLY AVERAGE	108981	—	54602	—	25985	—	—	$34,591
YEAR TO DATE TOTAL	871851	—	43701	—	207882	—	—	$276,728
GEORGIA PACIFIC								
DAILY AVERAGE	17346	76	1318	306	5313	—	—	$4,897
YEAR TO DATE DAILY AVERAGE	17038	96	1630	293	5000	—	—	$4,816
MONTHLY HIGH	23355 (8)	132 (30)	2738 (7)	450 (24)	8010 (14)	—	—	—
MONTHLY LOW	12460 (26)	30 (28)	575 (28)	168 (5)	3499 (6)	—	—	—
MONTHLY TOTAL	537728	—	40864	—	164716	—	—	$151,816
% OF 5 INDUSTRIAL TOTAL	49%	—	10%	—	31%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	519657	—	49711	—	152503	—	—	$146,901
YEAR TO DATE TOTAL	4157259	—	397687	—	1220026	—	—	$1,175,208
JAMES RIVER								
DAILY AVERAGE	1931	88	169	1318	2509	—	—	$970
YEAR TO DATE DAILY AVERAGE	1864	106	198	1252	2335	—	—	$929
MONTHLY HIGH	3574 (27)	224 (14)	546 (14)	1950 (23)	4610 (27)	—	—	—
MONTHLY LOW	1222 (19)	16 (20)	22 (20)	975 (6)	1485 (15)	—	—	—
MONTHLY TOTAL	59851	—	5230	—	77791	—	—	$30,064
% OF 5 INDUSTRY TOTAL	5%	—	1%	—	14%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	56904	—	6036	—	71223	—	—	$28,328
YEAR TO DATE TOTAL	455233	—	48272	—	569785	—	—	$226,624
TOTALS WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	↓	↓	↓	↓	↓	↓	↓	↓

SEPTEMBER 1988 INDUSTRIAL SUMMARY SHEET 30, 274, 9

UPJOHN	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	10404	1110	11544	1947	20246	54	561	$ 12,257
YEAR TO DATE DAILY AVERAGE	10604	1078	11492	1718	18325	51	543	$ 12,128
MONTHLY HIGH	12806 (19)	2460 (7)	27859 (7)	3708 (6)	42712 (6)	96 (28)	1093 (19)	—
MONTHLY LOW	5501 (4)	95 (4)	522 (4)	1000 (11)	5218 (11)	2 (4)	11 (4)	—
MONTHLY TOTAL	312136	—	346324	—	607375	—	16846	$367,698
% OF 4 INDUSTRIAL TOTAL	30%	—	84%	—	72%	—	100%	63%
YEAR TO DATE MONTHLY AVERAGE	324680	—	349866	—	557885	—	16522	$369,232
YEAR TO DATE TOTAL	2922117	—	3148791	—	5020967	—	148698	$3,323,086
ALLIED								
DAILY AVERAGE	4055	40	163	258	1040	—	—	$ 1,279
YEAR TO DATE DAILY AVERAGE	3626	49	177	241	873	—	—	$ 1,150
MONTHLY HIGH	5554 (9)	126 (18)	491 (18)	470 (15)	2188 (15)	—	—	—
MONTHLY LOW	2333 (24)	2 (23)	4 (24)	115 (10)	550 (20)	—	—	—
MONTHLY TOTAL	121651	—	4878	—	31207	—	—	$ 38,381
% of 4 INDUSTRY TOTAL	12%	—	1%	—	4%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	110389	—	5398	—	26565	—	—	$ 35,012
YEAR TO DATE TOTAL	993502	—	48579	—	239089	—	—	$315,109
GEORGIA PACIFIC								
DAILY AVERAGE	17149	102	1755	265	4532	—	—	$ 4,829
YEAR TO DATE DAILY AVERAGE	17050	96	1643	290	4949	—	—	$ 4,818
MONTHLY HIGH	21050 (5)	268 (13)	5289 (13)	372 (9)	7233 (19)	—	—	—
MONTHLY LOW	13167 (16)	22 (24)	293 (24)	180 (15)	2527 (15)	—	—	—
MONTHLY TOTAL	514465	—	52639	—	135959	—	—	$ 144,861
% OF 4 INDUSTRIAL TOTAL	50%	—	13%	—	16%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	519080	—	50036	—	150665	—	—	$ 146,674
YEAR TO DATE TOTAL	4671724	—	450326	—	1355985	—	—	$1,320,069
JAMES RIVER								
DAILY AVERAGE	2815	82	229	864	2418	—	—	$ 1,121
YEAR TO DATE DAILY AVERAGE	1970	102	201	1192	2344	—	—	$ 950
MONTHLY HIGH	6674 (22)	184 (18)	504 (29)	1980 (2)	5878 (2)	—	—	—
MONTHLY LOW	1421 (5)	20 (3)	65 (3)	315 (5)	447 (5)	—	—	—
MONTHLY TOTAL	84458	—	6868	—	72541	—	—	$ 33,628
% OF 4 INDUSTRY TOTAL	8%	—	2%	—	8%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	59966	—	6129	—	71369	—	—	$ 28,917
YEAR TO DATE TOTAL	539691	—	55160	—	642326	—	—	$260,252
TOTALS	1032710	—	410709	—	847082	—	16846	$584,568
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	34424	398	13690	821	28236	16	561	$19,485

OCTOBER 1988 INDUSTRIAL SUMMARY SHEET 31, 305, 10

UPJOHN	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	10222	1300	13300	1810	18512	60	616	$12,356
YEAR TO DATE DAILY AVERAGE	10619	1099	11675	1727	18343	52	550	$12,151
MONTHLY HIGH	13681 (10)	3060 (11)	30109 (31)	5983 (31)	63431 (31)	108 (18)	1185 (18)	—
MONTHLY LOW	6699 (22)	100 (15)	940 (15)	400 (22)	2679 (22)	3 (22)	20 (22)	—
MONTHLY TOTAL	316887	—	412299	—	573885	—	19104	$383,045
% OF 4 INDUSTRIAL TOTAL	31%	—	85%	—	68%	—	100%	64%
YEAR TO DATE MONTHLY AVERAGE	323900	—	356109	—	559485	—	16780	$370,613
YEAR TO DATE TOTAL	3239002	—	3561090	—	5594852	—	167802	$3,706,131
ALLIED								
DAILY AVERAGE	3311	32	106	304	1002	—	—	$1,064
YEAR TO DATE DAILY AVERAGE	3594	47	170	246	885	—	—	$1,141
MONTHLY HIGH	6604 (31)	72 (6)	383 (31)	480 (6)	2238 (5)	—	—	—
MONTHLY LOW	748 (13)	2 (25)	5 (26)	195 (9)	215 (15)	—	—	—
MONTHLY TOTAL	102655	—	3310	—	31073	—	—	$32,991
% of 4 INDUSTRY TOTAL	10%	—	01%	—	04%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	109616	—	5189	—	27016	—	—	$34,810
YEAR TO DATE TOTAL	1096157	—	51889	—	270162	—	—	$348,100
GEORGIA PACIFIC								
DAILY AVERAGE	16040	119	1913	319	5123	—	—	$4,800
YEAR TO DATE DAILY AVERAGE	16947	99	1671	293	4966	—	—	$4,816
MONTHLY HIGH	23453 (9)	260 (17)	4576 (17)	460 (14)	8146 (16)	—	—	—
MONTHLY LOW	4315 (10)	33 (2)	457 (10)	228 (8)	1277 (10)	—	—	—
MONTHLY TOTAL	497253	—	59311	—	158814	—	—	$148,823
% OF 4 INDUSTRIAL TOTAL	49%	—	12%	—	19%	—	—	25%
YEAR TO DATE MONTLY AVERAGE	516898	—	50963	—	151480	—	—	$146,889
YEAR TO DATE TOTAL	5168977	—	509637	—	1514799	—	—	$1,468,892
JAMES RIVER								
DAILY AVERAGE	3117	87	269	822	2546	—	—	$1,214
YEAR TO DATE DAILY AVERAGE	2086	100	208	1134	2364	—	—	$977
MONTHLY HIGH	5118 (17)	180 (31)	614 (17)	1012 (26)	3838 (17)	—	—	—
MONTHLY LOW	2087 (18)	20 (29)	59 (29)	300 (13)	774 (13)	—	—	—
MONTHLY TOTAL	96647	—	8347	—	78928	—	—	$37,633
% OF 4 INDUSTRY TOTAL	10%	—	02%	—	09%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	103633	—	6350	—	72125	—	—	$29,788
YEAR TO DATE TOTAL	1036338	—	63507	—	721254	—	—	$297,885
TOTALS	1013442	—	483267	—	842700	—	19104	$602,492
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	32692	477	15589	832	27184	19	616	$19,435

NOVEMBER 1988 INDUSTRIAL SUMMARY SHEET 30,335,11

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	10393	1050	10926	1980	20597	75	779	$12,244
YEAR TO DATE DAILY AVERAGE	10599	1095	11608	1750	18545	54	570	$12,159
MONTHLY HIGH	11950 (22)	3280 (8)	35073 (8)	4733 (7)	56095 (7)	134 (16)	1479 (16)	—
MONTHLY LOW	8511 (24)	80 (12)	729 (12)	560 (13)	4846 (13)	11 (6)	95 (6)	—
MONTHLY TOTAL	311800	—	327789	—	617929	—	23367	$367,346
% OF 4 INDUSTRIAL TOTAL	30%	—	80%	—	69%	—		62%
YEAR TO DATE MONTHLY AVERAGE	322800	—	353535	—	564798	—	17379	$370,316
YEAR TO DATE TOTAL	3550804	—	3888879	—	6212781	—	191169	$4,073,477
ALLIED								
DAILY AVERAGE	3807	34	132	201	763	—	—	$1,178
YEAR TO DATE DAILY AVERAGE	3613	46	167	242	875	—	—	$1,144
MONTHLY HIGH	6218 (2)	140 (16)	612 (16)	322 (7)	1479 (2)	—	—	—
MONTHLY LOW	778 (6)	2 (1)	16 (1)	120 (11)	175 (6)	—	—	—
MONTHLY TOTAL	114200	—	3969	—	22906	—	—	$35,355
% of 4 INDUSTRY TOTAL	11%	—	01%	—	03%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	110032	—	5078	—	26642	—	—	$34,860
YEAR TO DATE TOTAL	1210357	—	55858	—	293068	—	—	$383,455
GEORGIA PACIFIC								
DAILY AVERAGE	17252	138	2386	323	5575	—	—	$5,279
YEAR TO DATE DAILY AVERAGE	16975	102	1735	296	5021	—	—	$4,857
MONTHLY HIGH	20825 (22)	435 (8)	7359 (26)	450 (27)	8326 (27)	—	—	—
MONTHLY LOW	12782 (18)	52 (18)	664 (18)	222 (11)	2939 (18)	—	—	—
MONTHLY TOTAL	517576	—	71587	—	167265	—	—	$158,373
% OF 4 INDUSTRIAL TOTAL	50%	—	17%	—	19%	—	—	26%
YEAR TO DATE MONTLY AVERAGE	516959	—	52838	—	152915	—	—	$147,933
YEAR TO DATE TOTAL	5686553	—	581224	—	1682064	—	—	$1,627,265
JAMES RIVER								
DAILY AVERAGE	3138	104	326	883	2768	—	—	$1,284
YEAR TO DATE DAILY AVERAGE	2180	100	219	1101	2401	—	—	$1,004
MONTHLY HIGH	4759 (9)	224 (29)	531 (29)	1923 (2)	6120 (2)	—	—	—
MONTHLY LOW	2371 (29)	100 (1)	163 (1)	638 (10)	1528 (10)	—	—	—
MONTHLY TOTAL	94151	—	9770	—	83053	—	—	$38,538
% OF 4 INDUSTRY TOTAL	09%	—	02%	—	09%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	60408	—	6661	—	73118	—	—	$30,584
YEAR TO DATE TOTAL	730489	—	73277	—	804307	—	—	$336,423
TOTALS	1037727	—	413115	—	891153	—	23367	$599,612
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	34591	398	13770	858	29705	22	779	$19,987

DECEMBER 1988 INDUSTRIAL SUMMARY SHEET 31, 366, 12

UPJOHN	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	9727	978	9496	1885	18300	72	700	$ 10,911
YEAR TO DATE DAILY AVERAGE	10526	1086	11430	1760	18525	55	582	$ 12,054
MONTHLY HIGH	13101 (13)	1840 (4)	20630 (14)	3208 (28)	35034 (28)	114 (7)	1163 (7)	—
MONTHLY LOW	6822 (24)	130 (17)	1011 (11)	460 17	3591 (17)	26 (17)	177 (24)	—
MONTHLY TOTAL	301543	—	294384	—	567289	—	21713	$338,234
% OF 4 INDUSTRIAL TOTAL	29%	—	79%	—	70%	—	100%	60%
YEAR TO DATE MONTHLY AVERAGE	321029	—	348605	—	565006	—	17740	$367,643
YEAR TO DATE TOTAL	3852347	—	4183263	—	6780070	—	212882	$4,411,711
ALLIED								
DAILY AVERAGE	2994	26	78	192	576	—	—	$ 928
YEAR TO DATE DAILY AVERAGE	3561	45	159	239	850	—	—	$ 1,126
MONTHLY HIGH	5565 (23)	86 (31)	245 (23)	328 (14)	1509 (1)	—	—	—
MONTHLY LOW	1140 (20)	2 (19)	5 (19)	105 (17)	164 (18)	—	—	—
MONTHLY TOTAL	92888	—	2428	—	17854	—	—	$28,775
% of 4 INDUSTRY TOTAL	09%	—	01%	—	02%	—	—	05%
YEAR TO DATE MONTHLY AVERAGE	108604	—	4857	—	25910	—	—	$34,353
YEAR TO DATE TOTAL	1303245	—	58286	—	310922	—	—	$412,230
GEORGIA PACIFIC								
DAILY AVERAGE	18224	121	2212	268	4888	—	—	$ 5,257
YEAR TO DATE DAILY AVERAGE	17081	104	1775	293	5010	—	—	$ 4,891
MONTHLY HIGH	26681 (26)	288 (29)	5496 (29)	330 (2)	8484 (26)	—	—	—
MONTHLY LOW	12030 (25)	40 (3)	718 (3)	100 (25)	1203 (25)	—	—	—
MONTHLY TOTAL	564929	—	68580	—	151533	—	—	$162,971
% OF 4 INDUSTRIAL TOTAL	54	—	18%	—	19%	—	—	29%
YEAR TO DATE MONTLY AVERAGE	520957	—	54150	—	152800	—	—	$149,186
YEAR TO DATE TOTAL	6251482	—	649804	—	1833597	—	—	$1,790,236
JAMES RIVER								
DAILY AVERAGE	2659	90	239	859	2272	—	—	$ 1,065
YEAR TO DATE DAILY AVERAGE	2221	99	220	1076	2390	—	—	$ 1,089
MONTHLY HIGH	4776 (27)	224 (12)	648 (12)	1410 (11)	4485 (11)	—	—	—
MONTHLY LOW	1741 (10)	32 (24)	66 (24)	300 (15)	759 (15)	—	—	—
MONTHLY TOTAL	82428	—	7449	—	70429	—	—	$ 33,024
% OF 4 INDUSTRY TOTAL	08%	—	02%	—	09%	—	—	06%
YEAR TO DATE MONTHLY AVERAGE	67743	—	6725	—	72895	—	—	$ 30,787
YEAR TO DATE TOTAL	812917	—	80696	—	874736	—	—	$369,447
TOTALS	1041788	—	372811	—	807105	—	21713	$563,004
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	33606	358	12026	775	26036	21	700	$18,161

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January 1987

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	7444	1572	11706	2239	166669	69	517	$ 9649.
YEAR TO ~~YEAR~~ DAILY AVERAGE	7444	1572	11706	2239	166669	69	517	$ 9649.
MONTHLY HIGH	9356 (23)	5680 (8)	47365 (8)	4417 (8)	36833 (8)	119 (6)	910 (6)	—
MONTHLY LOW	4700 (3)	40 (3)	188 (3)	300 (3)	1410 (3)	6 (3)	28 (3)	—
MONTHLY TOTAL	230779	—	362888	—	516728	—	16019	$299,110
% OF 4 INDUSTRIAL TOTAL	30%	—	92%	—	70%	—	16%	
YEAR TO DATE MONTHLY AVERAGE	230779	—	362888	—	516728	—	16019	$299,110
YEAR TO DATE TOTAL	230779	—	362888	—	516728	—	16019	$299,110
ALLIED								
DAILY AVERAGE	2226	30	67	210	467	—	—	$ 6065.
YEAR TO DATE AVERAGE	2226	30	67	210	467	—	—	$ 6065.
MONTHLY HIGH	3671 (3)	244 (6)	592 (6)	415 (7)	837 (7)	—	—	—
MONTHLY LOW	1313 (24,25)	1 (21)	2 (21)	70 (10)	134 (25)	—	—	—
MONTHLY TOTAL	69003	—	2072	—	14486	—	—	$20611.
% of 4 INDUSTRY TOTAL	9%	—	1%	—	2%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	69003	—	2072	—	14486	—	—	$20611.
YEAR TO DATE TOTAL	69003	—	2072	—	14486	—	—	$20611.
GEORGIA PACIFIC								
DAILY AVERAGE	13254	50	665	301	3989	—	—	$ 3033.
YEAR TO DATE DAILY AVERAGE	13254	50	665	301	3989	—	—	$ 3033.
MONTHLY HIGH	19260 (8)	126 (22)	1977 (22)	720 (7)	9158 (7)	—	—	—
MONTHLY LOW	9932 (16)	8 (1,5)	98 (5)	180 (10)	2127 (10)	—	—	—
MONTHLY TOTAL	410886	—	20623	—	123648	—	—	$94035.
% OF 4 INDUDTRIAL TOTAL	52%	—	5%	—	17%	—	—	21%
YEAR TO DATE MONTLY AVERAGE	410886	—	20623	—	123648	—	—	$94035.
YEAR TO DATE TOTAL	410886	—	20623	—	123648	—	—	$94035.
JAMES RIVER								
DAILY AVERAGE	2267	92	209	1128	2559	—	—	$ 937.
YEAR TO DATE DAILY AVERAGE	2267	92	209	1128	2559	—	—	$ 937.
MONTHLY HIGH	3441 (1)	480 (29)	1109 (29)	2700 (15)	6391 (15)	—	—	—
MONTHLY LOW	1448 (23)	32 (16)	58 (9)	318 (10)	574 (10)	—	—	—
MONTHLY TOTAL	70277	—	6492	—	79323	—	—	$29052.
% OF 4 INDUSTRY TOTAL	9%	—	2%	—	11%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	70277	—	6492	—	79323	—	—	$29052.
YEAR TO DATE TOTAL	70277	—	6492	—	79323	—	—	$29052.
TOTALS	780945	—	392075	—	734185	—	16019	$442808
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	25,191	502	12,647	940	23,683	69	517	$14,284

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FEBRUARY 1987

INDUSTRIAL SUMMARY SHEET

	FLOW / M³	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	7767	1886	14649	2315	17980	72	561	$11910
YEAR TO YEAR DAILY AVERAGE	7597	1725	13103	2276	17291	71	538	$10722
MONTHLY HIGH	9353 (19)	3540 (3)	27842 (3)	3592 (28)	28763 (20)	197 (1)	1450 (1)	—
MONTHLY LOW	5003 (14)	100 (15)	650 (15)	190 (15)	1235 (15)	4 (15)	26 (15)	—
MONTHLY TOTAL	217471	—	410171	—	503434	—	15722	$333,477
% OF 4 INDUSTRIAL TOTAL	32%	—	95%	—	74%	—	100%	71%
YEAR TO DATE MONTHLY AVERAGE	224125	—	386529	—	510081	—	15870	$316293
YEAR TO DATE TOTAL	448250	—	773059	—	1020162	—	31741	$632587
ALLIED								
DAILY AVERAGE	1777	30	53	253	450	—	—	$553
YEAR TO DATE AVERAGE	2013	30	60	228	459	—	—	$612
MONTHLY HIGH	3058 (3)	228 (3)	697 (3)	400 (2)	871 (3)	—	—	—
MONTHLY LOW	435 (28)	4 (14)	4 (14)	105 (28)	46 (28)	—	—	—
MONTHLY TOTAL	49770	—	1474	—	12615	—	—	$15,480
% of 4 INDUSTRY TOTAL	7%	—	.5%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	54386	—	1773	—	13550	—	—	$18045
YEAR TO DATE TOTAL	118773	—	3546	—	27101	—	—	$36091
GEORGIA PACIFIC								
DAILY AVERAGE	12529	40	503	287	3600	—	—	$3351
YEAR TO DATE DAILY AVERAGE	12970	46	588	295	3804	—	—	$3184
MONTHLY HIGH	15904 (15)	164 (1)	2463 (1)	440 (1)	5168 (15)	—	—	—
MONTHLY LOW	10161 (6)	4 (2)	41 (13)	155 (2)	1975 (2)	—	—	—
MONTHLY TOTAL	350797	—	14097	—	100811	—	—	$93815
% OF 4 INDUDTRIAL TOTAL	51%	—	3%	—	14%	—	—	20%
YEAR TO DATE MONTLY AVERAGE	380842	—	17360	—	112230	—	—	$93925
YEAR TO DATE TOTAL	761685	—	34720	—	224459	—	—	$187850
JAMES RIVER								
DAILY AVERAGE	2274	76	174	1050	2388	—	—	$1004
YEAR TO DATE DAILY AVERAGE	2270	85	192	1091	2478	—	—	$969
MONTHLY HIGH	3590 (28)	164 (1)	336 (1)	2370 (19)	4092 (28)	—	—	—
MONTHLY LOW	1574 (19)	40 (7)	74 (7)	520 (15)	1238 (15)	—	—	—
MONTHLY TOTAL	63681	—	4863	—	68867	—	—	$28104
% OF 4 INDUSTRY TOTAL	10%	—	1.5%	—	10%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	66979	—	5678	—	73095	—	—	$28578
YEAR TO DATE TOTAL	133958	—	11355	—	46190	—	—	$57156
TOTALS	1081721	—	430165	—	683727	—	15722	$470876
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	24,347	631	15,379	1002	24,419	72	561	$16,817

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MARCH 1987

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L C BOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9023	1328	11950	2002	18015	71	635	$11525
YEAR TO YEAR DAILY AVERAGE	8089	1571	12706	2168	17540	71	571	$10999
MONTHLY HIGH	10710 (12)	2900 (9)	26448 (9)	3308 (25)	31495 (25)	122 (16)	1142 (16)	—
MONTHLY LOW	6643 (1)	200 (8)	1530 (8)	580 (29)	4721 (29)	20 (8)	153 (8)	—
MONTHLY TOTAL	279723	—	370449	—	558453	—	19690	$357281
% OF 4 INDUSTRIAL TOTAL	33%	—	92%	—	72%	—	100%	68%
YEAR TO DATE MONTHLY AVERAGE	242658	—	381169	—	526205	—	17144	$329956
YEAR TO DATE TOTAL	727973	—	1143508	—	1578615	—	51431	$989868
ALLIED								
DAILY AVERAGE	1921	49	94	223	425	—	—	$623
YEAR TO DATE AVERAGE	1981	36	72	226	448	—	—	$616
MONTHLY HIGH	8220 (19)	180 (30)	810 (30)	710 (13)	1620 (30)	—	—	—
MONTHLY LOW	836 (9)	2 (1)	2 (1)	67 (21)	81 (21)	—	—	—
MONTHLY TOTAL	59544	—	2900	—	13175	—	—	$19313
% of 4 INDUSTRY TOTAL	7%	—	1%	—	2%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	59439	—	2149	—	13425	—	—	$18468
YEAR TO DATE TOTAL	178317	—	6446	—	40276	—	—	$55404
GEORGIA PACIFIC								
DAILY AVERAGE	14187	46	657	282	3999	—	—	$3800
YEAR TO DATE DAILY AVERAGE	13350	46	612	290	3872	—	—	$3396
MONTHLY HIGH	19075 (8)	146 (17)	1847 (17)	350 (15)	5780 (8)	—	—	—
MONTHLY LOW	10854 (20)	10 (22)	151 (22)	160 (7)	2144 (7)	—	—	—
MONTHLY TOTAL	439805	—	20372	—	123978	—	—	$117786
% OF 4 INDUDTRIAL TOTAL	51%	—	5%	—	16%	—	—	22%
YEAR TO DATE MONTLY AVERAGE	40050	—	18364	—	116146	—	—	$101879
YEAR TO DATE TOTAL	1201490	—	55092	—	348437	—	—	$305636
JAMES RIVER								
DAILY AVERAGE	2436	76	186	970	2377	—	—	$1033
YEAR TO DATE DAILY AVERAGE	2327	82	190	1052	2443	—	—	$991
MONTHLY HIGH	3871 (14)	118 (31)	273 (12)	1290 (28)	3845 (5)	—	—	—
MONTHLY LOW	1607 (31)	44 (14)	99 (21)	620 (14)	1606 (18)	—	—	—
MONTHLY TOTAL	75507	—	5775	—	73694	—	—	$32025
% OF 4 INDUSTRY TOTAL	9%	—	2%	—	10%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	64822	—	5710	—	73295	—	—	$29727
YEAR TO DATE TOTAL	209465	—	17130	—	219884	—	—	$89181
TOTALS	854579	—	399496	—	769300	—	19690	$526405
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	27,567	467	12,887	901	24,816	71	635	$16,981

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN				C BOD MG/L	C BOD KG			
DAILY AVERAGE	8984	1291	11597	1970	17699	81	731	$ 116.30
YEAR TO ~~YEAR~~ DAILY AVERAGE	8387	1493	12525	2113	17727	74	618	11,156
MONTHLY HIGH	11300 (3)	2570 (1)	24726 (1)	3450 (30)	38,512 (30)	181 (8)	1583 (8)	—
MONTHLY LOW	7784 (12)	200 (25)	1946 (25)	865 (26)	7119 (26)	30 (19)	241 (19)	—
MONTHLY TOTAL	278500	—	359516	—	548676	—	22669	$348,403
% OF 4 INDUSTRIAL TOTAL	34%	—	91%	—	77%	—	100%	69%
YEAR TO DATE MONTHLY AVERAGE	251618	—	375756	—	531823	—	18525	$334,143
YEAR TO DATE TOTAL	1006473	—	1503024	—	2127291	—	74100	$1,338,771
ALLIED								
DAILY AVERAGE	2487	46	115	202	503	—	—	$ 772
YEAR TO DATE AVERAGE	2108	39	83	219	461	—	—	$ 655
MONTHLY HIGH	7157 (24)	970 (6)	720 (6)	615 (6)	1378 (24)	—	—	—
MONTHLY LOW	742 (6)	6 (25, 28)	20 (28)	130 (13)	205 (19)	—	—	—
MONTHLY TOTAL	74609	—	3463	—	15086	—	—	$23,172
% of 4 INDUSTRY TOTAL	9%	—	1%	—	2%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	63232	—	2477	—	13840	—	—	$ 19,644
YEAR TO DATE TOTAL	252926	—	9909	—	55362	—	—	$ 78,576
GEORGIA PACIFIC								
DAILY AVERAGE	13292	63	843	251	3341	—	—	$ 3,545
YEAR TO DATE DAILY AVERAGE	13446	50	677	280	3767	—	—	$ 3,463
MONTHLY HIGH	19305 (2)	98 (2, 26)	1892 (2)	310 (28)	5559 (2)	—	—	—
MONTHLY LOW	9169 (16)	10 (18)	216 (24)	180 (11)	2491 (10)	—	—	—
MONTHLY TOTAL	412,049	—	26131	—	103575	—	—	$109,884
% OF 4 INDUDTRIAL TOTAL	50%	—	7%	—	14%	—	—	22%
YEAR TO DATE MONTLY AVERAGE	403385	—	20306	—	113003	—	—	$103,880
YEAR TO DATE TOTAL	1613539	—	81223	—	452012	—	—	$415,520
JAMES RIVER								
DAILY AVERAGE	1825	74	137	951	1744	—	—	$ 773
YEAR TO DATE DAILY AVERAGE	2202	80	177	1031	2268	—	—	$ 936
MONTHLY HIGH	2992 (16)	1168 (24)	245 (24)	1230 (8)	3411 (16)	—	—	—
MONTHLY LOW	791 (18)	20 (11)	33 (18)	405 (11)	736 (18)	—	—	—
MONTHLY TOTAL	54761	—	4101	—	52323	—	—	$23,192
% OF 4 INDUSTRY TOTAL	7%	—	1%	—	7%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	66056	—	5308	—	68052	—	—	$ 28,093
YEAR TO DATE TOTAL	264226	—	21231	—	272207	—	—	$112,373
TOTALS	819919	—	393211	—	719660	—	22669	$505,151
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	27331	479	13,107	878	23,989	81	731	$16,838

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L C BOD MG/L	BOD KG C BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8889	1957	17391	2825	25108	68	6016	$14,368
YEAR TO YEAR DAILY AVERAGE	8490	1593	13524	2216	19243	72	6015	$11,816
MONTHLY HIGH	10728 (27)	4950 (28)	52222 (28)	4367 (19)	43019 (19)	112 (4)	1098 (4)	—
MONTHLY LOW	6087 (24)	300 (1)	2301 (9)	765 (2)	6018 (2)	24 (31)	196 (31)	—
MONTHLY TOTAL	275570	—	539123	—	778360	—	18787	$445,421
% OF 4 INDUSTRIAL TOTAL	33%	—	94%	—	78%	—	100%	72%
YEAR TO DATE MONTHLY AVERAGE	256409	—	408429	—	581130	—	18577	$356,838
YEAR TO DATE TOTAL	1282043	—	2042147	—	2905651	—	92887	$1,784,192
ALLIED								
DAILY AVERAGE	2452	81	198	2616	651	—	—	$ 822
YEAR TO DATE AVERAGE	2178	49	106	229	500	—	—	$ 689
MONTHLY HIGH	10522 (6)	292 (5)	2633 (5)	520 (19)	3047 (5)	—	—	—
MONTHLY LOW	0 (16 & 17)	2 (9)	0 (16 & 17)	100 (17)	0 (16 & 17)	—	—	—
MONTHLY TOTAL	76006	—	6136	—	20191	—	—	$25,482
% of 4 INDUSTRY TOTAL	9%	—	1%	—	2%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	65786	—	3209	—	1510	—	—	$20,811
YEAR TO DATE TOTAL	328932	—	16045	—	75553	—	—	$104,058
GEORGIA PACIFIC								
DAILY AVERAGE	13352	59	788	325	4338	—	—	$ 3758
YEAR TO DATE DAILY AVERAGE	13427	52	700	289	3884	—	—	$ 3523
MONTHLY HIGH	17108 (17)	312 (23)	5130 (23)	490 (9)	11016 (23)	—	—	—
MONTHLY LOW	8265 (24)	18 (4)	236 (9)	145 (26)	1902 (26)	—	—	—
MONTHLY TOTAL	413908	—	24439	—	134473	—	—	$116,487
% OF 4 INDUDTRIAL TOTAL	50%	—	4%	—	13%	—	—	19%
YEAR TO DATE MONTLY AVERAGE	405489	—	21132	—	117297	—	—	$10,640
YEAR TO DATE TOTAL	2027447	—	1056662	—	586485	—	—	$532,007
JAMES RIVER								
DAILY AVERAGE	2058	55	114	1081	2233	—	—	$ 913
YEAR TO DATE DAILY AVERAGE	2172	76	164	1041	2261	—	—	$ 932
MONTHLY HIGH	5592 (27)	114 (27)	637 (27)	2280 (23)	4994 (27)	—	—	—
MONTHLY LOW	1504 (4)	16 (9)	27 (1)	345 (2)	679 (2)	—	—	—
MONTHLY TOTAL	63800	—	3551	—	69211	—	—	$28,314
% OF 4 INDUSTRY TOTAL	8%	—	1%	—	7%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	65605	—	4956	—	68284	—	—	$28,137
YEAR TO DATE TOTAL	328026	—	24782	—	341418	—	—	$140,687
TOTALS	829284	—	573249	—	1002235	—	18787	$1615704
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	26751	691	18,492	1209	32,330	68	6016	$19,861

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L CBOD MG/L	BOD KG CBOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9059	1914	17350	2990	27112	76	692	$15218
YEAR TO YEAR DAILY AVERAGE	8585	1650	14158	2393	20547	73	628	$12,380
MONTHLY HIGH	109116 (11)	4480 (8)	45875 (8)	6000 (7)	46800 (7)	120 (9)	1133 (9)	—
MONTHLY LOW	6628 (28)	490 (4)	4313 (4)	1485 (28)	9842 (28)	32 (28)	212 (28)	—
MONTHLY TOTAL	271762	—	520512	—	813358	—	20758	$456,551
% OF 4 INDUSTRIAL TOTAL	30%	—	94%	—	77%	—	100%	70%
YEAR TO DATE MONTHLY AVERAGE	258967	—	427110	—	619835	—	18941	$373,457
YEAR TO DATE TOTAL	1553805	—	2562659	—	3719009	—	113645	$2,240,743
ALLIED								
DAILY AVERAGE	3971	56	223	267	1061	—	—	$1270
YEAR TO DATE AVERAGE	2475	51	126	240	593	—	—	$785
MONTHLY HIGH	11910 (29)	260 (1)	1262 (29)	435 (4)	2977 (29)	—	—	—
MONTHLY LOW	2308 (19)	8 (3)	24 (3)	105 (16)	306 (16)	—	—	—
MONTHLY TOTAL	119136	—	6691	—	31821	—	—	$38,113
% of 4 INDUSTRY TOTAL	13%	—	1%	—	3%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	74678	—	3789	—	17896	—	—	$23,695
YEAR TO DATE TOTAL	448068	—	22736	—	107374	—	—	$142,171
GEORGIA PACIFIC								
DAILY AVERAGE	14551	49	709	354	5140	—	—	$4136
YEAR TO DATE DAILY AVERAGE	13613	51	701	300	4092	—	—	$3625
MONTHLY HIGH	21943 (14)	158 (17)	2588 (17)	700 (14)	15360 (14)	—	—	—
MONTHLY LOW	10933 (26)	12 (6)	174 (6)	205 (29)	2985 (29)	—	—	—
MONTHLY TOTAL	436524	—	21269	—	154192	—	—	$124,070
% OF 4 INDUDTRIAL TOTAL	48%	—	4%	—	15%	—	—	19%
YEAR TO DATE MONTLY AVERAGE	410662	—	21155	—	123446	—	—	$109,346
YEAR TO DATE TOTAL	2463971	—	126931	—	740677	—	—	$656,077
JAMES RIVER								
DAILY AVERAGE	2440	50	122	810	1971	—	—	$924
YEAR TO DATE DAILY AVERAGE	2217	71	157	999	2213	—	—	$930
MONTHLY HIGH	6754 (6)	88 (25)	248 (21)	1132 (24)	3290 (21)	—	—	—
MONTHLY LOW	1600 (16)	22 (2)	35 (2)	360 (6)	993 (8)	—	—	—
MONTHLY TOTAL	73195	—	3659	—	59121	—	—	$27709
% OF 4 INDUSTRY TOTAL	9%	—	1%	—	5%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	66870	—	4740	—	66756	—	—	$28,046
YEAR TO DATE TOTAL	401221	—	28441	—	400539	—	—	$168,396
TOTALS	900617	—	552131	—	1058492	—	20758	$646,443
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	30020	612	18404	35283	35283	76	692	$21,548

JULY 19 87

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9152	1430	13094	2695	24694	69	636	$13319
YEAR TO YEAR DAILY AVERAGE	8668	1616	14003	2441	21153	73	629	$12517
MONTHLY HIGH	11409 (10)	3790 (7)	33992 (7)	3779 (13)	36683 (23)	103 (6)	1015 (6)	—
MONTHLY LOW	5970 (4)	170 (4)	1014 (4)	1521 (4)	9080 (4)	19 (19)	163 (19)	—
MONTHLY TOTAL	283722	—	406074	—	765513	—	19710	$412,899
% OF 4 INDUSTRIAL TOTAL	31%	—	92%	—	77%	—	100%	68%
YEAR TO DATE MONTHLY AVERAGE	262504	—	424105	—	640646	—	19051	$379092
YEAR TO DATE TOTAL	1837527	—	2968733	—	4484522	—	133355	$2,653,642
ALLIED								
DAILY AVERAGE	4053	57	230	249	1014	—	—	$1281
YEAR TO DATE AVERAGE	2700	52	141	242	655	—	—	$858
MONTHLY HIGH	68770 (6)	1172 (4)	868 (1)	430 (20)	20103 (6)	—	—	—
MONTHLY LOW	532 (4)	20 (10)	89 (31)	120 (8)	150 (4)	—	—	—
MONTHLY TOTAL	125657	—	7141	—	31441	—	—	$39,716
% of 4 INDUSTRY TOTAL	14%	—	2%	—	4%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	81961	—	42168	—	19831	—	—	$25984
YEAR TO DATE TOTAL	573725	—	29877	—	138815	—	—	$181,887
GEORGIA PACIFIC								
DAILY AVERAGE	14671	56	823	293	4299	—	—	$4010
YEAR TO DATE DAILY AVERAGE	13768	52	719	299	4122	—	—	$3681
MONTHLY HIGH	18975 (12)	196 (4)	3263 (23)	400 (5)	6485 (25)	—	—	—
MONTHLY LOW	7150 (4)	10 (2)	138 (2)	135 (4)	965 (4)	—	—	—
MONTHLY TOTAL	454808	—	25516	—	133256	—	—	$124,313
% OF 4 INDUDTRIAL TOTAL	49%	—	5%	—	13%	—	—	21%
YEAR TO DATE MONTLY AVERAGE	4169608	—	21778	—	124848	—	—	$111,484
YEAR TO DATE TOTAL	2918779	—	152447	—	873933	—	—	$780,390
JAMES RIVER								
DAILY AVERAGE	1952	68	132	1025	1985	—	—	$845
YEAR TO DATE DAILY AVERAGE	2178	70	153	1000	2179	—	—	$918
MONTHLY HIGH	3551 (2)	214 (5)	528 (13)	1830 (13)	6359 (13)	—	—	—
MONTHLY LOW	256 (5)	26 (8)	55 (5)	300 (5)	77 (5)	—	—	—
MONTHLY TOTAL	60504	—	4096	—	61533	—	—	$26,202
% OF 4 INDUSTRY TOTAL	6%	—	1%	—	6%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	65961	—	4648	—	66010	—	—	$27800
YEAR TO DATE TOTAL	461725	—	32537	—	462072	—	—	$194,598
TOTALS	924691	—	442827	—	991743	—	19710	$603,130
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	29828	478	14,284	1072	31,991	69	636	$19,456

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9797	1451	14235	2299	22548	57	559	$13,416
YEAR TO YEAR DAILY AVERAGE	8817	1592	14033	2421	21331	70	620	$12,632
MONTHLY HIGH	11917 (12)	3610 (2)	33645 (2)	4342 (13)	43599 (13)	117 (3)	1170 (3)	—
MONTHLY LOW	7898 (30)	400 (15)	4098 (15)	400 (30)	3159 (30)	2 (20)	20 (20)	—
MONTHLY TOTAL	303703	—	441295	—	698946	—	17327	$415,910
% OF 4 INDUSTRIAL TOTAL	30%	—	94%	—	75%	—	100%	67%
YEAR TO DATE MONTHLY AVERAGE	267654	—	426253	—	647940	—	18835	$383,694
YEAR TO DATE TOTAL	2141230	—	3410028	—	5183518	—	150682	$3,069,552
ALLIED								
DAILY AVERAGE	5064	36	182	240	1216	—	—	$1580
YEAR TO DATE AVERAGE	3007	49	146	241	726	—	—	$950
MONTHLY HIGH	6714 (4)	180 (2)	709 (2)	435 (23)	2269 (23)	—	—	—
MONTHLY LOW	3490 (19)	6 (21)	35 (27)	100 (27)	568 (13)	—	—	—
MONTHLY TOTAL	156979	—	5647	—	37686	—	—	$48,972
% of 4 INDUSTRY TOTAL	16%	—	1%	—	4%	—	—	8%
YEAR TO DATE MONTHLY AVERAGE	91338	—	4440	—	22002	—	—	$28,857
YEAR TO DATE TOTAL	730,704	—	35524	—	176,501	—	—	$230,859
GEORGIA PACIFIC								
DAILY AVERAGE	14745	43	639	240	3544	—	—	$3803
YEAR TO DATE DAILY AVERAGE	13892	51	709	291	4048	—	—	$3697
MONTHLY HIGH	18831 (12)	142 (26)	2334 (26)	422 (23)	6713 (23)	—	—	—
MONTHLY LOW	11107 (29)	16 (11)	233 (21)	100 (13)	1299 (28)	—	—	—
MONTHLY TOTAL	457094	—	19822	—	109859	—	—	$117,904
% OF 4 INDUDTRIAL TOTAL	45%	—	4%	—	12%	—	—	19%
YEAR TO DATE MONTLY AVERAGE	421984	—	21533	—	122974	—	—	$112,287
YEAR TO DATE TOTAL	3375873	—	172269	—	983792	—	—	$898,294
JAMES RIVER								
DAILY AVERAGE	2950	52	152	934	2741	—	—	$1190
YEAR TO DATE DAILY AVERAGE	2276	67	153	989	2251	—	—	$953
MONTHLY HIGH	4447 (26)	140 (3)	479 (3)	2130 (14)	6294 (14)	—	—	—
MONTHLY LOW	1910 (7)	18 (22)	47 (22)	300 (28)	820 (28)	—	—	—
MONTHLY TOTAL	91464	—	4712	—	84988	—	—	$36,906
% OF 4 INDUSTRY TOTAL	9%	—	1%	—	9%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	69148	—	4656	—	68384	—	—	$28,938
YEAR TO DATE TOTAL	553189	—	37249	—	547070	—	—	$231,504
TOTALS	1,009,240	—	471,476	—	931,529	—	17327	$619,692
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	32556	467	15,209	923	30,049	57	559	$19,990

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SEPTEMBER 19 87

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9891	1287	12745	2524	24991	166	1651	$13,539
YEAR TO YEAR DAILY AVERAGE	8930	1555	13891	2434	21733	70	623	$12,731
MONTHLY HIGH	11837 (10)	3110 (23)	32384 (17)	4933 (8)	53577 (8)	125 (26)	1210 (22)	—
MONTHLY LOW	7151 (20)	140 (11)	1619 (11)	1177 (2)	11025 (12)	39 (8)	343 (6)	—
MONTHLY TOTAL	296735	—	382364	—	749734	—	19,536	$406,166
% OF 4 INDUSTRIAL TOTAL	32%	—	91%	—	76%	—	100%	68%
YEAR TO DATE MONTHLY AVERAGE	270885	—	421377	—	659250	—	1891.3	$386,191
YEAR TO DATE TOTAL	2437965	—	3792392	—	5933252	—	170218	$3,475,718
ALLIED								
DAILY AVERAGE	3112	45	140	271	841	—	—	$ 997
YEAR TO DATE AVERAGE	3018	48	146	245	739	—	—	$ 955
MONTHLY HIGH	9348 (21)	245 (24)	886 (20)	390 (16)	2318 (21)	—	—	—
MONTHLY LOW	284 (4)	4 (18)	7 (4)	100 (8)	37 (4)	—	—	—
MONTHLY TOTAL	93380	—	4202	—	25239	—	—	$29,910
% of 4 INDUSTRY TOTAL	10%	—	1%	—	3%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	91565	—	4414	—	22416	—	—	$28,974
YEAR TO DATE TOTAL	824084	—	39726	—	201740	—	—	$260769
GEORGIA PACIFIC								
DAILY AVERAGE	15036	37	551	268	4028	—	—	$ 3940
YEAR TO DATE DAILY AVERAGE	14018	49	691	289	4046	—	—	$ 3723
MONTHLY HIGH	21074 (11)	158 (15)	2457 (15)	400 (3)	5218 (9)	—	—	—
MONTHLY LOW	11938 (18)	4 (11)	84 (11)	115 (12)	1986 (12)	—	—	—
MONTHLY TOTAL	451084	—	16523	—	120854	—	—	$118,212
% OF 4 INDUDTRIAL TOTAL	49%	—	4%	—	12%	—	—	20%
YEAR TO DATE MONTLY AVERAGE	425217	—	20977	—	122738	—	—	$112,945
YEAR TO DATE TOTAL	3826957	—	188792	—	1104646	—	—	$1,016,506
JAMES RIVER								
DAILY AVERAGE	2933	190	559	1003	2943	—	—	$ 1362
YEAR TO DATE DAILY AVERAGE	2349	84	198	991	2327	—	—	$ 998
MONTHLY HIGH	6220 (20)	1860 (20)	11569 (20)	1560 (30)	5224 (30)	—	—	—
MONTHLY LOW	1891 (25)	14 (25)	26 (25)	118 (4)	375 (4)	—	—	—
MONTHLY TOTAL	87989	—	16767	—	88287	—	—	$40,853
% OF 4 INDUSTRY TOTAL	9%	—	4%	—	9%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	71242	—	6002	—	70595	—	—	$30,262
YEAR TO DATE TOTAL	641178	—	54016	—	635357	—	—	$272,357
TOTALS	929,188	—	419,856	—	984,114	—	19,536	$595,141
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	30,973	452	13,995	1059	32,804	166	1651	$19,838

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OCTOBER 19 87

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9583	1361	13039	2031	19460	68	652	$12,277
YEAR TO YEAR DAILY AVERAGE	8497	1534	13805	2390	21501	70	626	$12,685
MONTHLY HIGH	11432 (12)	2580 (21)	24835 (1)	3250 (20)	35725 (12)	124 (4)	1160 (7)	—
MONTHLY LOW	7406 (4)	280 (30)	2704 (6)	1283 (29)	7984 (24)	28 (12)	320 (12)	—
MONTHLY TOTAL	297065	—	404204	—	603247	—	20204	$380,601
% OF 4 INDUSTRIAL TOTAL	33%	—	91%	—	74%	—	100%	68%
YEAR TO DATE MONTHLY AVERAGE	273503	—	419660	—	653165	—	19042	$385,632
YEAR TO DATE TOTAL	2735030	—	4196596	—	6536499	—	190422	$3,856,319
ALLIED								
DAILY AVERAGE	1691	32	53	317	532	—	—	$571
YEAR TO DATE AVERAGE	2883	47	136	249	718	—	—	$916
MONTHLY HIGH	3411 (30)	126 (15)	237 (16)	440 (22)	1296 (30)	—	—	—
MONTHLY LOW	611 (11)	4 (21)	9 (14)	202 (1)	133 (11)	—	—	—
MONTHLY TOTAL	52430	—	1647	—	16496	—	—	$17,711
% of 4 INDUSTRY TOTAL	6%	—	1%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	87651	—	4137	—	21824	—	—	$27,848
YEAR TO DATE TOTAL	876514	—	41373	—	218236	—	—	$278,480
GEORGIA PACIFIC								
DAILY AVERAGE	15190	61	927	241	3659	—	—	$4,004
YEAR TO DATE DAILY AVERAGE	14138	51	715	283	4007	—	—	$3,752
MONTHLY HIGH	21900 (12)	420 (22)	6403 (22)	352 (26)	5518 (12)	—	—	—
MONTHLY LOW	12007 (9)	20 (31)	278 (17)	100 (13)	1549 (13)	—	—	—
MONTHLY TOTAL	470913	—	28748	—	113430	—	—	$124,142
% OF 4 INDUDTRIAL TOTAL	53%	—	6%	—	14%	—	—	22%
YEAR TO DATE MONTLY AVERAGE	429787	—	21754	—	121808	—	—	$114,065
YEAR TO DATE TOTAL	4297870	—	217540	—	1218076	—	—	$1,140,648
JAMES RIVER								
DAILY AVERAGE	2457	151	370	1080	2648	—	—	$1,153
YEAR TO DATE DAILY AVERAGE	2360	91	215	1001	2360	—	—	$1,013
MONTHLY HIGH	5815 (16)	856 (23)	3227 (23)	1830 (12)	5249 (14)	—	—	—
MONTHLY LOW	934 (24)	34 (22)	84 (27)	315 (13)	1066 (24)	—	—	—
MONTHLY TOTAL	76171	—	11470	—	82093	—	—	$35,751
% OF 4 INDUSTRY TOTAL	8%	—	2%	—	10%	—	—	7%
YEAR TO DATE MONTHLY AVERAGE	71735	—	6548	—	71745	—	—	$30,811
YEAR TO DATE TOTAL	717349	—	65486	—	717450	—	—	$308,108
TOTALS	896,579	—	446,069	—	815,266	—	20,204	$558,205
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	28,922	498	14,389	910	26,299	68	652	$18,007

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NOVEMBER 19 87

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9604	900	8643	2134	20483	53	511	$ 11,073
YEAR TO YEAR DAILY AVERAGE	9051	1474	13341	2365	21410	68	616	$ 12,540
MONTHLY HIGH	12421 (11)	2520 (18)	26195 (18)	6100 (27)	46024 (27)	103 (28)	887 (30)	—
MONTHLY LOW	7202 (26)	220 (10)	2232 (26)	690 (26)	4969 (26)	28 (5)	274 (22)	—
MONTHLY TOTAL	288130	—	259295	—	614499	—	15334	$332,200
% OF 4 INDUSTRIAL TOTAL	32%	—	82%	—	70%	—	100%	63%
YEAR TO DATE MONTHLY AVERAGE	274833	—	405081	—	650090	—	18705	$380,774
YEAR TO DATE TOTAL	3023160	—	4455891	—	7150998	—	205756	$4,188,519
ALLIED								
DAILY AVERAGE	1387	42	59	310	434	—	—	$ 480
YEAR TO DATE AVERAGE	2749	47	129	252	692	—	—	$ 877
MONTHLY HIGH	3516 (25)	96 (21)	295 (25)	440 (28)	1072 (25)	—	—	—
MONTHLY LOW	241 (26)	8 (8)	12 (15)	140 (21)	78 (15)	—	—	—
MONTHLY TOTAL	41623	—	1773	—	13019	—	—	$14,407
% of 4 INDUSTRY TOTAL	5%	—	1%	—	2%	—	—	3%
YEAR TO DATE MONTHLY AVERAGE	83467	—	3922	—	21023	—	—	$ 26,626
YEAR TO DATE TOTAL	918137	—	43146	—	231255	—	—	$292,887
GEORGIA PACIFIC								
DAILY AVERAGE	16765	95	1600	316	5293	—	—	$ 4,874
YEAR TO DATE DAILY AVERAGE	14373	55	795	287	4122	—	—	$ 3,853
MONTHLY HIGH	20700 (29)	2168 (18)	4580 (18)	415 (18)	7093 (18)	—	—	—
MONTHLY LOW	12721 (6)	14 (8)	250 (8)	202 (3)	2914 (3)	—	—	—
MONTHLY TOTAL	502967	—	48001	—	158801	—	—	$146,225
% OF 4 INDUDTRIAL TOTAL	56%	—	15%	—	18%	—	—	28%
YEAR TO DATE MONTLY AVERAGE	436440	—	24140	—	125171	—	—	$116,988
YEAR TO DATE TOTAL	4800837	—	265541	—	1376877	—	—	$1,286,873
JAMES RIVER								
DAILY AVERAGE	2363	118	279	1229	2909	—	—	$ 1,167
YEAR TO DATE DAILY AVERAGE	2360	94	221	1021	2409	—	—	$ 1,027
MONTHLY HIGH	5291 (12)	580 (11)	2411 (11)	1800 (24)	4761 (12)	—	—	—
MONTHLY LOW	1323 (6)	34 (8)	79 (6)	742 (13)	1697 (5)	—	—	—
MONTHLY TOTAL	70907	—	8384	—	87291	—	—	$35,003
% OF 4 INDUSTRY TOTAL	7%	—	2%	—	10%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	71659	—	6715	—	73158	—	—	$31,192
YEAR TO DATE TOTAL	788256	—	73870	—	804741	—	—	$343,111
TOTALS	903,627	—	317,453	—	873,610	—	15,334	$527,835
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	30,121	351	10,582	966	29,120	53	511	$17,594

DECEMBER 1987

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INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE DATE	10476	975	10227	1758	18431	53	551	$ 11,459
YEAR TO ~~YEAR~~ DAILY AVERAGE	9172	1425	13076	2306	21157	66	610	$ 12,449
MONTHLY HIGH	13140 (14)	1880 (10)	22394 (10)	3217 (26)	39735 (14)	103 (30)	1191 (8)	—
MONTHLY LOW	6339 (24)	160 (24)	1014 (24)	660 (30)	5564 (25)	14 (13)	132 (13)	—
MONTHLY TOTAL	324759	—	317029	—	571371	—	17099	$355,255
% OF 4 INDUSTRIAL TOTAL	34%	—	84%	—	70%	—		64%
YEAR TO DATE MONTHLY AVERAGE	278993	—	397743	—	643530	—	18571	$ 378,648
YEAR TO DATE TOTAL	3347919	—	4772920	—	7722369	—	222855	$4,543,774
[redacted] PACIPAY								
DAILY AVERAGE DAILY	16094	101	16216	299	4815	—	—	$ 4,650
YEAR TO DATE AVERAGE	14579	60	8666	288	4181	—	—	$ 3,921
MONTHLY HIGH	19392 (23)	224 (27)	4073 (27)	408 (9)	6997 (20)	—	—	—
MONTHLY LOW	6791 (24)	26 (15)	483 (15)	145 (24)	984 (24)	—	—	—
MONTHLY TOTAL	498925	—	50403	—	149278	—	—	$144,173
% of 4 INDUSTRY TOTAL	52%	—	13%	—	18%	—	—	26%
YEAR TO DATE MONTHLY AVERAGE	441646	—	24329	—	127179	—	—	$ 119,254
YEAR TO DATE TOTAL	5299762	—	315944	—	1526155	—	—	$1,431,046
[redacted]								
DAILY AVERAGE	2008	46	91	292	583	—	—	$ 666
YEAR TO DATE DAILY AVERAGE	2686	47	126	254	683	—	—	$ 859
MONTHLY HIGH	3821 (20)	100 (27)	257 (30)	760 (14)	1246 (1)	—	—	—
MONTHLY LOW	0 (24)	0 (24)	0 (24)	0 (24)	0 (24)	—	—	—
MONTHLY TOTAL	62260	—	2838	—	18093	—	—	$20,649
% OF 4 INDUDTRIAL TOTAL	6%	—	1%	—	2%	—	—	4%
YEAR TO DATE MONTLY AVERAGE	81699	—	3832	—	20779	—	—	$ 26,128
YEAR TO DATE TOTAL	980397	—	45984	—	249348	—	—	$313,536
JAMES RIVER								
DAILY AVERAGE	2405	100	238	1067	2547	—	—	$ 1,082
YEAR TO DATE DAILY AVERAGE	2364	94	222	1024	2421	—	—	$ 1,032
MONTHLY HIGH	5026 (26)	188 (24)	663 (26)	1770 (30)	4652 (9)	—	—	—
MONTHLY LOW	1685 (5)	28 (4)	48 (4)	365 (18)	763 (18)	—	—	—
MONTHLY TOTAL	74570	—	7387	—	78978	—	—	$33,546
% OF 4 INDUSTRY TOTAL	8%	—	2%	—	10%	—	—	6%
YEAR TO DATE MONTHLY AVERAGE	71902	—	6771	—	73643	—	—	$ 31,388
YEAR TO DATE TOTAL	862826	—	81257	—	883719	—	—	$376,657
TOTALS	960514	—	377657	—	817720	—	17099	$553,623
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	30984	393	12182	852	26378	53	551	$17,859

INDUSTRIAL Summary SHEET

January 19 86

	Flow / m³	suspended solids MG/L	suspended solids KGS	BOD MG/L	BOD KG	NH₃ N MG/L	NH₃ N KG	TOTAL USER FEE $
UPJOHN								
Daily average	7,174	985	7066	2179	15,635	–	–	$7,619
Year to Date Daily average	7,174	985	7066	2179	15,635	–	–	$7,619
MONTHLY High (__/__/__)	10,617 (27)	6990 (4)	34901 (28)	4192 (9)	34,156 (9)	–	–	–
MONTHLY Low (__/__/__)	386 (5)	320 (11)	358 (5)	695 (1)	677 (5)	–	–	–
MONTHLY TOTAL	222392	–	219056	–	484676	–	–	$236205
% of 4 INDUSTRY TOTAL	28%	–	84%	–	72%	–	–	64%
Year to Date MONTHLY average	222392	–	219056	–	484676	–	–	$236205
Year to Date TOTAL	222392	–	219056	–	484676	–	–	$236205
Allied								
Daily average	2,940	80	236	261	766	–	–	$855
Year to Date Daily average	2,940	80	236	261	766	–	–	$855
MONTHLY High (__/__/__)	6915 (6)	188 (8)	1113 (8)	550 (10)	2914 (10)	–	–	–
MONTHLY Low (__/__/__)	407 (27)	12 (16)	20 (26)	85 (9)	121 (27)	–	–	–
MONTHLY TOTAL	91142	–	7324	–	23750	–	–	$26,497
% of 4 INDUSTRY TOTAL	12%	–	3%	–	4%	–	–	7%
Year to Date MONTHLY average	91142	–	7324	–	23750	–	–	$26,497
Year to Date TOTAL	91142	–	7324	–	23750	–	–	$26,497
Georgia Pacific								
Daily Average	13,075	68	891	249	3,254	–	–	$2,753
Year to Date Daily average	13,075	68	891	249	3,254	–	–	$2,753
MONTHLY High (__/__/__)	16,436 (31)	120 (20)	1433 (5)	490 (20)	7073 (21)	–	–	–
MONTHLY Low (__/__/__)	10043 (18)	22 (1)	293 (1)	120 (24)	1537 (24)	–	–	–
MONTHLY TOTAL	405329	–	27610	–	100878	–	–	$85345
% of 4 INDUSTRY TOTAL	52%	–	11%	–	15%	–	–	23%
Year to Date MONTHLY average	405329	–	27610	–	100878	–	–	$85345
Year to Date TOTAL	405329	–	27610	–	100878	–	–	$85345
James River								
Daily Average	2152	84	179	887	1908	–	–	$672
Year to Date Daily average	2152	84	179	887	1908	–	–	$672
MONTHLY High (__/__/__)	3002 (5)	144 (26)	335 (16)	2520 (13)	4740 (13)	–	–	–
MONTHLY Low (__/__/__)	1740 (31)	28 (20)	65 (20)	645 (31)	1122 (31)	–	–	–
MONTHLY TOTAL	66707	–	5541	–	59161	–	–	$20823
% of 4 INDUSTRY TOTAL	12%	–	2%	–	9%	–	–	6%
Year to Date MONTHLY average	66707	–	5541	–	59161	–	–	$20823
Year to Date TOTAL	66707	–	5541	–	59161	–	–	$20823
TOTALS	785,570		259,531		668,465		–	$368 870
Weighted average Based Daily Average Flow	25,341	334	8372 *	876	21,563 *	–	–	$11,899 *

* Daily average Based on 31 days

INDUSTRIAL SUMMARY

Feb 1986

UPJOHN	Flow /m³	Suspended solids MG/L	Suspended solids KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3-N KG	TOTAL USER FEE $
Daily average	7,932	758	6014	2467	19,570	–	–	$8,415
year To Date Daily average	7534	871	6567	2323	17,502	–	–	$7,997
MONTHLY High (__/__/__)	9692 (6)	1520 (13)	13145 (13)	5083 (19)	46,328 (19)	–	–	–
MONTHLY Low (__/__/__)	5120 (15)	230 (15)	1178 (15)	400 (15)	2048 (15)	–	–	–
MONTHLY TOTAL	222100	–	168404	–	547967	–	–	$235634
% of 4 INDUSTRY TOTAL	31%	–	81%	–	75%	–	–	66%
year To Date MONTHLY average	222,246	–	193730	–	516321	–	–	235,919
year To Date TOTAL	444,492	–	387,460	–	1,032,643	–	–	$471,839

Allied								
Daily average	2301	54	125	256	589	–	–	$557
year To Date Daily average	2637	67	183	258	688	–	–	$764
MONTHLY High (__/__/__)	5395 (5)	108 (6)	388 (5)	340 (12)	1689 (5)	–	–	–
MONTHLY Low (__/__/__)	251 (22)	24 (24)	10 (22)	135 (7)	45 (22	–	–	–
MONTHLY TOTAL	64437	–	3504	–	16484	–	–	$18,585
% of 4 INDUSTRY TOTAL	9%	–	2%	–	2%	–	–	5%
year To Date MONTHLY average	77,789	–	5,414	–	20,117	–	–	$22,541
year To Date TOTAL	155,579	–	10,828	–	40,234	–	–	$45,082

Georgia Pacific								
Daily Average	12,977	86	1,113	278	3614	–	–	$2,856
year To Date Daily average	13,029	77	996	263	3425	–	–	$2,802
MONTHLY High (__/__/__)	15,262 (11)	356 (13)	4469 (13)	635 (2)	8107 (2)	–	–	–
MONTHLY Low (__/__/__)	9004 (1)	24 (17)	432 (1)	150 (13)	1883 (13)	–	–	–
MONTHLY TOTAL	363371	–	31,152	–	101193	–	–	$79956
% of 4 INDUSTRY TOTAL	50	–	15%	–	14%	–	–	22%
year To Date MONTHLY average	384,350	–	29,381	–	101035	–	–	82,650
year To Date TOTAL	768,700	–	58,762	–	202071	–	–	$165,301

James River								
Daily Average	2,563	69	178	839	2150	–	–	764
year To Date Daily average	2,347	76	178	863	2023	–	–	716
MONTHLY High (__/__/__)	3157 (23)	100 (2)	292 (2)	1110 (3)	3078 (24)	–	–	–
MONTHLY Low (__/__/__)	1950 (14)	44 (12)	78 (19)	600 (19)	1471 (19)	–	–	–
MONTHLY TOTAL	71760	–	4979	–	60192	–	–	$21405
% of 4 INDUSTRY TOTAL	10%	–	2%	–	9%	–	–	7%
year To Date MONTHLY average	69233	–	5260	–	59676	–	–	21,114
year To Date TOTAL	138,467	–	10,520	–	119353	–	–	$42,228

TOTALS	721,668		208,039		725,836		–	$355,580
WEIGHTED average Based Daily Average Flow		290	7430 *	1,011	25,923 *	–	–	$12,699 *

* Daily average based on 28 days

INDUSTRIAL Summary

March 19 86

	Flow /m³	suspended solids MG/L	suspended solids KGS	* supplier only CBOD MG/L	BOD KG	NH_3 N MG/L	NH_3 N KG	TOTAL USER FEE $
UP JOHN								
Daily average	7,775	918	7,135	1704	13,246	70	542	$ 7,763
year to Date Daily average	7,617	896	6763	2117	16,036	70	542	$ 7,917
MONTHLY HIGH (__/__/__)	9763 (10)	5070 (30)	30,511 (30)	3917 (3)	35065 (3)	158 (19)	1389 (19)	–
MONTHLY LOW (__/__/__)	4861 (1)	132 (15)	827 (15)	460 (8)	2952 (8)	15 (8)	96 (8)	–
MONTHLY TOTAL	241017	–	221,188	–	410628	–	16808	$ 240,670
% OF 4 INDUSTRY TOTAL	29%	–	86%	–	66%	–	–	61%
year to Date MONTHLY average	228,503	–	202,883	–	481,090	–	16808	$237,503
year to Date TOTAL	685,509	–	608648	–	1,443,271	–	16808	$712,509
Allied								
Daily average	2069	56	116	246	509	–	–	$ 650
year to Date Daily average	2,441	59	160	254	622	–	–	$ 949
MONTHLY HIGH (__/__/__)	9078 (24)	160 (12)	581 (24)	420 (8)	2569 (24)	–	–	–
MONTHLY LOW (__/__/__)	525 (8)	8 (27)	15 (27)	120 (14)	152 (19)	–	–	–
MONTHLY TOTAL	64145	–	3587	–	15795	–	–	$ 20,145
% of 4 INDUSTRY TOTAL	8%	–	1%	–	2%	–	–	5%
year to Date MONTHLY average	73,241	–	4,805	–	18,676	–	–	$ 28,457
year to Date TOTAL	219,724	–	14,415	–	56,029	–	–	85,372
Georgia Pacific								
Daily Average	14,031	61	859	262	3,677	–	–	$ 3,134
year to Date Daily average	13,374	72	948	263	3,512	–	–	$ 2,917
MONTHLY HIGH (__/__/__)	19585 (17)	136 (4)	2104 (18)	393 (9)	6913 (17)	–	–	–
MONTHLY LOW (__/__/__)	11010 (8)	4 (8)	44 (8)	135 (19)	1991 (19)	–	–	–
MONTHLY TOTAL	434966	–	26633	–	113988	–	–	$97156
% of 4 INDUSTRY TOTAL	51%	–	10%	–	18%	–	–	25%
year to Date MONTHLY average	40,122	–	28,465	–	105,353	–	–	$ 87,486
year to Date TOTAL	1,203,666	–	85,395	–	316,059	–	–	$262,457
James River								
Daily average	3,350	53	179	770	2581	–	–	$ 1,099
year to Date Daily average	2,692	69	179	832	2,215	–	–	$ 848
MONTHLY HIGH (__/__/__)	4189 (18)	104 (3)	354 (3)	1028 (18)	4306 (18)	–	–	–
MONTHLY LOW (__/__/__)	2680 (4)	8 (28)	26 (28)	480 (20)	1735 (20)	–	–	–
MONTHLY TOTAL	103,846	–	5555	–	80004	–	–	$34074
% of 4 INDUSTRY TOTAL	12%	–	2%	–	13%	–	–	9%
year to Date MONTHLY average	80,771	–	5,358	–	66,452	–	–	$ 25,434
year to Date TOTAL	242,313	–	16,075	–	199,357	–	–	$76,304
TOTALS	843,974		256,963		620,415		16806	$392,045
WEIGHTED average Based Daily Average Flow		307	8,289 *	740	20,013 *	70	542 *	$12,697 *

average based on 21 days

April 1986

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L * upjohn is CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8305	1929	16,017	2525	20,966	82	679	$11,987
YEAR TO YEAR DAILY AVERAGE	7789	1147	9,076	2219	17,269	76	609	$8934
MONTHLY HIGH	10210 (23)	6710 (27)	47117 (27)	4558 (23)	42845 (23)	134 (12)	1084 (16)	–
MONTHLY LOW	5849 (5)	340 (5)	1989 (5)	650 (6)	4139 (6)	29 (7)	259 (7)	–
MONTHLY TOTAL	249145	–	480532	–	628993	–	20,359	$359,598
% OF 4 INDUSTRIAL TOTAL	31%	–	93%	–	77%	–	–	72%
YEAR TO DATE MONTHLY AVERAGE	233663	–	272 295	–	518,066	–	18,583	$268,027
YEAR TO DATE TOTAL	934,654	–	1,089,180	–	2,072,264	–	37,167	$1,072,107
ALLIED								
DAILY AVERAGE	2,073	132	274	301	624	–	–	$716
YEAR TO DATE AVERAGE	2349	80	188	266	623	–	–	$890
MONTHLY HIGH	12099 (2)	1220 (22)	2594 (22)	530 (14)	2540 (2)	–	–	–
MONTHLY LOW	164 (24)	16 (19)	8 (19)	130 (17)	34 (24)	–	–	–
MONTHLY TOTAL	62181	–	8209	–	18714	–	–	$21,480
% of 4 INDUSTRY TOTAL	8%	–	2%	–	2%	–	–	4%
YEAR TO DATE MONTHLY AVERAGE	70,476	–	5,656	–	18,686	–	–	$26,713
YEAR TO DATE TOTAL	281,905	–	22,624	–	74,743	–	–	$106,852
GEORGIA PACIFIC								
DAILY AVERAGE	13,156	51	669	233	3,063	–	–	$2,829
YEAR TO DATE DAILY AVERAGE	13,320	93	879	255	3,400	–	–	$2,894
MONTHLY HIGH	16,203 (29)	132 (29)	2139 (29)	350 (12)	4861 (29)	–	–	–
MONTHLY LOW	10,658 (12)	8 (18)	112 (18)	140 (17)	1957 (17)	–		–
MONTHLY TOTAL	394,682	–	20,085	–	91905	–		$84,862
% OF 4 INDUDTRIAL TOTAL	49%	–	4%	–	11%	–	–	17%
YEAR TO DATE MONTLY AVERAGE	399,587	–	26,370	–	101,991			$86,830
YEAR TO DATE TOTAL	1,598,348	–	105,480	–	407,964	–	–	$347,319
JAMES RIVER								
DAILY AVERAGE	3,126	54	168	777	2,429	–	–	$1,032
YEAR TO DATE DAILY AVERAGE	2801	65	176	818	2,268	–	–	$894
MONTHLY HIGH	4012 (1)	116 (21)	370 (21)	1200 (12)	2836 (12)	–	–	–
MONTHLY LOW	2721 (16)	16 (18)	50 (18)	570 (2)	940 (25)	–	–	–
MONTHLY TOTAL	93,782	–	5054	–	72,864	–	–	$30,967
% OF 4 INDUSTRY TOTAL	12%	–	1%	–	9%	–	–	6%
YEAR TO DATE MONTHLY AVERAGE	84,024	–	5,282	–	68,055	–	–	$26,817
YEAR TO DATE TOTAL	336,095	–	21,129	–	272,221	–	–	$107,269
TOTALS	799,790	—	513,880	—	812,476	—	20 359	$496,907
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	—	640	17,129*	1,014	27,082*	82	679	$16,563*

* based on 30 days

May 19 86

INDUSTRIAL SUMMARY SHEET

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8729	1332	11,631	2,216	19,347	81	704	$11,045
YEAR TO YEAR DAILY AVERAGE	7982	1184	9,611	2,218	17,695	78	1,411	$9,367
MONTHLY HIGH	10,435 (27)	2880 (12)	28,915 (12)	4025 (28)	37,201 (15)	187 (20)	1809 (20)	—
MONTHLY LOW	5530 (24)	142 (17)	1045 (17)	540 (18)	2324 (18)	19 (26)	119 (26)	—
MONTHLY TOTAL	270,593	—	360,569	—	599,762	—	21,840	$342,384
% OF 4 INDUSTRIAL TOTAL	33%	—	92%	—	74%	—		71%
YEAR TO DATE MONTHLY AVERAGE	241,049	—	289,950	—	534,405	—	19,669	$282,898
YEAR TO DATE TOTAL	1,205,247	—	1,449,749	—	2,672,026		59,007	$1,414,491
ALLIED								
DAILY AVERAGE	1,876	47	88	303	568	—	—	$611
YEAR TO DATE AVERAGE	2,252	74	169	273	612	—	—	$833
MONTHLY HIGH	3454 (19)	188 (29)	423 (1)	430 (14)	1336 (9)	—	—	—
MONTHLY LOW	331 (28)	12 (23, 31)	20 (25)	160 (28)	53 (28)	—	—	—
MONTHLY TOTAL	58,164	—	2732		17,608	—	—	$18,950
% of 4 INDUSTRY TOTAL	7%	—	1%		2%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	68,014	—	5071		18,470	—	—	$25,160
YEAR TO DATE TOTAL	340,069	—	25,357		92,351	—	—	$125,802
GEORGIA PACIFIC								
DAILY AVERAGE	13,062	52	685	304	3968	—	—	$2994
YEAR TO DATE DAILY AVERAGE	13,267	64	839	265	3516	—	—	$2915
MONTHLY HIGH	16,769 (15)	108 (29)	1341 (15)	440 (7)	6350 (4)	—	—	—
MONTHLY LOW	11,456 (10)	24 (26)	282 (30)	173 (17)	2264 (17)	—	—	—
MONTHLY TOTAL	404,914	—	21,245	—	123,015	—	—	$92,829
% OF 4 INDUDTRIAL TOTAL	50%	—	5%	—	15%	—	—	19%
YEAR TO DATE MONTLY AVERAGE	400,652	—	25,345	—	106,196	—	—	$88,030
YEAR TO DATE TOTAL	2,003,262	—	126,725	—	530,979	—	—	$440,148
JAMES RIVER								
DAILY AVERAGE	2526	76	193	837	2,115	—	—	$885
YEAR TO DATE DAILY AVERAGE	2,744	67	179	822	2,237	—	—	$892
MONTHLY HIGH	3674 (25)	333 (25)	1223 (25)	1073 (24)	3434 (22)	—	—	—
MONTHLY LOW	1047 (26)	40 (17)	66 (26)	480 (28)	862 (26)	—	—	—
MONTHLY TOTAL	78293	—	5474	—	65,565	—	—	$27,433
% OF 4 INDUSTRY TOTAL	10%	—	2%	—	9%	—		6%
YEAR TO DATE MONTHLY AVERAGE	82,878	—	5421	—	67,557	—		$26,940
YEAR TO DATE TOTAL	414,388	—	27,103	—	337,786	—		$134,702
TOTALS	811,964	—	390,511	—	805,950	—	21,840	$481,596
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	—	477	12,597*	988	25,998*	81	704	$15,535*

* annual based on 31 days

INDUSTRIAL SUMMARY SHEET DATE June 19 86

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L * Upjohn is CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	9486	1429	13,554	1951	18,504	72	681	$11,635
YEAR TO DATE DAILY AVERAGE	9929	1415	14,046	2419	24,018	76	657	$11,602
MONTHLY HIGH	13,110 (22)	2740 (9)	28,893 (9)	4950 (26)	50,935 (26)	174 (17)	1822 (17)	—
MONTHLY LOW	6731 (8)	300 (20)	3744 (20)	390 (23)	5668 (29)	13 (30)	136 (30)	—
MONTHLY TOTAL	294,075	—	420,176	—	573,626	—	21110	$349048
% OF 4 INDUSTRIAL TOTAL	34%	—	93%	—		—	—	69%
YEAR TO DATE MONTHLY AVERAGE	249,887	—	353,483	—	604,456	—	20,029	$293,923
YEAR TO DATE TOTAL	1,499,322	—	2,120,897	—	3,626,735	—	80,117	$1,763539
ALLIED								
DAILY AVERAGE	3409	71	241	289	983	—	—	$1078
YEAR TO DATE DAILY AVERAGE	2929	74	214	282	821	—	—	$988
MONTHLY HIGH	7834 (19)	288 (27)	1139 (27)	550 (8)	2056 (26)	—	—	—
MONTHLY LOW	835 (3)	6 (13)	20 (13)	120 (17)	229 (3)	—	—	—
MONTHLY TOTAL	102258	—	7227	—	29486	—	—	$32,347
% of 4 INDUSTRY TOTAL	12%	—	1%	—		—	—	6%
YEAR TO DATE MONTHLY AVERAGE	73,721	—	5431	—	20,800	—	—	$25,040
YEAR TO DATE TOTAL	442,327	—	32,584	—	124,797	—	—	$161,009
GEORGIA PACIFIC								
DAILY AVERAGE	13,137	54	705	290	3,809	—	—	$2990
YEAR TO DATE DAILY AVERAGE	15,772	61	973	276	4,419	—	—	$3502
MONTHLY HIGH	16400 (22)	254 (2)	3029 (2)	405 (1)	6046 (1)	—	—	—
MONTHLY LOW	10325 (13)	8 (14)	102 (14)	175 (13)	1807 (13)	—	—	—
MONTHLY TOTAL	394,114	—	21149	—	114275	—	—	$92,135
% OF 4 INDUDTRIAL TOTAL	45%	—	5%	—		—	—	18%
YEAR TO DATE MONTLY AVERAGE	406270	—	24,646	—	111,940	—	—	$108,382
YEAR TO DATE TOTAL	2,397,376	—	147,874	—	671,639	—	—	$532,28[illegible]
JAMES RIVER								
DAILY AVERAGE	2599	69	180	1008	2617	—	—	$992
YEAR TO DATE DAILY AVERAGE	2720	66	214	845	2739	—	—	$1550
MONTHLY HIGH	3515 (19)	212 (22)	681 (22)	2370 (2)	4429 (2)	—	—	—
MONTHLY LOW	1850 (14)	16 (10)	43 (10)	708 (1)	1553 (1)	—	—	—
MONTHLY TOTAL	77958	—	5408	—	78498	—	—	$29757
% OF 4 INDUSTRY TOTAL	9%	—	1%	—		—	—	6%
YEAR TO DATE MONTHLY AVERAGE	82,058	—	5419	—	69,381	—	—	$39,259
YEAR TO DATE TOTAL	492,346	—	32511	—	416,284	—	—	$164,459
TOTALS	868,405	—	453,960	—	795,885	—	21110	$503,287
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	—	525	15,132 *	862	* 26,530	72	681	$16,776 *

note [illegible]

(year to date total (kg)) divided by (year to date flow / 1000)

* average based on [illegible] 31 days

INDUSTRIAL SUMMARY SHEET DATE July 19 86

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L * upjohn no CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8655	1784	15,445	2235	19,229	58	505	$11,577
YEAR TO DATE DAILY AVERAGE	8337	1471	12,268	2391	19,933	72	622	$10,001
MONTHLY HIGH	10445 (16)	7340 (13)	47,805 (13)	11850 (25)	99,564 (25)	133 (17)	1375 (17)	—
MONTHLY LOW	6100 (4)	410 (25)	3445 (25)	575 (22)	4741 (22)	15 (15)	151 (15)	—
MONTHLY TOTAL	268315	—	478818	—	599201	—	15655	$358,894
% OF 4 INDUSTRIAL TOTAL	27%	—	85%	—	72%	—		65%
YEAR TO DATE MONTHLY AVERAGE	252,519	—	371,387	—	603,705	—	19,154	$303,204
YEAR TO DATE TOTAL	1,767,637	—	2,599,715	—	4,225,936	—	95,772	$2,122,433
ALLIED								
DAILY AVERAGE	4969	114	567	303	1506	—	—	$1621
YEAR TO DATE DAILY AVERAGE	2813	84	236	287	809	—	—	$996
MONTHLY HIGH	9731 (29)	608 (2)	5436 (2)	830 (2)	7421 (2)	—	—	—
MONTHLY LOW	0 (4)	12 (11)	6 (3)	100 (19)	531 (19)	—	—	—
MONTHLY TOTAL	154045	—	17591	—	46,716	—	—	$50,258
% of 4 INDUSTRY TOTAL	15%	—	3%	—	6%	—	—	9
YEAR TO DATE MONTHLY AVERAGE	85,196	—	7,167	—	24,501	—	—	$30,181
YEAR TO DATE TOTAL	596,372	—	50175	—	171,513	—	—	$211,267
GEORGIA PACIFIC								
DAILY AVERAGE	14,028	44	620	234	3284	—	—	$2994
YEAR TO DATE DAILY AVERAGE	13,359	58	788	273	3648	—	—	$2948
MONTHLY HIGH	20243 (22)	126 (17)	1561 (17)	460 (22)	9312 (22)	—	—	—
MONTHLY LOW	9600 (4)	12 (31)	177 (31)	100 (6)	1605 (6)	—	—	—
MONTHLY TOTAL	434880	—	19225	—	101818	—	—	$92,818
% OF 4 INDUDTRIAL TOTAL	44%	—	3%	—	12%	—	—	17%
YEAR TO DATE MONTLY AVERAGE	404,608	—	23,871	—	110,493	—	—	$89,300
YEAR TO DATE TOTAL	2,832,256	—	167,099	—	773,457	—	—	$625,101
JAMES RIVER								
DAILY AVERAGE	4351	362	1,577	606	2639	—	—	$1650
YEAR TO DATE DAILY AVERAGE	2959	130	383	794	2349	—	—	$1017
MONTHLY HIGH	9777 (27)	5170 (20)	22,422 (20)	1440 (22)	9098 (8)	—	—	—
MONTHLY LOW	786 (6)	14 (16)	31 (22)	200 (29)	284 (7)	—	—	—
MONTHLY TOTAL	134,886	—	48895	—	81,811	—	—	$51,166
% OF 4 INDUSTRY TOTAL	14%	—	9%	—	10%	—	—	9%
YEAR TO DATE MONTHLY AVERAGE	89,605	—	11,629	—	71,156	—	—	$30,803
YEAR TO DATE TOTAL	627,252	—	81,406	—	498095	—	—	$215,625
TOTALS	992,126	—	564,529	—	829,546	—	15,655	$553,136
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	—	567	18,210	834	26,759	58	505	$17,843

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INDUSTRIAL SUMMARY SHEET

DATE August 19 86

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L *upjohn is CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8296	1361	11,280	2063	17,114	49	410	$9817
YEAR TO DATE DAILY AVERAGE	8393	1457	12,137	2349	19,574	69	593	$9987
MONTHLY HIGH	9880 (1)	3760 (19)	35,145 (19)	3858 (26)	35,933 (26)	113 (1)	1116 (1)	—
MONTHLY LOW	6257 (2)	135 (8)	1227 (8)	685 (3)	4597 (9)	7 (9)	51 (9)	—
MONTHLY TOTAL	257,190	—	349693	—	530,542	—	12716	$304,342
% OF 4 INDUSTRIAL TOTAL	30%	—	93%	—	76%	—		68%
YEAR TO DATE MONTHLY AVERAGE	253,103	—	368,676	—	594,560	—	18,081	$303,347
YEAR TO DATE TOTAL	2,024,827	—	2,949,408	—	4,756,478	—	108,488	$2,426,775
ALLIED								
DAILY AVERAGE	4136	43	181	275	1,143	—	—	$1,259
YEAR TO DATE DAILY AVERAGE	2984	77	230	285	852	—	—	$1,030
MONTHLY HIGH	7131 (1)	200 (6)	1098 (6)	500 (3)	2725 (3)	—	—	—
MONTHLY LOW	2347 (23)	4 (27)	13 (27)	130 (20)	367 (20)	—	—	—
MONTHLY TOTAL	128,834	—	5614	—	35,433	—	—	$39,042
% of 4 INDUSTRY TOTAL	15%	—	1.5%	—	5%	—	—	9%
YEAR TO DATE MONTHLY AVERAGE	90,651	—	6974	—	25,868	—	—	$31,289
YEAR TO DATE TOTAL	725,206	—	55,789	—	206,946	—	—	$250,309
GEORGIA PACIFIC								
DAILY AVERAGE	12,914	31	403	240	3103	—	—	$2733
YEAR TO DATE DAILY AVERAGE	13,303	55	739	269	3579	—	—	$2920
MONTHLY HIGH	15,648 (17)	84 (28)	1186 (28)	365 (3)	5252 (3)	—	—	—
MONTHLY LOW	10,542 (29)	6 (27)	80 (27)	135 (21)	1490 (21)	—	—	—
MONTHLY TOTAL	400,319	—	12482	—	96,200	—	—	$84,410
% OF 4 INDUDTRIAL TOTAL	47%	—	3.2%	—	14%	—	—	19%
YEAR TO DATE MONTLY AVERAGE	404,072	—	22,448	—	108,707	—	—	$88,689
YEAR TO DATE TOTAL	3,232,575	—	179,581	—	869,657	—	—	$709,511
JAMES RIVER								
DAILY AVERAGE	1967	175	344	608	1,195	—	—	$657
YEAR TO DATE DAILY AVERAGE	2832	134	379	778	2,202	—	—	$971
MONTHLY HIGH	6030 (12)	1070 (17)	2684 (3)	939 (1)	2629 (1)	—	—	—
MONTHLY LOW	703 (9)	8 (8)	14 (8)	178 (10)	125 (10)	—	—	—
MONTHLY TOTAL	60983	—	10,662	—	37,061	—	—	$20,363
% OF 4 INDUSTRY TOTAL	7%	—	3%	—	5%	—	—	4%
YEAR TO DATE MONTHLY AVERAGE	86,027	—	11,509	—	66,894	—	—	$29,498
YEAR TO DATE TOTAL	688,215	—	92,068	—	533,156	—	—	$235,988
TOTALS	847,326		378,451		699,236		12716	$448,157
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	—	447	12,208	825	22,556	49	410	$14,457

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September 1986

INDUSTRIAL SUMMARY SHEET

September 1986

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L * upjohn ~ CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8459	1652	13,976	1,954	16,530	41	344	$10,541
YEAR TO YEAR DAILY AVERAGE	8346	1478	12,340	2305	19,239	65	555	$10,048
MONTHLY HIGH	10315 (24)	4820 (23)	45,264 (23)	4033 (30)	34431 (10)	105 (25)	856 (24)	—
MONTHLY LOW	6050 (27)	340 (1)	2611 (13)	600 (19)	3533 (13)	14 (6)	0 (6)	—
MONTHLY TOTAL	253781	—	419292	—	495916	—	10330	$316,230
% OF 4 INDUSTRIAL TOTAL	31%	—	94%	—	74%	—		69%
YEAR TO DATE MONTHLY AVERAGE	253,179	—	374,300	—	583,599	—	13,202	$304,778
YEAR TO DATE TOTAL	2,278,608	—	3,368,700	—	5,252,394	—	118,818	$2,743,005
ALLIED								
DAILY AVERAGE	3725	61	226	283	1053	—	—	$1159
YEAR TO DATE AVERAGE	3066	75	229	285	874	—	—	$1044
MONTHLY HIGH	7301 (11)	1095 (28)	2681 (28)	520 (23)	2840 (23)	—	—	—
MONTHLY LOW	1229 (7)	4 (14)	9 (6)	110 (29)	319 (7)	—	—	—
MONTHLY TOTAL	111762	—	6778	—	31581	—	—	$34,761
% of 4 INDUSTRY TOTAL	13%	—	1%	—	5%	—	—	8%
YEAR TO DATE MONTHLY AVERAGE	92,996	—	6952	—	26,503	—	—	$31,674
YEAR TO DATE TOTAL	836,968	—	62,567	—	238,527	—	—	$285,070
GEORGIA PACIFIC								
DAILY AVERAGE	12,739	36	456	248	3154	—	—	$2,722
YEAR TO DATE DAILY AVERAGE	13,241	53	708	267	3532	—	—	$2,898
MONTHLY HIGH	16682 (7)	86 (8)	901 (8)	380 (20)	4787 (22)	—	—	—
MONTHLY LOW	9835 (10)	14 (13)	171 (5)	130 (29)	1845 (29)	—	—	—
MONTHLY TOTAL	382166	—	13673	—	94635	—	—	$81,659
% OF 4 INDUDTRIAL TOTAL	46%	—	3%	—	14	—	—	18%
YEAR TO DATE MONTLY AVERAGE	401,638	—	21,473	—	107,143	—	—	$87,908
YEAR TO DATE TOTAL	3,614,741	—	193,254	—	964,292	—	—	$791,170
JAMES RIVER								
DAILY AVERAGE	2623	54	141	641	1,682	—	—	$801
YEAR TO DATE DAILY AVERAGE	2809	126	353	764	2145	—	—	$952
MONTHLY HIGH	10,801 (28)	196 (11)	540 (29)	1283 (14)	4050 (28)	—	—	—
MONTHLY LOW	969 (19)	20 (23)	29 (8)	275 (2)	497 (1)	—	—	—
MONTHLY TOTAL	78683	—	4235	—	50,458	—	—	$24,043
% OF 4 INDUSTRY TOTAL	10%	—	1%	—	7%	—	—	5%
YEAR TO DATE MONTHLY AVERAGE	85,211	—	10,700	—	65,068	—	—	$28,892
YEAR TO DATE TOTAL	766,898	—	96,303	—	585,614	—	—	$260,031
TOTALS	826,392		443,978		672,590		10,330	$456,693
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW		537	14,799	814	22,420	41	344	$15,223

INDUSTRIAL SUMMARY SHEET DATE October 19 86

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L	BOD KG * upjohn ~ CBOD	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	8744	1564	13,679	2,048	17,910	62	541	$10,848
YEAR TO DATE DAILY AVERAGE	8355	1489	12,435	2,279	19,041	53	445	$10,096
MONTHLY HIGH	10964 (3)	3720 (4)	28,220 (23)	4317 (13)	36,880 (13)	167 (10)	1518 (10)	–
MONTHLY LOW	6057 (18)	330 (25)	2251 (25)	750 (30)	5813 (4)	20 (23)	163 (23)	–
MONTHLY TOTAL	271061	–	424048	–	555,223	–	16777	$336,290
% OF 4 INDUSTRIAL TOTAL	30%	–	92%	–	73%	–		68%
YEAR TO DATE MONTHLY AVERAGE	254,768	–	379,275	–	580,762	–	13,560	$307,930
YEAR TO DATE TOTAL	2547678	–	3,792,748	–	5,807,617	–	135,595	3,079,295
ALLIED								
DAILY AVERAGE	3480	108	377	292	1,017	–	–	$1137
YEAR TO DATE DAILY AVERAGE	3098	79	243	286	885	–	–	$1050
MONTHLY HIGH	5294 (15)	1210 (29)	3174 (29)	700 (1)	2257 (1)	–	–	–
MONTHLY LOW	1823 (9)	8 (11)	18 (11)	120 (25)	525 (30	–	–	–
MONTHLY TOTAL	107,872	–	11,687	–	31521	–	–	$35,242
% of 4 INDUSTRY TOTAL	12%	–	2%	–	4%	–	–	7%
YEAR TO DATE MONTHLY AVERAGE	94,484	–	7,425	–	27,005	–	–	$32,031
YEAR TO DATE TOTAL	944,840	–	74,254	–	270,048	–	–	$320,312
GEORGIA PACIFIC								
DAILY AVERAGE	13,203	44	576	257	3,400	–	–	$2,888
YEAR TO DATE DAILY AVERAGE	13,193	52	692	266	3507	–	–	$2,888
MONTHLY HIGH	19,571 (4)	106 (2)	1600 (2)	510 (27)	5488 (26)	–	–	–
MONTHLY LOW	8349 (28)	8 (8)	122 (8)	10 (8)	152 (8)	–	–	–
MONTHLY TOTAL	404,293	–	17853	–	105,388	–	–	$89,533
% OF 4 INDUDTRIAL TOTAL	46%	–	3%	–	13%	–	–	18%
YEAR TO DATE MONTLY AVERAGE	402,403	–	21,111	–	106,968	–	–	$88,070
YEAR TO DATE TOTAL	4,024,034	–	211,107	–	1,069,680	–	–	$880,703
JAMES RIVER								
DAILY AVERAGE	3140	48	152	697	2188	–	–	$983
YEAR TO DATE DAILY AVERAGE	2834	117	331	756	2142	–	–	$952
MONTHLY HIGH	6458 (7)	108 (25)	426 (25)	1080 (19)	4650 (7)	–	–	–
MONTHLY LOW	1413 (31)	26 (7)	85 (21)	270 (27)	1060 (31)	–	–	–
MONTHLY TOTAL	97350	–	4710	–	67,845	–	–	$30,462
% OF 4 INDUSTRY TOTAL	12%	–	3%	–	10%	–	–	7%
YEAR TO DATE MONTHLY AVERAGE	86,425	–	10,101	–	65,346	–	–	$29,049
YEAR TO DATE TOTAL	864,248	–	101,013	–	653,459	–	–	$290,493
TOTALS	885,576		458298		759,977		16,777	$491,527
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	–	517	14,784	858	24,515	62	541	$15,856

MONTHLY 31 days MONTHLY 31 days monthly 31 days

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INDUSTRIAL SUMMARY SHEET DATE November 19 86

UPJOHN	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L * upjohn no CBOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
DAILY AVERAGE	8069	1,256	10,470	1597	13,313	51	428	$ 8,868
YEAR TO DATE DAILY AVERAGE	8377	1,565	13,107	2370	19,854	53	444	$10,149
MONTHLY HIGH	10,434 (11)	2580 (4)	24,195 (4)	2825 (17)	26,651 (17)	74 (25)	751 (11)	—
MONTHLY LOW	6125 (8)	30 (8)	184 (8)	400 (2)	2852 (30)	9 (2)	65 (2)	—
MONTHLY TOTAL	250130	—	314096	—	399377	—	12854	$ 266035
% OF 4 INDUSTRIAL TOTAL	33%	—	93%	—	68%	—		64%
YEAR TO DATE MONTHLY AVERAGE	254,346	—	397,967	—	602,851	—	13,509	$308,166
YEAR TO DATE TOTAL	2,797,808	—	4,377,636	—	6,631,358	—	148,595	$3,389,822
ALLIED								
DAILY AVERAGE	2331	68	159	294	685			$ 755
YEAR TO DATE DAILY AVERAGE	4,018	59	237	217	871			$1,112
MONTHLY HIGH	8055 (24)	247 (26)	1152 (24)	510 (7)	1970 (7)			—
MONTHLY LOW	564 (19)	2 (21)	1.5 (21)	100 (2)	92 (22)			—
MONTHLY TOTAL	69933	—	4776	—	20,563	—	—	$22,647
% of 4 INDUSTRY TOTAL	9%	—	1%	—	3%			5%
YEAR TO DATE MONTHLY AVERAGE	121,484	—	7184	—	26,446			$33,770
YEAR TO DATE TOTAL	1,341,956	—	79,030	—	290,906			$371,472
GEORGIA PACIFIC								
DAILY AVERAGE	12,733	41	528	310	3,952			$2,897
YEAR TO DATE DAILY AVERAGE	13,298	51	679	272	3,623			$3,251
MONTHLY HIGH	15455 (12)	112 (11)	1485 (11)	770 (7)	8896 (7)			—
MONTHLY LOW	7938 (1)	6 (26)	67 (26)	185 (13	2458 (13)			—
MONTHLY TOTAL	382004	—	15845	—	118574	—	—	$86,915
% OF 4 INDUDTRIAL TOTAL	50%	—	5%	—	20%			21%
YEAR TO DATE MONTLY AVERAGE	403,789	—	20,632	—	110,017			$98,708
YEAR TO DATE TOTAL	4,441,675	—	226,952	—	1210186			1,085,793
JAMES RIVER								
DAILY AVERAGE	1990	70	140	835	1661			$ 700
YEAR TO DATE DAILY AVERAGE	3 080	102	315	693	2136			$ 933
MONTHLY HIGH	4820 (26)	208 (20)	330 (20)	1350 (25)	3904 (26)			—
MONTHLY LOW	1162 (25)	14 (28)	22 (28)	300 (29)	951 (27)			—
MONTHLY TOTAL	59705	—	4190	—	49,845	—	—	$21,015
% OF 4 INDUSTRY TOTAL	8%	—	1%	—	8%			8%
YEAR TO DATE MONTHLY AVERAGE	93,528	—	9564	—	64,863			$28,319
YEAR TO DATE TOTAL	1,028,809	—	105,203	—	713,495			$311,508
TOTALS	761,724		338907		588,361	51	12,854	$416,226
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW		428	11,297	758	19,612		428	$13,912

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INDUSTRIAL SUMMARY SHEET DATE December 19 86

	FLOW / M^3	SUSPENDED SOLIDS MG/L	SUSPENDED SOLIDS KGS	BOD MG/L upjohn no C BOD	BOD KG	NH_3-N MG/L	NH_3 N KG	TOTAL USER FEE $
UPJOHN								
DAILY AVERAGE	7761	1332	10,339	2340	18,157	48	375	$9,599
YEAR TO DATE DAILY AVERAGE	8324	1546	12,872	2368	19,710	53	439	$10,102
MONTHLY HIGH	9741 (3)	2820 (18)	26,232 (18)	6400 (16)	58,944 (15)	120 (28)	767 (4)	–
MONTHLY LOW	4812 (25)	228 (7)	1614 (7)	260 (27)	1319 (27)	2 (27)	10 (27	–
MONTHLY TOTAL	240576	–	320,523	–	562874	–	11614	$297557
% OF 4 INDUSTRIAL TOTAL	30%	–	91%	–	73%	–		67%
YEAR TO DATE MONTHLY AVERAGE	253,199	–	391,513	–	599,519	–	13,351	$307,282
YEAR TO DATE TOTAL	3,038,384	–	4,698,159	–	7,194,232	–	160,209	$3,687,379
ALLIED								
DAILY AVERAGE	2,322	58	135	297	689			$748
YEAR TO DATE DAILY AVERAGE	3,874	59	228	226	876			$1,081
MONTHLY HIGH	5806 (3)	430 (16)	780 (16)	760 (9)	3077 (3)			–
MONTHLY LOW	564 (22)	6 (26)	11 (31)	50 (27)	70 (27)	–	–	–
MONTHLY TOTAL	71,977	–	4170	–	21,367			$23,185
% of 4 INDUSTRY TOTAL	9%	–	1%	–	3%			5%
YEAR TO DATE MONTHLY AVERAGE	117,828	–	6,933	–	26,640			$32,888
YEAR TO DATE TOTAL	1,413,933	–	83,200	–	319,685			$394,657
GEORGIA PACIFIC								
DAILY AVERAGE	13,416	50	671	283	3,800			$3,013
YEAR TO DATE DAILY AVERAGE	13,308	51	679	273	3,638			$3,231
MONTHLY HIGH	21,434 (7)	136 (24)	1329 (7)	690 (16)	10,059 (16)			–
MONTHLY LOW	5110 (25)	8 (20)	102 (20)	70 (26)	469 (26)			–
MONTHLY TOTAL	415,887	–	20,796	–	117,798	–	–	$93,399
% OF 4 INDUDTRIAL TOTAL	52%	–	6%	–	15%			21%
YEAR TO DATE MONTLY AVERAGE	404,797	–	20,646	–	110,665			$98,266
YEAR TO DATE TOTAL	4,857,562	–	247,748	–	1,327,984			$1,179,192
JAMES RIVER								
DAILY AVERAGE	2531	68	172	822	2,080			$874
YEAR TO DATE DAILY AVERAGE	3034	100	303	703	2,131			$928
MONTHLY HIGH	4671 (28)	178 (24)	432 (3)	2100 (16)	4992 (16)			–
MONTHLY LOW	1370 (25)	20 (19)	42 (19)	300 (28)	789 (27)			–
MONTHLY TOTAL	78,468	–	5328	–	64,494	–	–	$27,100
% OF 4 INDUSTRY TOTAL	9%	–	2%	–	9%			7%
YEAR TO DATE MONTHLY AVERAGE	92,273	–	9,211	–	64,832			$28,217
YEAR TO DATE TOTAL	1,107,277	–	110531	–	777,989			$338608
TOTALS	806,908		350,817		766,533	48	11,614	$441,241
WEIGHTED AVERAGED BASED ON DAILY AVERAGE FLOW	26,029 monthly 31 days	435	11,317 monthly 31 days	950	24,727 monthly 31 days		375	$14,234 monthly 31 days

PORTAGE PAPER

1993

1993

PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	761	*	99	75.3	249	189.5
April	2	712		110	78.3	374	266.1
April	3	1,192		126	150.2	392	466.7
April	4	206		60	12.4	394	81.2
April	5	110		98	10.8	486	53.5
April	6	712		88	62.7	349	248.8
April	7	660	*	104	68.6	350	231.0
April	8	1,193	*	100	119.3	261	311.4
April	9	838		116	97.2	403	337.4
April	10	929		160	148.6	501	465.2
April	11	1,103		172	189.7	542	597.5
April	12	224		460	103.0	526	117.7
April	13	1,070		75	80.3	460	492.1
April	14	1,031		54	55.7	435	448.8
April	15	1,000		46	46.0	531	531.5
April	16	778		80	62.2	310	240.9
April	17	672		64	43.0	416	279.4
April	18	955		64	61.1	388	370.7
April	19	914		90	82.3	357	326.6
April	20	1,993		218	434.5	328	652.7
April	21	1,007		84	84.6	323	325.7
April	22	982		44	43.2	359	352.5
April	23	979		48	47.0	346	338.4
April	24	1,111		62	68.9	501	557.0
April	25	962		114	109.7	368	354.3
April	26	876	*	173	151.5	390	341.6
April	27	887		124	110.0	442	391.7
April	28	973	*	78	75.9	347	337.6
April	29	709		114	80.8	435	308.1
April	30	1,023		90	92.1	411	420.3
TOTALS		26,562			2,844.9		10,435.9

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	1,111	60	66.7	290	322.7
May	2	985	102	100.5	325	319.7
May	3	1,011	100	101.1	400	404.2
May	4	1,048	78	81.7	304	318.7
May	5	989	160	158.2	314	310.9
May	6	1,054	76	80.1	316	333.1
May	7	989	136	134.5	326	322.0
May	8	1,001	116	116.1	275	275.5
May	9	955	224	213.9	305	291.7
May	10	1,021	80	81.7	372	380.0
May	11	1,140	116	132.2	280	319.5
May	12	1,569	160	251.0	508	797.7
May	13	1,135	152	172.5	633	717.9
May	14	860	120	103.2	634	544.9
May	15	1,211 *	98	118.7	396	479.6
May	16	1,211	116	140.5	439	531.8
May	17	1,335	408	544.7	496	661.7
May	18	1,024	72	73.7	444	454.8
May	19	1,090	90	98.1	435	474.4
May	20	1,165	92	107.2	440	513.0
May	21	1,343	160	214.9	460	617.2
May	22	812	192	155.9	418	339.2
May	23	1,229	80	98.3	337	413.8
May	24	1,230	62	76.3	309	379.5
May	25	905	60	54.3	306	276.9
May	26	711	450	320.0	347	246.5
May	27	1,081	244	263.8	423	457.7
May	28	1,068	124	132.4	450	480.7
May	29	1,086	116	126.0	541	587.8
May	30	1,550	72	111.6	158	245.1
May	31	1,215	152	184.7	361	439.0
TOTALS		34,134		4,614.4		13,257.1

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	1,057	100	105.7	360	380.6
June	2	1,196	196	234.4	412	492.9
June	3	1,497	84	125.7	279	418.3
June	4	1,413	84	118.7	268	378.4
June	5	1,658	68	112.7	294	487.0
June	6	1,445	96	138.7	297	429.5
June	7	1,567	112	175.5	302	473.6
June	8	1,268	116	147.1	276	350.6
June	9	1561	140	218.5	276	430.2
June	10	1,093	76	83.1	85	92.5
June	11	1,357	116	157.4	440	597.6
June	12	1,539	100	153.9	327	503.6
June	13	1,153	108	124.5	446	514.6
June	14	1,320	160	211.2	401	528.7
June	15	1,298	1,040	1,349.9	1,234	1,602.0
June	16	2,853	126	359.5	497	1,418.8
June	17	1,698	416	706.4	1,457	2,473.4
June	18	1,206	184	221.9	405	487.9
June	19	1,111	140	155.5	433	480.7
June	20	1,326	168	222.8	447	593.2
June	21	1,272	304	386.7	405	515.7
June	22	1,144	384	439.3	413	472.2
June	23	1,169	216	252.5	359	419.3
June	24	1,152	146	168.2	356	409.7
June	25	1,698	184	312.4	334	567.9
June	26	1,523	116	176.7	320	487.8
June	27	1,746	212	370.2	399	695.8
June	28	1,517	160	242.7	352	533.3
June	29	2,359	140	330.3	359	847.3
June	30	2,358	132	311.3	332	781.9
TOTALS		44,554		8,113.4		18,865.0

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	1,594		116	184.9	396	631.7
July	2	1,170		88	103.0	291	340.0
July	3	1,578		76	119.9	395	623.7
July	4	1,428		72	102.8	459	655.9
July	5	1,372		128	175.6	425	583.6
July	6	1,668		152	253.5	442	738.0
July	7	1,559		128	199.6	456	710.3
July	8	1,654		112	185.2	508	841.0
July	9	2042		92	187.9	421	859.3
July	10	1,711		96	164.3	400	683.5
July	11	1,724		56	96.5	444	764.8
July	12	1,406		76	106.9	465	654.0
July	13	1,560		76	118.6	470	733.6
July	14	2,362		98	231.5	425	1,003.6
July	15	1,445		116	167.6	373	538.7
July	16	1,880		76	142.9	430	807.5
July	17	2,252		132	297.3	405	911.2
July	18	1,781		212	377.6	406	722.5
July	19	2,160		188	406.1	323	698.5
July	20	1,951		136	265.3	359	699.9
July	21	1,512		96	145.2	384	580.2
July	22	1,734		70	121.4	368	637.7
July	23	2,034		88	179.0	385	782.9
July	24	2,784		96	267.3	435	1,211.2
July	25	2,795		265	740.7	375	1,047.7
July	26	2,512		180	452.2	330	829.9
July	27	1,902	*	167	317.6	386	734.2
July	28	2,004		1,430	2,865.7	367	734.9
July	29	1,723		98	168.9	316	544.7
July	30	1,439		90	129.5	430	618.4
July	31	1,728		112	193.5	306	528.9
TOTALS		56,464			9,467.7		22,451.9

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	1,389	790	1,097.3	260	360.9
August	2	1,740	2,370	4,123.8	209	363.8
August	3	1,711	324	554.4	250	427.5
August	4	1,500	232	348.0	452	678.0
August	5	1,783	126	224.7	415	740.8
August	6	1,519	178	270.4	517	785.2
August	7	1,920	132	253.4	550	1,055.8
August	8	1,364	260	354.6	456	622.4
August	9	1748	265	463.2	515	899.3
August	10	1,620	215	348.3	419	679.5
August	11	1,930	168	324.2	439	848.2
August	12	2,110	168	354.5	488	1,029.2
August	13	1,461	156	227.9	553	807.7
August	14	1,706	164	279.8	548	935.2
August	15	1,771	128	226.7	412	730.4
August	16	1,608	236	379.5	477	766.9
August	17	1,807	180	325.3	505	912.0
August	18	1,628	120	195.4	496	806.7
August	19	1,653	172	284.3	502	829.5
August	20	1,872	244	456.8	573	1,073.0
August	21	1,741	136	236.8	503	875.4
August	22	1,521	116	176.4	440	668.6
August	23	1,720	132	227.0	373	640.8
August	24	1,886	140	264.0	401	756.3
August	25	1,702	64	108.9	330	562.3
August	26	1,759	76	133.7	325	571.7
August	27	1,712	86	147.2	362	618.9
August	28	1,765	58	102.4	410	724.0
August	29	2,134	66	140.8	432	922.6
August	30	1,928	54	104.1	374	721.1
August	31	1,424	50	71.2	456	649.8
TOTALS		53,132		12,805.1		23,063.5

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	1,657		88	145.8	378	625.8
September	2	1,817		100	181.7	345	626.8
September	3	1,983		68	134.8	391	775.6
September	4	1,712	*	64	109.6	459	785.8
September	5	1,791		56	100.3	349	625.1
September	6	1,892		40	75.7	407	770.6
September	7	1,277		84	107.3	311	396.9
September	8	1,679		48	80.6	344	578.0
September	9	1832		58	106.3	383	701.3
September	10	1,767		116	205.0	377	666.1
September	11	1,391		52	72.3	428	595.2
September	12	1,755		44	77.2	280	490.8
September	13	1,672		44	73.6	240	400.8
September	14	1,813	*	42	76.1	293	531.2
September	15	2,065		28	57.8	65	133.4
September	16	1,388		16	22.2	160	222.6
September	17	1,520		24	36.5	91	138.2
September	18	1,627		26	42.3	122	198.2
September	19	1,840		24	44.2	203	373.3
September	20	1,794		56	100.5	263	471.0
September	21	1,450		40	58.0	262	379.8
September	22	1,571		44	69.1	265	416.2
September	23	1,581		38	60.1	280	443.0
September	24	1,294		42	54.3	301	390.0
September	25	1,233		40	49.3	301	371.6
September	26	1,730		40	69.2	358	619.1
September	27	1,400		40	56.0	382	535.4
September	28	633		52	32.9	349	220.6
September	29	868		24	20.8	499	432.8
September	30	1,610		48	77.3	447	720.2
TOTALS		47,642			2,396.8		14,635.4

* BOD data estimated.

1993		PORTAGE PAPER				
		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	1,318	40	52.7	470	619.8
October	2	1,610	48	77.3	398	641.6
October	3	1,294	52	67.3	374	483.7
October	4	1,672	24	40.1	500	836.4
October	5	1,447	26	37.6	448	648.4
October	6	1,336	30	40.1	418	558.1
October	7	1,720	36	61.9	424	728.5
October	8	1,366	28	38.2	532	727.0
October	9	2073	28	58.0	490	1,014.9
October	10	1,708	36	61.5	390	666.7
October	11	1,277	60	76.6	461	588.4
October	12	1,121	72	80.7	472	528.6
October	13	1,514	64	96.9	501	757.8
October	14	1,497	96	143.7	428	641.1
October	15	1,171	76	89.0	607	710.9
October	16	1,962	56	109.9	668	1,311.2
October	17	1,898	52	98.7	437	829.2
October	18	1,537	44	67.6	512	786.2
October	19	749	52	38.9	816	611.2
October	20	1,271	60	76.3	517	656.5
October	21	1,866	38	70.9	455	848.1
October	22	1,498	76	113.8	402	602.5
October	23	1,535	32	49.1	410	628.9
October	24	1,416	44	62.3	421	596.6
October	25	1,206	54	65.1	415	500.7
October	26	1,134	52	59.0	482	546.1
October	27	1,190	54	64.3	483	575.2
October	28	1,138	52	59.2	420	478.4
October	29	1,121	40	44.8	287	322.0
October	30	1,790	24	43.0	247	441.4
October	31	1,628	8	13.0	285	463.5
TOTALS		45,063		2,057.7		20,349.5

* BOD data estimated.

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	1,422		28	39.8	288	409.9
November	2	1,409		32	45.1	302	426.0
November	3	1,596		32	51.1	284	453.2
November	4	2,553		26	66.4	238	607.3
November	5	1,697		14	23.8	189	321.2
November	6	1,762		12	21.1	60	105.7
November	7	1,732		16	27.7	307	532.1
November	8	1,697		22	37.3	253	429.7
November	9	1645		92	151.3	328	539.7
November	10	1,778		22	39.1	354	629.9
November	11	1,797		22	39.5	359	644.4
November	12	1,684		28	47.2	224	376.4
November	13	1,071		16	17.1	253	270.5
November	14	1,878		12	22.5	196	367.3
November	15	1,792	*	18	32.3	405	725.8
November	16	1,687		16	27.0	231	389.3
November	17	1,702		30	51.1	275	468.1
November	18	1,746		34	59.4	311	542.8
November	19	1,610		28	45.1	327	526.1
November	20	1,638		28	45.9	319	521.8
November	21	1,925		20	38.5	341	655.8
November	22	2,794		32	89.4	295	823.9
November	23	410		44	18.0	399	163.6
November	24	349	**	44	15.4	402	140.3
November	25	24		36	0.9	1,098	26.3
November	26	0		42	0.0	1,226	0.0
November	27	0		62	0.0	1,256	0.0
November	28	0			0.0		0.0
November	29	0			0.0		0.0
November	30	0			0.0		0.0
					0.0		0.0
TOTALS		39,398			1,051.9		11,097.1

* TSS data estimated.

** BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	0		0.0		0.0
December	2	3,857	132	509.1	248	954.6
December	3	5,305	74	392.6	60	318.3
December	4	4,620	84	388.1	198	912.7
December	5	4,557	54	246.1	60	273.4
December	6	4,444	44	195.5	205	909.1
December	7	4,720	32	151.0	186	880.1
December	8	4,272	38	162.3	177	755.1
December	9	4527	24	108.6	60	271.6
December	10	4,761	60	285.7	181	859.9
December	11	4,888	24	117.3	198	966.4
December	12	3,759	26	97.7	173	651.3
December	13	4,695	22	103.3	60	281.7
December	14	4,014	34	136.5	204	819.3
December	15	1,563	36	56.3	336	525.8
December	16	1,539	26	40.0	271	417.4
December	17	1,139	42	47.8	411	468.0
December	18	897	36	32.3	336	301.6
December	19	699	30	21.0	303	211.5
December	20	1,275	74	94.4	331	421.4
December	21	1,102	48	52.9	359	395.3
December	22	1,389	48	66.7	430	597.9
December	23	1,399	32	44.8	426	595.6
December	24	1,638	46	75.3	414	678.5
December	25	594	60	35.6	358	212.7
December	26	371	26	9.6	293	108.6
December	27	424	50	21.2	205	87.1
December	28	1,076	54	58.1	211	226.7
December	29	1,194	46	54.9	204	244.0
December	30	1,276	30	38.3	223	284.7
December	31	1,109	32	35.5	195	216.0
TOTALS		77,103		3,678.6		14,846.5

* TSS data estimated.

** BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	0		0.0		0.0
December	2	3,857	132	509.1	248	954.6
December	3	5,305	74	392.6	60	318.3
December	4	4,620	84	388.1	198	912.7
December	5	4,557	54	246.1	60	273.4
December	6	4,444	44	195.5	205	909.1
December	7	4,720	32	151.0	186	880.1
December	8	4,272	38	162.3	177	755.1
December	9	4527	24	108.6	60	271.6
December	10	4,761	60	285.7	181	859.9
December	11	4,888	24	117.3	198	966.4
December	12	3,759	26	97.7	173	651.3
December	13	4,695	22	103.3	60	281.7
December	14	4,014	34	136.5	204	819.3
December	15	1,563	36	56.3	336	525.8
December	16	1,539	26	40.0	271	417.4
December	17	1,139	42	47.8	411	468.0
December	18	897	36	32.3	336	301.6
December	19	699	30	21.0	303	211.5
December	20	1,275	74	94.4	331	421.4
December	21	1,102	48	52.9	359	395.3
December	22	1,389	48	66.7	430	597.9
December	23	1,399	32	44.8	426	595.6
December	24	1,638	46	75.3	414	678.5
December	25	594	60	35.6	358	212.7
December	26	371	26	9.6	293	108.6
December	27	424	50	21.2	205	87.1
December	28	1,076	54	58.1	211	226.7
December	29	1,194	46	54.9	204	244.0
December	30	1,276	30	38.3	223	284.7
December	31	1,109	32	35.5	195	216.0
TOTALS		77,103		3,678.6		14,846.5

* TSS data estimated.
** BOD and TSS data estimated.

1994

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	1,141		86	98.1	251	286.2
January	2	1,301		46	59.8	273	355.2
January	3	1,079		62	66.9	356	384.1
January	4	1,079		46	49.6	517	557.6
January	5	637		50	31.9	371	236.0
January	6	2,015		48	96.7	482	970.5
January	7	1,415		40	56.6	498	704.5
January	8	2,025		44	89.1	384	777.8
January	9	1258		30	37.7	436	548.4
January	10	1,543		38	58.6	402	620.6
January	11	1,587		32	50.8	395	626.6
January	12	1,530		36	55.1	411	628.1
January	13	1,458		32	46.7	381	554.9
January	14	1,564		48	75.1	486	760.2
January	15	1,477		22	32.5	410	606.0
January	16	356		20	7.1	311	110.8
January	17	1,494		22	32.9	207	310.0
January	18	1,698		72	122.3	197	333.9
January	19	1,698	*	42	71.3	210	357.4
January	20	689	**	32	22.0	307	211.5
January	21	3,025		152	459.8	302	912.5
January	22	4,495		84	377.6	339	1,522.3
January	23	5,002		48	240.1	225	1,127.5
January	24	4,430		66	292.4	198	877.9
January	25	3,936	***	38	149.6	212	836.0
January	26	3,936	***	46	181.1	220	864.8
January	27	4,331		48	207.9	295	1,277.6
January	28	4,708		36	169.5	255	1,200.5
January	29	3,934		26	102.3	200	786.4
January	30	4,532		30	136.0	221	1,000.2
January	31	4,414		36	158.9	319	1,408.1
TOTALS		73,787			3,635.8		21,754.2

* TSS data estimated.

** BOD and TSS data estimated.

*** Two day total (7872) ÷ 2

~~1993~~ 1994

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
February	1	2,585	42	108.6	270	698.0
February	2	2,371	30	71.1	308	730.3
February	3	2,932	30	88.0	346	1,014.5
February	4	2,058	42	86.4	371	763.5
February	5	2,331	40	93.2	248	578.1
February	6	990	34	33.7	228	225.7
February	7	1,002	46	46.1	198	198.7
February	8	2,001	38	76.0	145	289.3
February	9	1150	38	43.7	104	119.0
February	10	1,285	70	90.0	177	227.1
February	11	1,195	84	100.4	287	343.0
February	12	1,958	54	105.7	256	501.2
February	13	1,557	60	93.4	254	395.6
February	14	1,633	50	81.7	295	482.4
February	15	1,483	60	89.0	413	612.5
February	16	628	42	26.4	421	264.4
February	17	3,388	50	169.4	530	1,795.6
February	18	4,085	36	147.1	347	1,417.5
February	19	4,148	28	116.1	336	1,393.7
February	20	1,884	28	52.8	215	405.1
February	21	1,376	46	63.3	252	346.8
February	22	1,353	40	54.1	287	388.3
February	23	1,338	38	50.8	370	495.1
February	24	1,225	42	51.5	395	483.9
February	25	1,104	38	42.0	481	531.0
February	26	1,503	30	45.1	566	849.9
February	27	256	50	12.8	628	160.6
February	28	677	54	36.6	628	424.8
TOTALS		49,496		2,074.8		16,135.5

* TSS data estimated.

** BOD and TSS data estimated.

*** two day total (7872) divided by 2

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	612	70	42.8	365	223.4
March	2	1,471	76	111.8	525	771.5
March	3	1,018	80	81.4	536	545.1
March	4	917	98	89.9	584	535.5
March	5	1,016	54	54.9	579	588.3
March	6	918	58	53.2	634	581.6
March	7	1,243	46	57.2	578	717.8
March	8	1,118	42	47.0	543	607.1
March	9	1128	78	88.0	563	634.5
March	10	1,095	66	72.3	594	650.4
March	11	1,194	76	90.7	558	666.3
March	12	957	66	63.2	569	544.5
March	13	1,225	64	78.4	699	856.3
March	14	1,295	66	85.5	882	1,142.2
March	15	1,373	56	76.9	697	957.0
March	16	1,224	50	61.2	536	656.1
March	17	1,160	90	104.4	515	597.4
March	18	903	64	57.8	557	502.5
March	19	1,145	56	64.1	584	668.1
March	20	1,152	54	62.2	679	781.6
March	21	1,579	60	94.7	684	1,080.0
March	22	1,408	78	109.8	613	862.4
March	23	1,821	98	178.5	676	1,231.0
March	24	1,209	40	48.4	615	743.5
March	25	2,170	70	151.9	718	1,557.0
March	26	2,169	52	112.8	508	1,100.8
March	27	2,428	52	126.3	493	1,195.8
March	28	1,744	56	97.7	451	785.7
March	29	2,862	44	125.9	395	1,130.5
March	30	1,744	42	73.2	341	594.7
March	31	1,524	56	85.3	286	435.9
TOTALS		42,822		2,647.3		23,944.4

~~1993~~ 1994

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	1,617	54	87.3	299	483.5
April	2	1,744	68	118.6	284	495.3
April	3	2,603	76	197.8	247	642.9
April	4	1,792	62	111.1	289	517.9
April	5	1,802	70	126.1	622	1,120.8
April	6	1,764	56	98.8	300	529.2
April	7	2,243	78	175.0	371	832.2
April	8	2,284	74	169.0	238	543.6
April	9	2210	64	141.4	229	506.1
April	10	2,638	72	189.9	284	749.2
April	11	3,074	56	172.1	258	793.1
April	12	5,088	52	264.6	249	1,266.9
April	13	2,317	36	83.4	60	139.0
April	14	1,269	36	45.7	181	229.9
April	15	3,191	152	485.0	229	730.7
April	16	1,291	52	67.1	190	245.3
April	17	1,338	36	48.2	240	321.1
April	18	1,393	44	61.3	95	132.1
April	19	1,196	60	71.8	302	361.2
April	20	1,799	48	86.4	308	554.1
April	21	1,775	28	49.7	393	697.6
April	22	1,173	44	51.6	339	397.6
April	23	2,136	32	68.4	364	777.5
April	24	1,498	23	34.9	319	477.9
April	25	979	28	27.4	412	403.3
April	26	1,392	30	41.8	60	83.5
April	27	1,428	23	33.3	449	641.2
April	28	1,246	34	42.4	363	452.3
April	29	1,185	48	56.9	364	431.3
April	30	814	30	24.4	327	266.2
TOTALS		56,279		3,231.4		15,822.5

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	1,035		26	26.9	428	443.0
May	2	1,121		32	35.9	545	610.9
May	3	1,022		36	36.8	483	493.1
May	4	1,071		34	36.4	418	447.7
May	5	1,592		24	38.2	523	832.6
May	6	2,207		40	88.3	385	849.7
May	7	7,519		44	330.8	294	2,210.6
May	8	1,688		36	60.8	189	319.6
May	9	1408		48	67.6	274	385.8
May	10	1,517		118	179.0	317	480.9
May	11	3,065		48	147.1	457	1,399.2
May	12	3,336		58	193.5	416	1,387.8
May	13	3,752		56	210.1	259	971.8
May	14	2,446		56	137.0	208	508.8
May	15	1,550	*	45	69.8	285	441.8
May	16	1,299		50	65.0	291	378.0
May	17	1,578		62	97.8	291	459.2
May	18	3,248		56	181.9	356	1,156.3
May	19	3,780		56	211.7	307	1,160.5
May	20	2,368		42	99.5	323	764.9
May	21	1,926		48	92.4	190	365.9
May	22	2,209		42	92.8	262	578.8
May	23	2,053		50	102.7	230	472.2
May	24	8,856		32	282.7	205	1,815.5
May	25	7,878		21	167.6	152	1,195.9
May	26	6,013		29	175.9	170	1,022.8
May	27	6,151		32	196.8	193	1,184.7
May	28	7,725		40	309.0	171	1,321.0
May	29	7,828		32	250.5	91	713.9
May	30	5,890		24	141.4	114	673.2
May	31	6,229		30	186.9	60	373.7
TOTALS		109,360			4,312.6		25,419.6

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	5,628	34	191.4	163	918.5
June	2	6,190	14	86.7	83	516.2
June	3	5,790	27	154.0	209	1,210.1
June	4	6,367	17	110.1	165	1,048.6
June	5	7,020	9	63.2	163	1,145.7
June	6	6,031	23	136.4	137	825.0
June	7	6,469	30	194.1	157	1,016.9
June	8	5,992	38	227.7	143	855.7
June	9	4732	28	132.5	164	777.9
June	10	7,073	62	438.5	175	1,237.1
June	11	6,520	263	1,711.5	157	1,024.9
June	12	6,791	56	380.3	167	1,130.7
June	13	7,960	102	811.9	349	2,778.0
June	14	7,679	33	255.3	165	1,269.3
June	15	8,023	23	181.4	180	1,444.5
June	16	9,312	22	204.9	171	1,595.1
June	17	9,103	14	127.4	149	1,354.5
June	18	8,377	24	201.0	201	1,686.3
June	19	9,527	36	343.0	60	571.6
June	20	9,430	62	584.7	169	1,593.7
June	21	10,058	80	804.6	152	1,523.8
June	22	5,855	136	796.3	203	1,188.6
June	23	5,973	70	418.1	274	1,636.6
June	24	7,193	44	316.5	220	1,582.5
June	25	6,198	38	235.5	194	1,199.9
June	26	5,795	34	197.0	226	1,310.8
June	27	5,730	46	263.6	179	1,025.7
June	28	6,034	34	205.2	216	1,303.3
June	29	5,419	36	195.1	212	1,148.8
June	30	5,473	40	218.9	210	1,149.3
TOTALS		207,742		10,186.7		37,070.0

* BOD and TSS data estimated.

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PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	6,155	44	270.8	210	1,292.6
July	2	4,743	44	208.7	232	1,099.9
July	3	4,640	54	250.6	232	1,076.5
July	4	4,594	44	202.1	220	1,010.7
July	5	4,771	46	219.5	177	844.5
July	6	4,505	44	198.2	242	1,090.2
July	7	4,560	52	237.1	267	1,217.5
July	8	4,776	30	143.3	332	1,585.6
July	9	6044	53	317.3	319	1,928.0
July	10	6,841	36	246.3	249	1,703.4
July	11	4,865	108	525.4	186	903.9
July	12	4,355	57	246.5	60	261.3
July	13	4,439	48	213.1	204	904.4
July	14	4,534	40	181.4	176	799.8
July	15	3,500	52	182.0	123	429.5
July	16	3,460	38	131.5	122	420.4
July	17	3,894	21	83.5	141	550.2
July	18	3,974	226	898.1	173	687.9
July	19	2,758	118	325.4	171	470.8
July	20	2,422	45	109.2	197	478.1
July	21	6,051	58	351.0	258	1,561.2
July	22	2,270	42	95.3	196	444.0
July	23	2,464	50	123.2	244	601.2
July	24	2,072	40	82.9	362	750.1
July	25	1,999	86	171.5	378	755.6
July	26	3,496	26	90.9	500	1,748.0
July	27	3,106	40	124.2	321	997.0
July	28	2,695	40	107.8	336	905.5
July	29	2,233	38	84.9	343	765.9
July	30	1,940	34	66.0	493	956.4
July	31	1,895	56		606	
TOTALS		120,051		6,487.7		28,240.2

TSS data estimated.

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	1,518		56	85.0	443	672.5
August	2	1,490		62	92.4	677	1,008.7
August	3	1,500		86	129.0	693	1,039.5
August	4	1,494		58	86.7	903	1,349.1
August	5	1,747		50	87.4	720	1,257.8
August	6	3,609		40	144.4	60	216.5
August	7	2,389		44	105.1	444	1,060.7
August	8	3,664	*	94	344.4	263	963.6
August	9	4678		56	262.0	355	1,660.7
August	10	4,290		96	411.8	373	1,600.2
August	11	2,969		83	246.4	349	1,036.2
August	12	3,041		107	325.4	364	1,106.9
August	13	1,178		40	47.1	338	398.2
August	14	1,178		34	40.1	381	448.8
August	15	1,179		100	117.9	561	661.4
August	16	1,816		80	145.3	516	937.1
August	17	2,847		98	279.0	484	1,377.9
August	18	4,471		182	813.7	579	2,588.7
August	19	3,304		82	270.9	282	931.7
August	20	3,056		46	140.6	253	773.2
August	21	1,799		148	266.3	357	642.2
August	22	1,544		94	145.1	422	651.6
August	23	1,902		98	186.4	604	1,148.8
August	24	1,643		124	203.7	666	1,094.2
August	25	2,555		190	485.5	740	1,890.7
August	26	950		104	98.8	466	442.7
August	27	1,821		54	98.3	667	1,214.6
August	28	3,107		60	186.4	596	1,851.8
August	29	4,083		2,300	9,390.9	729	2,976.5
August	30	4,344		1,180	5,125.9	344	1,494.3
August	31	3,299		86	283.7	413	1,362.5
TOTALS		78,465			20,645.5		35,859.5

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PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	6,782		186	1,261.5	319	2,163.5
September	2	6,138		140	859.3	196	1,201.5
September	3	5,180		78	404.0	149	772.3
September	4	3,865		86	332.4	186	717.9
September	5	4,067		70	284.7	202	821.7
September	6	3,659		88	322.0	249	911.1
September	7	3,714		92	341.7	272	1,010.2
September	8	3,736		128	478.2	365	1,363.6
September	9	3475		144	500.4	433	1,504.7
September	10	3,342		78	260.7	368	1,229.9
September	11	3,104	**	71	220.4	428	1,328.5
September	12	2,876	*	452	1,300.0	60	172.6
September	13	3,146		182	572.6	489	1,538.4
September	14	3,023		212	640.9	620	1,872.7
September	15	3,500		198	693.0	705	2,467.5
September	16	3,893		116	451.6	574	2,234.6
September	17	4,305		80	344.4	372	1,601.5
September	18	3,838	**	71	272.5	428	1,642.7
September	19	3,399	**	452	1,536.3	324	1,101.3
September	20	4,385		560	2,455.6	551	2,416.1
September	21	3,381		172	581.5	457	1,545.1
September	22	3,942		218	859.4	665	2,621.4
September	23	3,881		254	985.8	481	1,866.8
September	24	3,117		76	236.9	449	1,398.0
September	25	4,470		86	384.4	463	2,069.6
September	26	3,991		156	622.6	512	2,041.4
September	27	3,564		180	641.5	642	2,288.1
September	28	4,719		144	679.5	474	2,236.8
September	29	5,794		130	753.2	454	2,630.5
September	30	6,081		110	668.9	234	1,423.0
TOTALS		122,367			19,945.8		48,192.9

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		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	6,481		172	1,114.7	205	1,328.6
October	2	4,299		126	541.7	204	876.8
October	3	5,198		92	478.2	177	921.3
October	4	3,874		80	309.9	208	805.8
October	5	3,320		100	332.0	308	1,022.6
October	6	3,096		152	470.6	327	1,012.4
October	7	3,406		300	1,021.8	303	1,032.0
October	8	3,063		82	251.2	327	1,001.6
October	9	3296		46	151.6	269	886.6
October	10	3,037		88	267.3	375	1,138.9
October	11	2,060		164	337.8	465	956.9
October	12	5,389		106	571.2	475	2,557.1
October	13	3,936	*	101	397.5	299	1,176.9
October	14	3,719		12	44.6	365	1,357.4
October	15	4,992	*	101	504.2	299	1,492.6
October	16	4,689	*	101	473.6	299	1,402.0
October	17	4,546	*	101	459.1	299	1,359.3
October	18	3,533		128	452.2	307	1,084.6
October	19	3,776		136	513.5	357	1,348.0
October	20	4,593		108	496.0	342	1,570.8
October	21	3,650		98	357.7	419	1,529.4
October	22	4,239		56	237.4	317	1,343.8
October	23	4,852		60	291.1	246	1,193.6
October	24	5,231		84	439.4	258	1,349.6
October	25	4,961		160	793.8	431	2,138.2
October	26	4,925		36	177.3	190	935.8
October	27	5,205		72	374.8	234	1,218.0
October	28	4,770		80	381.6	212	1,011.2
October	29	3,237		66	213.6	186	602.1
October	30	3,054		56	171.0	267	815.4
October	31	2,883		66	190.3	313	902.4
TOTALS		127,310			12,816.9		37,371.5
				100.968		299.425806	

* BOD and TSS data estimated.

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		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	4343	102	443	342	1,485
November	2	4342	80	347	313	1,359
November	3	1779	98	174	432	769
November	4	1981	64	127	417	826
November	5	2674	42	112	454	1,214
November	6	3088	42	130	383	1,183
November	7	4215 **	84	354	449	1,893
November	8	4214 **	98	413	401	1,690
November	9	4151	275	1,142	369	1,532
November	10	4426	68	301	206	912
November	11	3972	54	214	315	1,251
November	12	5604	64	359	211	1,182
November	13	2330	46	107	273	636
November	14	2431	74	180	293	712
November	15	2071	32	66	216	447
November	16	2520	52	131	249	627
November	17	2773	52	144	381	1,057
November	18	2298	70	161	375	862
November	19	2413	60	145	382	922
November	20	2675	38	102	362	968
November	21	2716	72	196	391	1,062
November	22	2704	70	189	391	1,057
November	23	2794	72	201	396	1,106
November	24	4246	52	221	391	1,660
November	25	3494	64	224	335	1,170
November	26	3774	54	204	197	743
November	27	3487	80	279	240	837
November	28	3451	112	387	303	1,046
November	29	3522	160	564	257	905
November	30	3681	88	324	222	817
November	31			0		0
TOTALS		98169		7939.141		31931.34
			77.3		331.533333	

* BOD and TSS data estimated.

** Two day total (8429) divided by 2

Billing Data for Month: December, 1994

Account Name	Attached Report	Flow	BOD (mg/L)	TSS (mg/L)	NH3 (mg/L)	REMARKS:
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
Georgia Pacific	X					
James River	X					
Upjohn	X					
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
Augusta	X					
Galesburg (quarterly)	X					Sent directly to Stockbridge
Gull Lake		15,671,316 gal				
Parchment		34,334 m3				
Portage	X					
Portage SW Int. (Irreg)	X					
Vicksburg		22,785 m3				
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
Cytec Industries	X					
Continental Linen		6,741 m3	309	426		
Diapers Unlimited		m3	109	122		
Kalamazoo Creamery	X					
Portage Paper	X					
Swift-Eckrich	X					
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
Checker Motors	X					Based on days
Hazelton Research		739,530 gal	2233	2500	630	
Hercules	X					
Kalsec		3,763,360 gal	933			
Prab Robots	X					
Upjohn Ag. Farm (Qtrly)		2751640 gal	377	482	18.2	
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
E.M. Sergeant	X					
Crystal Flash	X					
H M Holding	X					
Shell Oil		149,749 gal				
TNT/Holland Motor		No discharge				
Upjohn Downtown Dewaterin	X					No activity!!!
$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$$$
Clark Oil	X					
GM-BOC		475,686 gal				
Kalamazoo County	X					
Imperial Oil	X					
MDOT		0 gal				
Star Truck Rental	X					
Taplin Enterprises	X					
Lowder's Automotive	X	gal				
Cork Street Landfill						

Kristin: Please let me know where to add Roto-Rooter.

Thanks!

1995

1995

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	3,535	34	120.2	196	692.9
January	2	2,898	26	75.3	182	528.2
January	3	4,399	50	220.0	185	812.9
January	4	3,803	50	190.2	214	813.8
January	5	4,252	64	272.1	197	836.2
January	6	2,347	60	140.8	203	476.4
January	7	2,085	50	104.3	193	402.0
January	8	2,026	54	109.4	315	638.2
January	9	1845	70	129.2	323	595.9
January	10	2,847	58	165.1	427	1,215.7
January	11	2,126	148	314.6	457	970.5
January	12	2,677	72	192.7	309	827.2
January	13	3,265	66	215.5	348	1,136.2
January	14	3,255	48	156.2	261	849.6
January	15	3,093	40	123.7	231	714.5
January	16	2,389	58	138.6	234	559.0
January	17	2,067	42	86.8	60	124.0
January	18	3,293	64	210.8	315	1,037.3
January	19	2,655	72	191.2	300	796.5
January	20	3,131	50	156.6	282	882.9
January	21	3,429	34	116.6	265	908.7
January	22	2,800	60	168.0	221	618.8
January	23	3,375	82	276.8	297	1,002.4
January	24	3,700	26	96.2	221	817.7
January	25	4,257	82	349.1	272	1,157.9
January	26	3,892	58	225.7	215	836.8
January	27	3,546	86	305.0	245	868.8
January	28	2,930	62	181.7	226	662.2
January	29	2,528	66	166.8	60	151.7
January	30	4,675	86	402.1	205	958.4
January	31	5,428	46	249.7	144	783.3
TOTALS		98,548		5,850.7		23,676.4

* BOD and TSS data estimated.

Billing Data for Month: February, 1995

Account Name	Attached Report	Flow	BOD (mg/L)	TSS (mg/L)	NH3 (mg/L)	REMARKS:
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
Georgia Pacific	X					
James River	X					
Upjohn	X					
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
Augusta	X					
Galesburg (quarterly)	X					Sent directly to Stockbridge
Gull Lake		11,922,116 gal				
Parchment		37,021 m3				
Portage	X					
Portage SW Int. (Irreg)	X					
Vicksburg		19,202 m3				
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
Cytec Industries	X					
Continental Linen		5,504 m3	309	426		
Diapers Unlimited		m3	109	122		
Kalamazoo Creamery	X					
Portage Paper	X					
Swift-Eckrich	X					
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
Checker Motors	X					Based on days
Hazelton Research		698,630 gal	1168	1996	303	
Hercules	X					
Kalsec		4,093,850 gal	933			
Prab Robots	X					
Upjohn Ag. Farm (Qtrly)		2751640 gal	377	482	18.2	
Roto Rooter	X					
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
E.M. Sergeant	X					
Crystal Flash	X					
H M Holding	X					
Shell Oil		554,808 gal				
TNT/Holland Motor		No discharge				
Upjohn Downtown Dewaterin	X					No activity!!!
$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$	$$$$$$$$$$	$$$$$$$	$$$$$$$$$	$$$$$$$$$$$$$$$$$$$$$$$$
Clark Oil	X					
GM-BOC		518,021 gal				
Kalamazoo County	X					
Imperial Oil	X					
MDOT		0 gal				
Star Truck Rental	X					
Taplin Enterprises	X					
Lowder's Automotive	X	gal				
Kalamazoo Oil	X					
General Electric	X					
Cork Street Landfill						

LABORATORY COMMERCIAL SERVICES

A Division Of Consumers Power Company
135 W Trail Street
Jackson, Michigan 49201

ANALYTICAL REPORTS

Customer Name: John Peterson
LTI - Limno-Tech, Inc.
2395 Huron Parkway
Ann Arbor, MI 48104

From: HW Voigt (517-788-0392)
Laboratory Commercial Services
135 W Trail Street
Jackson, MI 49201

LCS Job Number: 519553-781-878 Report Date: 03-10-95

Site Location: Allied Paper
Project # LTI - JD7-2
Sample ID: As Indicated On Reports
Sample Type: Water Collected By: lti
Sample Date: 03-08-95 Received Date: 03-08-95
Analysis Date: 03-10-95 LCS Control Number:950736

RESULTS

Attached

METHODS

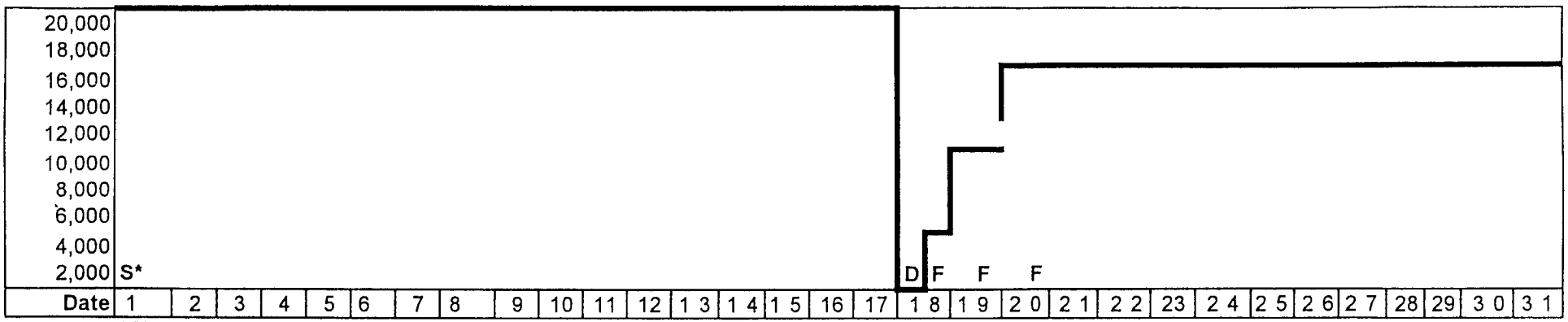
Polychlorinated Biphenyls (PCB) - Method 8080, Organochlorine Pesticides and PCB (PCB Only). SW-846, Test Methods For Evaluating Solid Waste - Physical / Chemical Methods, USEPA.

Approved By HW Voigt Date 03/10/95

Allied Treatment Plant Operation
April 1995

TANK A

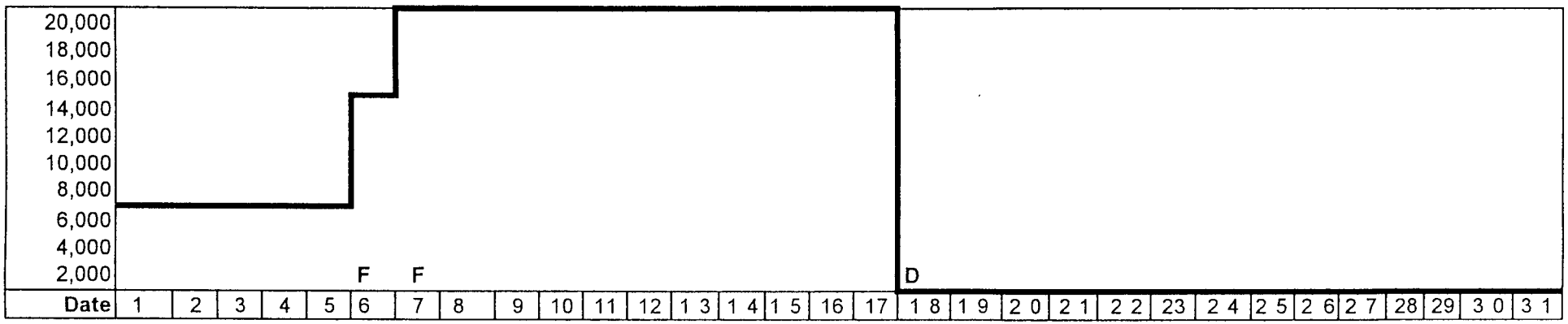
Gallons



* Tank A was sampled on March 8, 1995.

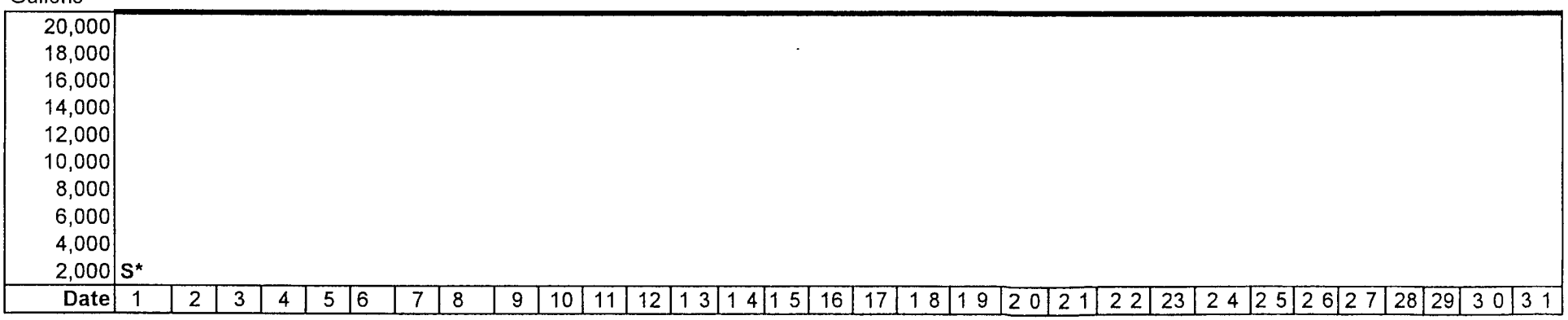
TANK B

Gallons



TANK C

Gallons



* Tank C was sampled on October 25, 1994

F = FILL D = DRAIN TO CITY S = SAMPLE DL = DRAIN TO LAGOON

1995

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	3,348	124	415.2	506	1,694.1
March	2	2,895	90	260.6	437	1,265.1
March	3	4,510	74	333.7	339	1,528.9
March	4	6,115	62	379.1	198	1,210.8
March	5	4,422	52	229.9	173	765.4
March	6	6,330	56	354.5	118	748.2
March	7	5,445	38	206.9	60	326.7
March	8	3,250	64	208.0	60	195.0
March	9	3121	74	231.0	60	187.3
March	10	3,077	86	264.6	60	184.6
March	11	2,218	84	186.3	60	133.1
March	12	2,542	66	167.8	274	696.5
March	13	3,263	68	221.9	305	995.2
March	14	3,173	58	184.0	281	891.6
March	15	3,696	62	229.2	355	1,312.1
March	16	3,130	122	381.9	382	1,195.7
March	17	3,219	76	244.6	272	875.6
March	18	2,103	52	109.4	60	126.2
March	19	2,085	62	129.3	345	719.3
March	20	2,949	30	88.5	451	1,330.0
March	21	2,193	204	447.4	341	747.8
March	22	1,713	68	116.5	329	563.6
March	23	1,936	32	62.0	245	474.3
March	24	2,122	62	131.6	324	687.5
March	25	2,657	54	143.5	244	648.3
March	26	2,285	48	109.7	508	1,159.6
March	27	2,760	58	160.1	266	734.2
March	28	5,232	310	1,621.9	233	1,219.1
March	29	5,200	190	988.0	203	1,054.6
March	30	5,941	96	570.3	183	1,086.6
March	31	6,780	1,422	9,640.5	60	406.8
TOTALS		109,710		18,817.7		25,163.7

1995

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	3908	162	633.1	171	669.4
April	2	805	44	35.4	207	166.4
April	3	1583	44	69.7	175	277.0
April	4	1695	46	78.0	195	330.5
April	5	1792	30	53.8	191	342.3
April	6	1972	76	149.9	278	548.2
April	7	1985	36	71.5	351	696.7
April	8	1794	54	96.9	398	714.0
April	9	1729	108	186.7	473	817.8
April	10	2087	38	79.3	358	747.1
April	11	1481	54	80.0	531	786.4
April	12	1757	32	56.2	60	105.4
April	13	1878	122	229.1	589	1,106.1
April	14	1351	94	127.0	481	649.8
April	15	1773	50	88.7	560	992.9
April	16	1645	64	105.3	514	845.5
April	17	1956	68	133.0	542	1,060.2
April	18	1812	54	97.8	538	974.0
April	19	1776	58	103.0	591	1,049.6
April	20	1710	66	112.9	553	945.6
April	21	1909	124	236.7	519	990.8
April	22	1883	44	82.9	484	911.4
April	23	1717	52	89.3	506	868.8
April	24	1634	82	134.0	607	991.0
April	25	1776	94	166.9	606	1,076.3
April	26	1640	112	183.7	605	991.4
April	27	1642	278	456.5	612	1,004.1
April	28	2448	130	318.2	842	2,060.0
April	29	1654	82	135.6	446	737.7
April	30	1696	36	61.1	529	897.2
April	31			0.0		0.0
TOTALS		54,488		4,452.0		24,353.7

1995

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	1800	60.00	108.0	477.00	858.6
May	2	1233	60.00	74.0	543.50	670.1
May	3	1698	46.00	78.1	527.50	895.7
May	4	2804	346.00	970.2	540.00	1,514.2
May	5	1577	38.00	59.9	491.00	774.3
May	6	1657	50.00	82.9	530.00	878.2
May	7	1638	56.00	91.7	555.00	909.1
May	8	1730	38.00	65.7	581.00	1,005.1
May	9	1701	58.00	98.7	616.50	1,048.7
May	10	1722	50.00	86.1	541.00	931.6
May	11	2173	40.00	86.9	549.00	1,193.0
May	12	2821	58.00	163.6	468.00	1,320.2
May	13	1948	52.00	101.3	404.00	787.0
May	14	2103	50.00	105.2	402.00	845.4
May	15	2262	44.00	99.5	420.00	950.0
May	16	2090	86.00	179.7	424.00	886.2
May	17	2020	78.00	157.6	406.00	820.1
May	18	2230	62.00	138.3	430.00	958.9
May	19	2010	50.00	100.5	412.00	828.1
May	20	2596	48.00	124.6	397.00	1,030.6
May	21	2558	68.00	173.9	397.00	1,015.5
May	22	2431	102.00	248.0	509.00	1,237.4
May	23	2113	94.00	198.6	774.00	1,635.5
May	24	2388	68.00	162.4	879.00	2,099.1
May	25	2577	58.00	149.5	721.50	1,859.3
May	26	2741	98.00	268.6	570.00	1,562.4
May	27	2461	62.00	152.6	604.00	1,486.4
May	28	1549	58.00	89.8	604.00	935.6
May	29	1575	48.00	75.6	668.00	1,052.1
May	30	1709	70.00	119.6	611.50	1,045.1
May	31	1,901	120.00	228.1	471.00	895.4
TOTALS		63,816		4,839.2		33,928.8

1995

PORTAGE PAPER

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	2708		106.00	287.0	578.50	1,566.6
June	2	3303		84.00	277.5	657.50	2,171.7
June	3	2110		100.00	211.0	566.00	1,194.3
June	4	2650		66.00	174.9	641.50	1,700.0
June	5	6219		60.00	373.1	525.00	3,265.0
June	6	3241		84.00	272.2	349.00	1,131.1
June	7	2007		56.00	112.4	472.00	947.3
June	8	2490		80.00	199.2	598.00	1,489.0
June	9	2572		62.00	159.5	590.00	1,517.5
June	10	3209		80.00	256.7	612.00	1,963.9
June	11	3665		122.00	447.1	545.00	1,997.4
June	12	3280		104.00	341.1	598.00	1,961.4
June	13	2718		170.00	462.1	495.00	1,345.4
June	14	2445		122.00	298.3	495.00	1,210.3
June	15	2340		142.00	332.3	535.50	1,253.1
June	16	1517	*	155.00	235.1	497.00	753.9
June	17	1088	*	155.00	168.6	497.00	540.7
June	18	238	*	155.00	36.9	497.00	118.3
June	19	0		0.00	0.0	0.00	0.0
June	20	0		0.00	0.0	0.00	0.0
June	21	0		0.00	0.0	0.00	0.0
June	22	900		1312.00	1,180.8	302.00	271.8
June	23	50		120.00	6.0	900.00	45.0
June	24	22		313.02	6.9	1569.00	34.5
June	25	50		122.00	6.1	362.00	18.1
June	26	983		222.00	218.2	425.00	417.8
June	27	4408		122.00	537.8	257.00	1,132.9
June	28	2202		164.00	361.1	358.00	788.3
June	29	1615		158.00	255.2	489.00	789.7
June	30	2500		220.00	550.0	505.00	1,262.5
TOTALS		60,530			7,767.2		30,887.5
				155.20		497.20	

*BOD and TSS data estimated

1995

PORTAGE PAPER

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	1874	260.00	487.2	584.00	1,094.4
July	2	2190	240.00	525.6	690.00	1,511.1
July	3	2079	172.00	357.6	789.00	1,640.3
July	4	1646	118.00	194.2	672.00	1,106.1
July	5	1937	248.00	480.4	672.00	1,301.7
July	6	2200	102.00	224.4	912.00	2,006.4
July	7	1581	208.00	328.8	680.50	1,075.9
July	8	2130	186.00	396.2	744.00	1,584.7
July	9	2135	270.00	576.5	957.00	2,043.2
July	10	2416	304.00	734.5	1074.00	2,594.8
July	11	1885	282.00	531.6	756.00	1,425.1
July	12	2204	628.00	1,384.1	798.00	1,758.8
July	13	2102	174.00	365.7	1179.00	2,478.3
July	14	2550	98.00	249.9	807.00	2,057.9
July	15	2000	40.00	80.0	681.00	1,362.0
July	16	2071	66.00	136.7	807.00	1,671.3
July	17	2074	62.00	128.6	771.00	1,599.1
July	18	1430	40.00	57.2	687.00	982.4
July	19	1708	56.00	95.6	814.50	1,391.2
July	20	2760	94.00	259.4	570.00	1,573.2
July	21	3461	76.00	263.0	801.00	2,772.3
July	22	3568	62.00	221.2	547.50	1,953.5
July	23	3534	262.00	925.9	484.00	1,710.5
July	24	2211	316.00	698.7	641.50	1,418.4
July	25	2825	148.00	418.1	575.00	1,624.4
July	26	2552	596.00	1,521.0	699.50	1,785.1
July	27	2905	102.00	296.3	546.00	1,586.1
July	28	1960	88.00	172.5	526.00	1,031.0
July	29	993	50.00	49.7	480.00	476.6
July	30	2111	58.00	122.4	564.00	1,190.6
July	31	1504	76.00	114.3	565.00	849.8
TOTALS		68,596		12,397.4		48,655.8
			176.84		712.08	

*BOD and TSS data estimated

Industry Location: POP

August 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
08/01/95	1,105.00	681.23	616.50	86.19	78.00
08/02/95	1,370.00	1,097.37	801.00	106.86	78.00
08/03/95	3,190.00	1,987.37	623.00	484.88	152.00
08/04/95	1,313.00	767.45	584.50	409.66	312.00
08/05/95	2,246.00	1,239.79	552.00	1,212.84	540.00
08/06/95	1,486.00	802.44	540.00	650.87	438.00
08/07/95	2,634.00	1,251.15	475.00	168.58	64.00
08/08/95	2,634.00	1,232.71	468.00	379.30	144.00
08/09/95	2,634.00	1,029.89	391.00	279.20	106.00
08/10/95	2,634.00	1,082.57	411.00	511.00	194.00
08/11/95	2,634.00	1,108.91	421.00	205.45	78.00
08/12/95	2,634.00	1,069.40	406.00	416.17	158.00
08/13/95	2,634.00	1,072.04	407.00	570.13	216.45
08/14/95	2,634.00	1,029.89	391.00	389.83	148.00
08/15/95	3,450.00	1,781.93	516.50	289.80	84.00
08/16/95	3,358.00	1,400.29	417.00	295.50	88.00
08/17/95	3,032.00	1,246.15	411.00	278.94	92.00
08/18/95	3,047.00	1,346.77	442.00	292.51	96.00
08/19/95	2,858.00	1,594.76	558.00	245.79	86.00
08/20/95	99.00	50.98	514.96	14.01	141.50
08/21/95	100.00	51.50	514.96	14.15	141.50
08/22/95	1,384.00	734.90	531.00	85.81	62.00
08/23/95	1,460.00	775.26	531.00	78.84	54.00
08/24/95	3,386.00	2,173.81	642.00	331.83	98.00
08/25/95	2,325.00	1,295.03	557.00	139.50	60.00
08/26/95	2,277.00	997.33	438.00	145.73	64.00
08/27/95	3,855.00	2,259.03	586.00	354.66	92.00
08/28/95	3,855.00	1,985.17	514.96	545.48	141.50
08/29/95	3,030.00	1,742.25	575.00	278.76	92.00
08/30/95	3,692.00	2,261.35	612.50	539.03	146.00
08/31/95	3,398.00	1,749.83	514.96	480.82	141.50

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	76,388.00	38,898.57	15,963.84	10,282.11	4,386.45

Note: Flow estimated at average daily flow for the month for: 8/7 - 8/14
Flow on 8/27 and 8/28 is average of 2-day flow
Flow on 8/20 and 8/21 is average of 2-day flow
CBOD and TSS data estimated for 8/20, 8/21, and 8/31

Industry Location: POP

September 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
09/01/95	3,569.00	1,284.84	360.00	228.42	64.00
09/02/95	1,170.00	416.52	356.00	88.92	76.00
09/03/95	2,271.00	1,246.78	549.00	208.93	92.00
09/04/95	3,358.00	1,897.27	565.00	396.24	118.00
09/05/95	3,770.00	1,319.50	350.00	248.82	66.00
09/06/95	3,120.00	1,067.04	342.00	293.28	94.00
09/07/95	3,120.00	1,294.80	415.00	199.68	64.00
09/08/95	2,749.00	1,390.99	506.00	241.91	88.00
09/09/95	2,599.00	1,562.00	601.00	1,559.40	600.00
09/10/95	1,791.00	1,095.20	611.50	247.16	138.00
09/11/95	2,094.00	1,457.42	696.00	314.10	150.00
09/12/95	1,886.00	1,499.37	795.00	490.36	260.00
09/13/95	1,711.00	1,170.32	684.00	297.71	174.00
09/14/95	1,693.00	1,417.04	837.00	277.65	164.00
09/15/95	2,442.00	1,582.42	648.00	805.86	330.00
09/16/95	1,778.00	1,198.37	674.00	270.26	152.00
09/17/95	1,726.00	1,108.96	642.50	134.63	78.00
09/18/95	2,420.00	1,570.58	649.00	198.44	82.00
09/19/95	277.00	177.97	642.50	12.19	44.00
09/20/95	837.00	542.38	648.00	50.22	60.00
09/21/95	858.00	427.71	498.50	44.62	52.00
09/22/95	2,006.00	952.85	475.00	152.46	76.00
09/23/95	1,610.00	833.18	517.50	96.60	60.00
09/24/95	1,825.00	1,019.26	558.50	127.75	70.00
09/25/95	1,982.00	1,230.82	621.00	158.56	80.00
09/26/95	1,409.00	866.54	615.00	250.80	178.00
09/27/95	2,057.00	1,415.22	688.00	234.50	114.00
09/28/95	3,802.00	3,239.30	852.00	1,606.35	422.50
09/29/95	3,730.00	2,752.74	738.00	10,279.88	2,756.00
09/30/95	3,878.50	2,291.65	590.86	896.40	231.12

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	67,538.50	39,329.04	17,725.86	20,412.09	6,933.62

Note: Data estimated for 9/30/95
Flow on 9/30/95 is average of 2 day flow (10/1/95)

Industry Location: POP

October 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
10/01/95	3,878.50	1,252.76	323.00	8,925.01	2,301.15
10/02/95	2,469.00	908.59	368.00	241.96	98.00
10/03/95	1,510.00	628.16	416.00	1,389.20	920.00
10/04/95	2,508.00	1,487.24	593.00	4,700.67	1,874.27
10/05/95	2,481.00	1,643.66	662.50	535.90	216.00
10/06/95	3,570.00	3,127.32	876.00	7,996.80	2,240.00
10/07/95	3,250.00	1,668.88	513.50	1,267.50	390.00
10/08/95	4,000.00	2,054.00	513.50	1,792.00	448.00
10/09/95	3,730.00	2,155.94	578.00	1,193.60	320.00
10/10/95	2,406.00	1,292.02	537.00	962.40	400.00
10/11/95	3,313.00	2,052.04	619.39	4,683.52	1,413.68
10/12/95	3,110.00	1,702.73	547.50	4,509.50	1,450.00
10/13/95	3,817.00	2,097.44	549.50	1,488.63	390.00
10/14/95	3,555.00	1,514.43	426.00	906.53	255.00
10/15/95	4,447.00	1,881.08	423.00	213.46	48.00
10/16/95	3,203.00	1,639.94	512.00	3,411.20	1,065.00
10/17/95	3,208.00	1,584.75	494.00	1,828.56	570.00
10/18/95	2,928.00	2,001.29	683.50	6,763.68	2,310.00
10/19/95	2,135.00	2,863.04	1,341.00	15,692.25	7,350.00
10/20/95	2,626.00	5,420.06	2,064.00	36,632.70	13,950.00
10/21/95	3,000.00	1,590.00	530.00	840.00	280.00
10/22/95	3,783.00	2,004.99	530.00	575.02	152.00
10/23/95	3,098.00	1,803.04	582.00	396.54	128.00
10/24/95	4,027.00	1,973.23	490.00	1,208.10	300.00
10/25/95	4,348.00	2,152.26	495.00	695.68	160.00
10/26/95	4,227.00	2,009.94	475.50	811.58	192.00
10/27/95	4,362.00	2,617.20	600.00	523.44	120.00
10/28/95	4,554.00	2,820.70	619.39	6,437.90	1,413.68
10/29/95	4,872.00	3,017.67	619.39	6,887.45	1,413.68
10/30/95	3,570.00	2,211.22	619.39	5,046.84	1,413.68
10/31/95	3,336.00	2,001.60	600.00	807.31	242.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	105,321.50	63,177.21	19,201.06	129,364.92	43,824.14

Note: CBOD and TSS data is monthly average for 10/11/95, 10/28/95, 10/29/95, and 10/30/95

Industry Location: POP

November 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
11/01/95	4,032.00	2,479.68	615.00	6,128.64	1,520.00
11/02/95	3,792.00	1,645.73	434.00	883.92	233.10
11/03/95	3,080.00	1,327.48	431.00	197.12	64.00
11/04/95	3,080.00	1,458.38	473.50	348.72	113.22
11/05/95	4,130.00	2,345.84	568.00	440.09	106.56
11/06/95	1,777.00	728.57	410.00	362.51	204.00
11/07/95	1,539.00	583.28	379.00	116.96	76.00
11/08/95	1,741.00	752.23	432.07	396.86	227.95
11/09/95	1,753.00	760.80	434.00	56.10	32.00
11/10/95	1,337.00	750.73	561.50	48.13	36.00
11/11/95	3,085.50	1,194.09	387.00	160.45	52.00
11/12/95	3,085.50	1,320.59	428.00	345.58	112.00
11/13/95	2,374.00	1,204.81	507.50	132.94	56.00
11/14/95	2,067.00	926.02	448.00	190.16	92.00
11/15/95	2,552.00	1,458.47	571.50	296.03	116.00
11/16/95	3,222.00	1,899.37	589.50	438.19	136.00
11/17/95	3,970.00	1,869.87	471.00	754.30	190.00
11/18/95	2,888.00	1,464.22	507.00	403.92	139.86
11/19/95	4,816.00	1,815.63	377.00	366.02	76.00
11/20/95	5,329.00	1,449.49	272.00	1,065.80	200.00
11/21/95	3,664.00	1,425.30	389.00	483.65	132.00
11/22/95	3,637.00	1,062.00	292.00	967.44	266.00
11/23/95	3,078.00	784.89	255.00	1,551.31	504.00
11/24/95	3,673.00	1,256.17	342.00	1,131.28	308.00
11/25/95	2,950.00	1,323.08	448.50	678.50	230.00
11/26/95	3,000.00	1,062.00	354.00	858.00	286.00
11/27/95	3,270.00	1,249.14	382.00	712.86	218.00
11/28/95	2,096.00	905.62	432.07	477.78	227.95
11/29/95	2,096.00	905.62	432.07	477.78	227.95
11/30/95	2,096.00	710.54	339.00	1,374.98	656.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	89,210.00	38,119.62	12,962.21	21,846.02	6,838.59

Note: Data from 11/8/95, 11/28/95, and 11/29/95 is monthly average.

Industry Location: POP

December 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
12/01/95	1,653.00	563.67	341.00	132.24	80.00
12/02/95	2,397.00	1,016.33	424.00	930.04	388.00
12/03/95	1,663.00	2,324.87	1,398.00	898.02	540.00
12/04/95	1,831.00	878.88	480.00	69.58	38.00
12/05/95	2,733.00	1,413.81	517.31	752.42	275.31
12/06/95	2,975.00	1,689.80	568.00	273.70	92.00
12/07/95	2,532.00	1,278.66	505.00	121.54	48.00
12/08/95	2,745.00	1,166.63	425.00	98.82	36.00
12/09/95	2,745.00	1,420.02	517.31	755.73	275.31
12/10/95	1,861.00	1,428.32	767.50	512.35	275.31
12/11/95	2,679.00	1,385.87	517.31	737.56	275.31
12/12/95	3,687.00	1,850.87	502.00	3,981.96	1,080.00
12/13/95	2,561.00	1,206.23	471.00	1,101.23	430.00
12/14/95	3,225.00	1,630.24	505.50	1,225.50	380.00
12/15/95	2,722.00	1,061.58	390.00	1,415.44	520.00
12/16/95	3,048.00	1,441.70	473.00	1,097.28	360.00
12/17/95	3,113.00	1,444.43	464.00	348.66	112.00
12/18/95	2,666.00	1,480.96	555.50	330.58	124.00
12/19/95	2,646.00	1,633.91	617.50	1,428.84	540.00
12/20/95	2,846.00	1,757.41	617.50	580.58	204.00
12/21/95	2,211.00	1,664.88	753.00	2,608.98	1,180.00
12/22/95	2,102.00	1,087.39	517.31	578.70	275.31
12/23/95	2,016.00	991.87	492.00	161.28	80.00
12/24/95	2,176.00	1,183.74	544.00	1,000.96	460.00
12/25/95	3,049.00	2,009.29	659.00	243.92	80.00
12/26/95	3,270.00	1,350.51	413.00	170.04	52.00
12/27/95	3,824.00	783.92	205.00	275.33	72.00
12/28/95	3,017.00	772.35	256.00	446.52	148.00
12/29/95	1,984.00	680.51	343.00	71.42	36.00
12/30/95	2,060.00	782.80	380.00	82.40	40.00
12/31/95	1,840.00	769.12	418.00	69.92	38.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	79,877.00	40,150.58	16,036.74	22,501.53	8,534.55

Flowdate	Comment
12/5/95	Data is monthly average.
12/8/95	Flow data is 2 day average.
12/9/95	Data is monthly average; flow data is 2 day average.
12/10/95	Data is monthly average.
12/11/95	Data is monthly average.
12/22/95	Data is monthly average.

1996

Industry Location: POP

January 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
01/01/96	2,813.00	1,457.13	518.00	360.06	128.00
01/02/96	2,973.00	1,431.50	481.50	1,165.42	392.00
01/03/96	4,082.00	754.35	184.80	897.14	219.78
01/04/96	1,952.00	802.27	411.00	124.93	64.00
01/05/96	2,286.00	1,104.14	483.00	292.61	128.00
01/06/96	3,757.00	1,360.03	362.00	330.62	88.00
01/07/96	3,309.50	1,181.49	357.00	244.90	74.00
01/08/96	3,309.50	1,679.57	507.50	573.07	173.16
01/09/96	3,426.00	1,728.42	504.50	1,083.82	316.35
01/10/96	2,748.00	1,618.57	589.00	2,225.88	810.00
01/11/96	4,007.00	1,923.36	480.00	681.19	170.00
01/12/96	3,892.00	1,342.74	345.00	762.83	196.00
01/13/96	4,433.00	1,445.16	326.00	1,207.99	272.50
01/14/96	3,130.00	929.61	297.00	306.74	98.00
01/15/96	3,439.00	1,169.26	340.00	591.51	172.00
01/16/96	4,392.00	1,638.22	373.00	1,447.91	329.67
01/17/96	3,333.00	1,269.87	381.00	799.92	240.00
01/18/96	3,892.00	1,934.32	497.00	3,888.11	999.00
01/19/96	3,542.00	1,466.39	414.00	623.39	176.00
01/20/96	979.00	280.97	287.00	115.52	118.00
01/21/96	979.00	320.13	327.00	113.56	116.00
01/22/96	979.00	401.03	409.63	193.21	197.35
01/23/96	3,462.00	1,177.08	340.00	263.11	76.00
01/24/96	3,798.00	1,321.70	348.00	455.76	120.00
01/25/96	2,296.00	799.01	348.00	252.56	110.00
01/26/96	1,970.00	715.11	363.00	118.20	60.00
01/27/96	2,501.00	1,125.45	450.00	100.04	40.00
01/28/96	1,608.00	931.84	579.50	99.70	62.00
01/29/96	1,219.00	658.87	540.50	70.70	58.00
01/30/96	1,320.00	750.42	568.50	84.48	64.00
01/31/96	1,320.00	377.52	286.00	66.00	50.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	87,147.00	35,095.54	12,698.43	19,540.88	6,117.81

Flowdate	Comment
1/10/96	Analysis of Grab sample
1/21/96	Analysis of Grab sample
1/22/96	Data is monthly average
1/23/96	Analysis of Grab sample
1/31/96	Analysis of Grab sample

Industry Location: POP

February 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
02/01/96	1,755.40	786.42	448.00	52.66	30.00
02/02/96	1,755.00	915.23	521.50	56.16	32.00
02/03/96	1,755.00	1,028.43	586.00	80.73	46.00
02/04/96	1,755.00	942.44	537.00	70.20	40.00
02/05/96	1,755.00	851.18	485.00	91.26	52.00
02/06/96	2,896.00	1,563.84	540.00	196.93	68.00
02/07/96	1,707.60	801.72	469.50	112.70	66.00
02/08/96	1,301.00	465.76	358.00	72.86	56.00
02/09/96	1,550.00	477.40	308.00	99.20	64.00
02/10/96	1,925.00	494.73	257.00	65.45	34.00
02/11/96	1,627.00	637.78	392.00	52.06	32.00
02/12/96	1,705.00	771.51	452.50	75.02	44.00
02/13/96	2,410.00	1,385.75	575.00	144.60	60.00
02/14/96	1,025.00	612.95	598.00	41.00	40.00
02/15/96	1,707.60	916.98	537.00	68.30	40.00
02/16/96	3,233.00	193.98	60.00	1,150.95	356.00
02/17/96	1,263.00	579.63	458.93	97.01	76.81
02/18/96	1,177.00	540.16	458.93	90.41	76.81
02/19/96	2,060.00	982.62	477.00	572.68	278.00
02/20/96	2,165.00	2,851.31	1,317.00	874.66	404.00
02/21/96	2,283.00	846.99	371.00	73.06	32.00
02/22/96	1,716.00	571.43	333.00	82.37	48.00
02/23/96	1,643.00	726.21	442.00	95.29	58.00
02/24/96	1,534.00	625.87	408.00	52.16	34.00
02/25/96	1,638.00	645.37	394.00	65.52	40.00
02/26/96	1,460.00	625.61	428.50	40.88	28.00
02/27/96	2,291.00	946.18	413.00	54.98	24.00
02/28/96	1,999.00	691.65	346.00	47.98	24.00
02/29/96	1,844.00	621.43	337.00	81.14	44.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	52,935.60	24,100.55	13,308.86	4,658.21	2,227.62

Flowdate	Comment
2/17/96	Data is monthly average.
2/18/96	Data is monthly average.

Industry Location: POP

March 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
03/01/96	1,397.00	621.67	445.00	835.41	598.00
03/02/96	1,721.00	738.31	429.00	61.96	36.00
03/03/96	1,907.00	747.54	392.00	76.28	40.00
03/04/96	2,211.00	1,086.71	491.50	331.65	150.00
03/05/96	4,304.00	1,579.57	367.00	1,652.74	384.00
03/06/96	3,518.00	1,164.46	331.00	1,920.83	546.00
03/07/96	2,308.00	641.62	278.00	267.73	116.00
03/08/96	2,710.00	2,642.25	975.00	1,869.90	690.00
03/09/96	1,850.00	482.85	261.00	70.30	38.00
03/10/96	2,180.00	719.40	330.00	56.68	26.00
03/11/96	2,061.00	758.45	368.00	103.05	50.00
03/12/96	1,919.00	594.89	310.00	69.08	36.00
03/13/96	1,570.00	634.28	404.00	81.64	52.00
03/14/96	898.00	382.55	426.00	46.70	52.00
03/15/96	430.00	203.82	474.00	27.52	64.00
03/16/96	1,492.00	484.90	325.00	98.47	66.00
03/17/96	1,013.00	313.02	309.00	54.70	54.00
03/18/96	1,181.00	395.64	335.00	54.33	46.00
03/19/96	1,413.00	534.11	378.00	59.35	42.00
03/20/96	1,005.00	401.00	399.00	44.22	44.00
03/21/96	1,433.00	661.33	461.50	83.11	58.00
03/22/96	1,700.00	816.00	480.00	115.60	68.00
03/23/96	1,286.00	688.65	535.50	77.16	60.00
03/24/96	1,540.00	810.81	526.50	83.16	54.00
03/25/96	1,392.00	602.74	433.00	77.95	56.00
03/26/96	1,701.00	1,018.05	598.50	95.26	56.00
03/27/96	1,675.00	871.00	520.00	130.65	78.00
03/28/96	1,458.00	673.60	462.00	110.81	76.00
03/29/96	1,326.00	671.62	506.50	318.24	240.00
03/30/96	1,596.00	825.93	517.50	296.86	186.00
03/31/96	1,525.00	811.30	532.00	118.95	78.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	53,720.00	23,578.04	13,600.50	9,290.27	4,140.00

Flowdate	Comment

Industry Location: POP

April 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
04/01/96	1,460.00	762.12	522.00	75.92	52.00
04/02/96	980.00	572.81	584.50	68.60	70.00
04/03/96	980.00	479.22	489.00	60.76	62.00
04/04/96	980.00	468.44	478.00	45.08	46.00
04/05/96	1,816.00	957.03	527.00	108.96	60.00
04/06/96	1,816.00	950.68	523.50	108.96	60.00
04/07/96	1,816.00	1,036.03	570.50	98.06	54.00
04/08/96	1,816.00	916.17	504.50	119.86	66.00
04/09/96	1,816.00	979.73	539.50	130.75	72.00
04/10/96	1,816.00	1,073.26	591.00	134.38	74.00
04/11/96	1,887.00	1,104.84	585.50	192.47	102.00
04/12/96	1,805.00	1,129.03	625.50	310.46	172.00
04/13/96	1,895.00	1,064.99	562.00	197.08	104.00
04/14/96	1,719.00	1,150.01	669.00	116.89	68.00
04/15/96	1,699.00	1,072.07	631.00	81.55	48.00
04/16/96	2,116.00	1,345.78	636.00	694.05	328.00
04/17/96	1,592.00	939.28	590.00	149.65	94.00
04/18/96	1,644.00	808.03	491.50	121.66	74.00
04/19/96	1,436.00	738.10	514.00	255.61	178.00
04/20/96	1,795.00	1,007.89	561.50	168.73	94.00
04/21/96	1,530.00	927.18	606.00	91.80	60.00
04/22/96	1,699.00	900.47	530.00	91.75	54.00
04/23/96	1,447.00	898.59	621.00	75.24	52.00
04/24/96	1,374.00	781.12	568.50	129.16	94.00
04/25/96	1,277.00	796.85	624.00	140.47	110.00
04/26/96	1,471.00	822.29	559.00	203.00	138.00
04/27/96	1,155.00	773.85	670.00	145.53	126.00
04/28/96	1,358.00	851.47	627.00	143.95	106.00
04/29/96	1,321.00	727.87	551.00	142.67	108.00
04/30/96	1,344.00	678.05	504.50	99.46	74.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	46,860.00	26,713.23	17,056.50	4,502.50	2,800.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)				
Avg:	1,562.00	890.44	568.55	150.08	93.33				

Flowdate	Comment
	Dates 4/5 to 4/10 – avg from 4/11 to 4/18

Industry Location: POP

May 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
05/01/96	1,437.00	901.72	627.50	74.72	52.00
05/02/96	867.00	491.16	566.50	55.49	64.00
05/03/96	964.00	458.38	475.50	50.13	52.00
05/04/96	1,188.00	526.28	443.00	168.70	142.00
05/05/96	1,096.00	457.03	417.00	107.41	98.00
05/06/96	1,407.00	603.60	429.00	73.16	52.00
05/07/96	1,411.00	675.87	479.00	191.90	136.00
05/08/96	1,325.00	699.60	528.00	190.80	144.00
05/09/96	1,593.00	859.42	539.50	178.42	112.00
05/10/96	1,143.00	786.38	688.00	68.58	60.00
05/11/96	1,461.00	986.91	675.50	64.28	44.00
05/12/96	1,267.00	836.22	660.00	45.61	36.00
05/13/96	1,191.00	708.43	594.82	83.29	69.93
05/14/96	1,273.00	828.72	651.00	68.74	54.00
05/15/96	1,294.00	764.75	591.00	64.70	50.00
05/16/96	1,257.00	804.48	640.00	67.88	54.00
05/17/96	962.00	621.93	646.50	109.67	114.00
05/18/96	826.00	500.14	605.50	125.55	152.00
05/19/96	872.00	698.47	801.00	52.32	60.00
05/20/96	910.00	649.74	714.00	40.04	44.00
05/21/96	1,092.00	833.74	763.50	67.70	62.00
05/22/96	522.00	325.99	624.50	21.92	42.00
05/23/96	789.00	491.15	622.50	41.03	52.00
05/24/96	1,135.00	585.09	515.50	47.67	42.00
05/25/96	1,249.00	794.36	636.00	99.92	80.00
05/26/96	1,233.00	731.79	593.50	44.39	36.00
05/27/96	1,504.00	887.36	590.00	66.18	44.00
05/28/96	1,305.00	767.99	588.50	65.25	50.00
05/29/96	1,370.00	832.28	607.50	101.38	74.00
05/30/96	1,421.00	815.65	574.00	71.05	50.00
05/31/96	1,254.00	691.58	551.50	57.68	46.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	36,618.00	21,616.24	18,439.32	2,565.56	2,167.93

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	1,181.23	697.30	594.82	82.76	69.93			

Flowdate	Comment
5/13/1996	DATA IS MONTHLY AVG.

Industry Location: POP

June 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
06/01/96	1,650.00	1,022.18	619.50	221.10	134.00
06/02/96	1,251.00	744.35	595.00	90.07	72.00
06/03/96	1,551.00	797.21	514.00	99.26	64.00
06/04/96	1,214.00	940.85	775.00	148.11	122.00
06/05/96	1,448.00	910.79	629.00	173.76	120.00
06/06/96	1,281.00	918.48	717.00	56.36	44.00
06/07/96	1,416.00	885.00	625.00	150.10	106.00
06/08/96	1,542.00	983.03	637.50	114.11	74.00
06/09/96	1,909.00	1,249.44	654.50	187.08	98.00
06/10/96	1,472.00	899.39	611.00	120.70	82.00
06/11/96	1,699.00	985.42	580.00	186.89	110.00
06/12/96	1,606.00	891.33	555.00	115.63	72.00
06/13/96	1,551.00	889.50	573.50	117.88	76.00
06/14/96	1,577.00	1,191.42	755.50	82.00	52.00
06/15/96	1,511.00	877.89	581.00	114.84	76.00
06/16/96	1,564.00	260.80	166.75	143.89	92.00
06/17/96	1,780.00	1,020.83	573.50	249.20	140.00
06/18/96	1,627.00	97.62	60.00	117.14	72.00
06/19/96	1,622.00	987.80	609.00	100.56	62.00
06/20/96	1,328.00	640.10	482.00	71.71	54.00
06/21/96	1,487.00	845.36	568.50	104.09	70.00
06/22/96	1,686.00	957.65	568.00	145.00	86.00
06/23/96	1,510.00	822.20	544.50	108.72	72.00
06/24/96	1,610.00	853.30	530.00	93.38	58.00
06/25/96	1,460.00	807.38	553.00	78.84	54.00
06/26/96	1,683.00	967.73	575.00	104.35	62.00
06/27/96	1,531.00	822.15	537.00	94.92	62.00
06/28/96	1,537.00	866.10	563.50	95.29	62.00
06/29/96	1,284.00	762.05	593.50	82.18	64.00
06/30/96	1,534.00	768.53	501.00	122.72	80.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	45,921.00	25,665.86	16,847.75	3,689.89	2,392.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	1,530.70	855.53	561.59	123.00	79.73			

Flowdate	Comment

Industry Location: POP

July 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
07/01/96	1,605.00	935.72	583.00	125.19	78.00
07/02/96	1,445.00	752.85	521.00	80.92	56.00
07/03/96	1,192.00	624.61	524.00	61.98	52.00
07/04/96	1,581.00	811.84	513.50	91.70	58.00
07/05/96	1,398.00	692.01	495.00	69.90	50.00
07/06/96	1,300.00	658.45	506.50	93.60	72.00
07/07/96	1,209.00	607.52	502.50	101.56	84.00
07/08/96	1,520.00	734.16	483.00	170.24	112.00
07/09/96	1,374.00	618.30	450.00	46.72	34.00
07/10/96	1,166.00	725.84	622.50	67.63	58.00
07/11/96	1,753.00	1,043.91	595.50	84.14	48.00
07/12/96	1,410.00	740.96	525.50	95.18	67.50
07/13/96	976.00	493.37	505.50	175.68	180.00
07/14/96	1,555.00	930.67	598.50	202.15	130.00
07/15/96	1,450.00	1,167.25	805.00	149.68	103.23
07/16/96	1,455.00	862.82	593.00	64.02	44.00
07/17/96	1,382.00	977.77	707.50	77.39	56.00
07/18/96	1,009.00	662.41	656.50	78.70	78.00
07/19/96	1,190.00	762.20	640.50	76.16	64.00
07/20/96	985.00	616.61	626.00	59.10	60.00
07/21/96	1,303.00	856.07	657.00	41.70	32.00
07/22/96	914.00	655.80	717.50	78.60	86.00
07/23/96	1,541.00	963.90	625.50	172.59	112.00
07/24/96	1,534.00	956.45	623.50	144.20	94.00
07/25/96	1,911.00	1,269.86	664.50	187.28	98.00
07/26/96	1,342.00	836.74	623.50	112.73	84.00
07/27/96	1,236.00	812.05	657.00	163.15	132.00
07/28/96	1,246.00	822.98	660.50	112.14	90.00
07/29/96	1,835.00	1,222.11	666.00	165.15	90.00
07/30/96	1,896.00	1,378.39	727.00	189.60	100.00
07/31/96	2,382.00	1,615.00	678.00	152.45	64.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	44,095.00	26,808.57	18,754.50	3,491.22	2,466.73

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	1,422.42	864.79	604.98	112.62	79.57			

Flowdate	Comment

AUGUST REPORT FOR PORTAGE PAPER

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/96	3,046	568	1,730	98	299
08/02/96	2,560	600	1,536	80	205
08/03/96	1,498	426	638	270	404
08/04/96	1,581	496	784	188	297
08/05/96	1,547	540	835	90	139
08/06/96	3,380	529	1,787	102	345
08/07/96	1,384	347	480	80	111
08/08/96	1,987	409	813	205	407
08/09/96	1,512	424	641	88	133
08/10/96	1,744	650	1,134	180	314
08/11/96	1,950	670	1,306	152	296
08/12/96	1,688	818	1,380	90	152
08/13/96	1,931	987	1,906	1,940	3,746
08/14/96	1,931	630	1,217	150	289
08/15/96	1,931	612	1,182	315	608
08/16/96	1,931	687	1,326	520	1,004
08/17/96	1,931	613	1,183	587	1,133
08/18/96	1,931	722	1,393	376	727
08/19/96	1,931	576	1,112	188	363
08/20/96	1,931	600	1,158	200	386
08/21/96	1,931	532	1,027	250	483
08/22/96	1,931	524	1,011	200	386
08/23/96	1,931	557	1,075	210	405
08/24/96	1,931	424	819	670	1,294
08/25/96	1,931	504	973	365	705
08/26/96	1,931	531	1,024	445	859
08/27/96	1,707	524	894	355	606
08/28/96	1,804	512	923	258	465
08/29/96	1,784	553	986	326	581
08/30/96	2,026	531	1,076	156	316
08/31/96	1,627	359	584	110	179
	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	59,859	17,450	33,932	9,244	17,639
Monthly Avg	1,931	563	1,095	298	569
Comments:					

SEPTEMBER 1996

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/96	602	517	311	900	542
09/02/96	1,548	463	717	96	149
09/03/96	1,497	413	618	84	126
09/04/96	1,677	555	931	124	208
09/05/96	1,968	554	1,090	124	244
09/06/96	1,864	568	1,059	300	559
09/07/96	2,111	702	1,481	420	887
09/08/96	1,377	662	911	1,100	1,515
09/09/96	1,755	688	1,206	430	755
09/10/96	1,956	576	1,127	186	365
09/11/96	1,758	603	1,060	765	1,345
09/12/96	1,733	556	963	216	375
09/13/96	1,508	643	969	870	1,312
09/14/96	1,170	631	738	86	101
09/15/96	529	635	336	58	31
09/16/96	1,174	449	527	54	63
09/17/96	1,346	427	575	222	299
09/18/96	1,558	455	708	122	190
09/19/96	1,010	350	353	114	115
09/20/96	1,407	368	518	120	169
09/21/96	1,107	523	579	230	255
09/22/96	2,317	483	1,119	256	593
09/23/96	1,810	483	874	98	177
09/24/96	1,602	355	569	76	122
09/25/96	1,704	264	450	90	153
09/26/96	1,560	263	410	104	162
09/27/96	2,157	292	630	58	125
09/28/96	1,349	324	437	94	127
09/29/96	2,329	364	848	70	163
09/30/96	1,589	327	519	220	350

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	47,073	14,490	22,634	7,688	11,575
Monthly Avg	1,569	483	754	256	386
Comments:	9-22-96=DATA IS MONTHLY AVG.				

OCTOBER 1996

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/96	1,990	296	589	174	346
10/02/96	1,778	348	619	154	274
10/03/96	2,023	364	736	98	198
10/04/96	1,972	465	917	90	177
10/05/96	2,792	475	1,326	105	293
10/06/96	2,028	321	651	153	309
10/07/96	2,256	281	634	94	212
10/08/96	1,453	415	602	115	167
10/09/96	2,090	276	577	95	199
10/10/96	1,406	413	581	68	96
10/11/96	1,222	330	403	68	83
10/12/96	1,273	126	161	85	108
10/13/96	1,232	442	545	260	320
10/14/96	1,199	306	367	147	176
10/15/96	1,188	352	418	114	135
10/16/96	1,238	362	448	88	109
10/17/96	1,597	412	658	175	279
10/18/96	2,074	381	790	120	249
10/19/96	1,676	365	612	143	240
10/20/96	2,089	434	907	286	598
10/21/96	1,551	356	552	104	161
10/22/96	2,050	456	935	114	234
10/23/96	2,867	386	1,107	92	264
10/24/96	2,597	469	1,218	202	525
10/25/96	2,562	371	951	77	196
10/26/96	2,241	407	912	37	82
10/27/96	3,241	418	1,355	266	863
10/28/96	3,257	523	1,703	395	1,287
10/29/96	2,958	501	1,482	420	1,242
10/30/96	3,271	500	1,636	330	1,078
10/31/96	3,140	527	1,655	435	1,366

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	64,311	12,078	26,045	5,103	11,868
daily avg.	2,075	390	840	165	383
Comments:	Oct 3 is monthly avg for flow. due to lose of power.				

NOVEMBER 1996

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/96	3,135	380	1191	360	1127
11/02/96	2,817	351	989	1090	3071
11/03/96	3,351	405	1357	373	1250
11/04/96	2,293	382	876	655	1502
11/05/96	3,479	342	1190	607	2112
11/06/96	4,979	289	1439	345	1718
11/07/96	5,461	200	1094	153	833
11/08/96	4,607	225	1037	83	380
11/09/96	5,581	468	2612	527	2941
11/10/96	5,581	468	2612	527	2941
11/11/96	5,581	468	2612	527	2941
11/12/96	5,582	227	1267	330	1842
11/13/96	4,432	468	2074	527	2336
11/14/96	3,264	468	1528	527	1720
11/15/96	3,621	528	1912	270	978
11/16/96	3,435	617	2118	750	2576
11/17/96	3,140	442	1388	368	1157
11/18/96	2,672	487	1300	570	1523
11/19/96	2,422	532	1289	610	1477
11/20/96	2,181	613	1337	560	1221
11/21/96	2,031	794	1613	400	812
11/22/96	2 684	716	1922	870	2335
11/23/96	2,334	800	1867	470	1097
11/24/96	3,124	468	1462	630	1968
11/25/96	2,777	468	1300	1380	3832
11/26/96	2,774	468	1298	690	1914
11/27/96	2,234	468	1046	720	1608
11/28/96	2,930	468	1371	610	1787
11/29/96	2,450	468	1147	186	457
11/30/96	2,310	554	1280	103	238

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly total	103,262	14,031	45,524	15,818	51,696
Daily avg.	3,442	468	1,517	527	1,723

Comments: 11/9, 11/10 11/11, 11, 13 11/14 = monthly avg no samples station flooded 11/12 = 4 day total avg from 11/9 - 11/12

11/24 - 11/29 = BOD's monthly avg (results not good due to bad distilled H2O

DECEMBER 1996

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/96	2,750	632	1737	180	495
12/02/96	2,319	616	1429	175	406
12/03/96	2,145	601	1289	170	365
12/04/96	1,723	608	1048	356	614
12/05/96	2,821	640	1804	547	1543
12/06/96	2,385	820	1956	926	2209
12/07/96	2,386	740	1766	1120	2672
12/08/96	2,009	531	1066	175	352
12/09/96	2,471	737	1821	330	815
12/10/96	1,797	706	1269	720	1294
12/11/96	2,510	939	2357	400	1004
12/12/96	1,869	831	1553	920	1719
12/13/96	2,156	897	1934	2340	5045
12/14/96	1,238	777	961	145	180
12/15/96	2,439	851	2076	720	1756
12/16/96	2,068	1071	2215	540	1117
12/17/96	1,960	1242	2434	4260	8350
12/18/96	2,818	1296	3652	274	772
12/19/96	2,711	1086	2944	2340	6344
12/20/96	1,849	820	1516	926	1712
12/21/96	1,560	820	1279	926	1445
12/22/96	963	742	715	147	141
12/23/96	1,602	1023	1639	1480	2371
12/24/96	1,206	714	861	144	174
12/25/96	3,727	676	2518	468	1744
12/26/96	1,550	820	1271	926	1435
12/27/96	1,560	820	1279	926	1445
12/28/96	2,429	735	1784	1670	4056
12/29/96	2,203	864	1903	1230	2710
12/30/96	2,092	771	1613	286	598
12/31/96	1,915	999	1913	2950	5649

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly total	65,231	25,422	53,600	28,717	60,531
Daily avg.	2,104	820	1,729	926	1,953
Comments:	12/6, 12/20, 12/21, 12/26, 12/27 - No sample, frozen tubing also construction going on, no access to station				

MIN	963	531	715	144	141
MAX	3727	1296	3652	4260	8350

1997

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/97	2,220	861	1911	310	688
01/02/97	2,620	807	2114	172	451
01/03/97	2,772	60	166	173	480
01/04/97	3,063	740	2265	264	809
01/05/97	2,107	644	1356	64	135
01/06/97	1,933	656	1268	244	472
01/07/97	2,358	537	1266	500	1179
01/08/97	2,468	596	1470	64	158
01/09/97	2,320	727	1685	355	824
01/10/97	2,968	1023	3036	130	386
01/11/97	1,530	656	1004	244	373
01/12/97	1,882	656	1235	244	459
01/13/97	1,792	657	1176	70	125
01/14/97	2,058	814	1675	107	219
01/15/97	1,952	701	1368	206	403
01/16/97	2,251	692	1558	487	1096
01/17/97	1,909	813	1552	608	1161
01/18/97	2,190	671	1469	260	570
01/19/97	2,196	548	1202	360	791
01/20/97	977	801	783	102	100
01/21/97	2,448	644	1577	430	1053
01/22/97	2,126	629	1337	66	140
01/23/97	2,345	594	1392	307	719
01/24/97	2,094	604	1264	154	322
01/25/97	2,074	711	1475	230	477
01/26/97	2,754	673	1852	472	1300
01/27/97	1,967	588	1156	38	75
01/28/97	2,090	518	1083	324	677
01/29/97	1,896	531	1007	246	466
01/30/97	2,495	543	1355	76	190
01/31/97	1,651	656	1083	244	403
	Flow, m3	**BOD, mg/L**	**BOD, kg/d**	**TSS, mg/L**	**TSS, kg/d**
Monthly Total	67,506	20,346	44,140	7,551	16,700
daily avg.	2,178	656	1,424	244	539
Comments:	1/6, 1/11, 1/12, 1/31 = No sample dut to frozen line, and				
	sampler malfunctioning				
MIN	**977**	**60**	**166**	**38**	**75**
MAX	**3063**	**1023**	**3036**	**608**	**1300**

DATE	POP, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, kg/L
02/01/97	1,801	564	1,016	1,260	2,269	1,140	2,053
02/02/97	2,126	456	969	180	383	172	366
02/03/97	2,283	503	1,148	242	552	224	511
02/04/97	2,339	556	1,299	148	346	136	318
02/05/97	2,477	561	1,390	206	510	186	461
02/06/97	2,172	412	895	230	500	218	473
02/07/97	2,331	524	1,220	312	727	308	718
02/08/97	2,415	428	1,034	210	507	206	497
02/09/97	2,494	442	1,102	72	180	62	155
02/10/97	2,343	417	977	270	632	240	562
02/11/97	2,123	540	1,145	764	1,622	724	1,537
02/12/97	2,708	537	1,454	170	460	156	422
02/13/97	2,364	421	995	82	194	72	170
02/14/97	3,027	396	1,199	120	363	98	297
02/15/97							
02/16/97							
02/17/97							
02/18/97							
02/19/97							
02/20/97							
02/21/97							
02/22/97							
02/23/97							
02/24/97							
02/25/97							
02/26/97							
02/27/97							
02/28/97							

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d		
Monthly Total	33,003	6,756	15,844	4,266	9,246	3,942	8,541
daily avg.	2,357	483	1,132	305	660	282	610
Comments:	industry shut down no longer in service						

MIN	**1,801**	**396**	**895**	**72**	**180**	**62**	**155**
MAX	**3,027**	**564**	**1,454**	**1,260**	**2,269**	**1,140**	**2,053**

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		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	22,198	96	2,131.0	225	5,001.7
April	2	21,217	84	1,782.2	147	3,116.5
April	3	20,744	92	1,908.4	213	4,416.5
April	4	20,142	90	1,812.8	185	3,733.9
April	5	21,062	128	2,695.9	193	4,061.4
April	6	19,398	132	2,560.5	174	3,382.3
April	7	19,690	94	1,850.9	216	4,259.2
April	8	17,613 *	64	1,127.2	163	2,870.9
April	9	19,815	62	1,228.5	158	3,125.9
April	10	19,905	60	1,194.3	224	4,457.5
April	11	19,197	42	806.3	224	4,300.2
April	12	19,567	62	1,213.2	214	4,188.8
April	13	19,185	52	997.6	216	4,148.0
April	14	17,715	58	1,027.5	222	3,927.5
April	15	20,216	98	1,981.2	243	4,918.4
April	16	21,398	98	2,097.0	142	3,037.8
April	17	21,960	58	1,273.7	216	4,749.1
April	18	19,584	90	1,762.6	239	4,679.0
April	19	23,700	106	2,512.2	182	4,304.7
April	20	23,616	70	1,653.1	139	3,281.1
April	21	23,585	76	1,792.5	173	4,072.3
April	22	22,122	76	1,681.3	166	3,674.9
April	23	22,340	112	2,502.1	211	4,713.9
April	24	21,564	58	1,250.7	242	5,218.7
April	25	23,324	168	3,918.4	203	4,725.9
April	26	24,118	130	3,135.3	172	4,149.5
April	27	22,418	102	2,286.6	207	4,636.8
April	28	19,975	166	3,315.9	235	4,700.5
April	29	20,891	68	1,420.6	250	5,213.6
April	30	23,643	60	1,418.6	183	4,325.1
TOTALS		631,902		56,338.1		125,391.6

* BOD and TSS data estimated.

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		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	22,404		46	1,030.6	188	4,204.4
May	2	21,539		54	1,163.1	193	4,148.4
May	3	21,661		98	2,122.8	196	4,240.4
May	4	23,556		70	1,648.9	179	4,214.3
May	5	20,902		134	2,800.9	144	3,004.7
May	6	18,760		66	1,238.2	131	2,462.5
May	7	20,568		132	2,715.0	235	4,825.3
May	8	20,980		142	2,979.2	200	4,187.1
May	9	20,486	*	85	1,741.3	208	4,261.1
May	10	19,566	*	101	1,976.2	195	3,815.4
May	11	20,136		136	2,738.5	191	3,837.6
May	12	20,202		196	3,959.6	296	5,974.1
May	13	19,701		112	2,206.5	313	6,171.5
May	14	19,400		138	2,677.2	317	6,146.3
May	15	21,195		62	1,314.1	172	3,645.0
May	16	24,599		92	2,263.1	188	4,613.6
May	17	20,893		122	2,548.9	168	3,509.3
May	18	20,887		78	1,629.2	201	4,207.4
May	19	24,194		96	2,322.6	192	4,653.4
May	20	21,178	*	81	1,715.4	211	4,468.6
May	21	18,526		96	1,778.5	187	3,470.7
May	22	18,650		96	1,790.4	211	3,928.9
May	23	20,660		230	4,751.8	176	3,630.9
May	24	21,490		146	3,137.5	177	3,805.3
May	25	19,300		104	2,007.2	190	3,657.5
May	26	22,119		106	2,344.6	203	4,482.2
May	27	21,148		76	1,607.2	190	4,021.9
May	28	19,869		78	1,549.8	199	3,949.1
May	29	21,859		52	1,136.7	263	5,757.6
May	30	19,054		48	914.6	59	1,125.1
May	31	20,614		64	1,319.3	230	4,734.2
TOTALS		646,096			65,128.8		129,153.8

* BOD and TSS data estimated.

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		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	19,167	72	1,380.0	214	4,110.9
June	2	20,272	58	1,175.8	257	5,201.7
June	3	19,430	42	816.1	188	3,661.1
June	4	21,762	58	1,262.2	283	6,154.7
June	5	20,942	42	879.6	216	4,523.4
June	6	20,177 *	113	2,280.0	171	3,450.3
June	7	20,243	74	1,498.0	195	3,952.6
June	8	21,230	90	1,910.7	221	4,685.0
June	9	20,551	80	1,644.1	202	4,143.1
June	10	19,140	54	1,033.6	140	2,688.3
June	11	19,439	56	1,088.6	302	5,874.5
June	12	20,955	66	1,383.0	301	6,312.1
June	13	20,781	64	1,330.0	219	4,552.0
June	14	20,517	44	902.7	194	3,986.4
June	15	23,482	280	6,575.0	201	4,723.4
June	16	22,604	50	1,130.2	204	4,606.1
June	17	22,675	38	861.7	207	4,703.9
June	18	21,276	50	1,063.8	203	4,328.0
June	19	21,968	48	1,054.5	199	4,363.0
June	20	22,791	46	1,048.4	119	2,710.6
June	21	27,639	52	1,437.2	166	4,574.9
June	22	20,745	54	1,120.2	190	3,946.9
June	23	21,758	90	1,958.2	235	5,111.1
June	24	22,456	62	1,392.3	191	4,287.4
June	25	21,768	46	1,001.3	194	4,223.4
June	26	21,175	48	1,016.4	217	4,600.5
June	27	20,878	46	960.4	365	7,610.0
June	28	19,170	58	1,111.9	228	4,362.3
June	29	19,417	44	854.3	216	4,197.2
June	30	22,881	44	1,006.8	218	4,978.9
TOTALS		637,289		42,176.8		136,623.8

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	23,273	106	2,466.9	192	4,471.2
July	2	18,735	56	1,049.2	237	4,449.1
July	3	22,925	36	825.3	164	3,758.9
July	4	20,103	64	1,286.6	208	4,178.7
July	5	21,433	54	1,157.4	207	4,443.0
July	6	18,539	100	1,853.9	201	3,734.9
July	7	19,876	80	1,590.1	217	4,305.4
July	8	18,942	56	1,060.8	248	4,706.7
July	9	21,063	74	1,558.7	183	3,859.5
July	10	20,870	56	1,168.7	181	3,784.6
July	11	21,038	58	1,220.2	177	3,720.6
July	12	19,396 *	58	1,125.0	203	3,937.4
July	13	20,255	92	1,863.5	273	5,534.9
July	14	21,603	50	1,080.2	252	5,441.8
July	15	22,036	58	1,278.1	166	3,667.3
July	16	18,846	36	678.5	159	2,993.0
July	17	20,027	24	480.6	164	3,294.2
July	18	21,032	58	1,219.9	40	841.3
July	19	25,647	58	1,487.5	196	5,036.4
July	20	26,861 *	75	2,022.6	219	5,882.6
July	21	13,111	42	550.7	154	2,019.3
July	22	15,762	39	614.7	109	1,714.4
July	23	17,141	54	925.6	107	1,831.1
July	24	19,154	48	919.4	135	2,586.1
July	25	20,964	62	1,299.8	196	4,110.3
July	26	20,231	64	1,294.8	211	4,258.9
July	27	23,700	56	1,327.2	201	4,772.4
July	28	18,490	62	1,146.4	274	5,061.5
July	29	23,418	54	1,264.6	223	5,212.4
July	30	21,929	94	2,061.3	195	4,270.6
July	31	18,921	68	1,286.6	209	3,963.5
TOTALS		635,321		39,164.5		121,841.8

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	19,904	80	1,592.3	238	4,743.1
August	2	23,712	126	2,987.7	191	4,531.4
August	3	22,464	46	1,033.3	202	4,530.9
August	4	22,118	54	1,194.4	224	4,961.3
August	5	21,505	46	989.2	164	3,527.8
August	6	18,613	50	930.7	133	2,468.2
August	7	21,711	56	1,215.8	208	4,517.1
August	8	17,675	52	919.1	166	2,925.7
August	9	20,670	96	1,984.3	191	3,947.3
August	10	20,001	92	1,840.1	172	3,438.3
August	11	18,864	56	1,056.4	192	3,622.0
August	12	18,576	52	966.0	215	3,993.4
August	13	19,217	68	1,306.8	226	4,350.8
August	14	19,201	56	1,075.3	293	5,627.8
August	15	19,475	68	1,324.3	248	4,838.4
August	16	22,332	144	3,215.8	198	4,415.0
August	17	21,866	114	2,492.7	206	4,509.1
August	18	18,692	58	1,084.1	199	3,714.1
August	19	17,130	84	1,438.9	193	3,301.0
August	20	17,901	60	1,074.1	242	4,334.0
August	21	17,003	38	646.1	225	3,830.2
August	22	16,095	38	611.6	203	3,268.8
August	23	21,560	90	1,940.4	225	4,855.3
August	24	18,586	52	966.5	234	4,351.7
August	25	17,001	54	918.1	192	3,260.4
August	26	18,555	100	1,855.5	185	3,423.4
August	27	17,910	102	1,826.8	277	4,957.2
August	28	18,223	42	765.4	253	4,618.6
August	29	18,089	58	1,049.2	353	6,391.6
August	30	18,084	42	759.5	212	3,827.0
August	31	20,837	30	625.1	239	4,976.0
TOTALS		603,570		41,685.4		130,056.9

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	14,390		50	719.5	257	3,693.3
September	2	20,110		80	1,608.8	239	4,813.6
September	3	21,157		84	1,777.2	157	3,317.5
September	4	18,260		104	1,899.0	189	3,448.3
September	5	18,396		60	1,103.8	238	4,375.9
September	6	16,225		48	778.8	273	4,434.0
September	7	17,561		112	1,966.8	266	4,668.1
September	8	17,434	*	66	1,150.6	223	3,887.8
September	9	17,720		48	850.6	234	4,151.9
September	10	17,245		88	1,517.6	181	3,114.4
September	11	16,700		70	1,169.0	204	3,400.4
September	12	18,917		64	1,210.7	202	3,828.1
September	13	17,538		76	1,332.9	228	3,996.1
September	14	19,701	**	74	1,457.9	225	4,429.2
September	15	24,780		52	1,288.6	60	1,486.2
September	16	21,759		34	739.8	189	4,116.7
September	17	19,261		62	1,194.2	177	3,402.6
September	18	17,778		52	924.5	226	4,017.8
September	19	19,431		68	1,321.3	227	4,410.9
September	20	18,049		112	2,021.5	210	3,795.6
September	21	18,058		70	1,264.1	196	3,538.6
September	22	17,796		36	640.7	219	3,896.3
September	23	19,863		44	874.0	207	4,115.2
September	24	17,061		38	648.3	244	4,168.9
September	25	23,154		46	1,065.1	205	4,754.1
September	26	26,676		36	960.3	118	3,143.5
September	27	18,600		72	1,339.2	200	3,718.1
September	28	19,547		68	1,329.2	222	4,335.8
September	29	18,117		50	905.9	248	4,492.1
September	30	18,670		48	896.2	206	3,850.6
TOTALS		569,954			35,955.8		116,801.7

* BOD data estimated.

** TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	20,896		44	919.4	193	4,038.2
October	2	17,776		44	782.1	214	3,798.8
October	3	17,697		48	849.5	252	4,461.0
October	4	19,559		82	1,603.8	304	5,938.5
October	5	19,956		70	1,396.9	238	4,751.9
October	6	17,216		44	757.5	285	4,902.1
October	7	17,661		54	953.7	233	4,111.6
October	8	15,784		66	1,041.7	255	4,030.3
October	9	16,750	*	60	1,005.0	215	3,601.3
October	10	17,627		90	1,586.4	269	4,747.7
October	11	18,062	*	72	1,300.5	238	4,298.8
October	12	19,121		66	1,262.0	250	4,782.6
October	13	26,712	*	42	1,121.9	218	5,823.2
October	14	18,503		34	629.1	113	2,097.2
October	15	17,712		36	637.6	125	2,219.2
October	16	18,115	*	63	1,141.2	209	3,786.0
October	17	22,039		62	1,366.4	174	3,842.1
October	18	20,157		44	886.9	193	3,889.0
October	19	19,532		50	976.6	318	6,211.2
October	20	20,195		54	1,090.5	205	4,135.1
October	21	23,252		54	1,255.6	194	4,503.6
October	22	21,589		60	1,295.3	151	3,264.1
October	23	17,210		96	1,652.2	242	4,159.7
October	24	17,384		160	2,781.4	301	5,238.5
October	25	16,575		58	961.4	282	4,677.5
October	26	17,517		82	1,436.4	309	5,404.3
October	27	18,066		72	1,300.8	165	2,983.4
October	28	17,190		84	1,444.0	188	3,229.5
October	29	15,509		104	1,612.9	289	4,485.8
October	30	19,360		62	1,200.3	219	4,231.7
October	31	20,585		34	699.9	234	4,810.3
TOTALS		585,307			36,949.1		132,454.1

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	16,588		42	696.7	267	4,433.6
November	2	19,254		48	924.2	317	6,109.7
November	3	19,634		48	942.4	214	4,207.0
November	4	17,285		44	760.5	208	3,590.4
November	5	17,602		30	528.1	224	3,949.0
November	6	16,379		24	393.1	198	3,243.9
November	7	17,734		20	354.7	116	2,059.5
November	8	18,988	**	73	1,386.1	230	4,367.2
November	9	18,441		42	774.5	222	4,096.3
November	10	16,961		36	610.6	226	3,835.2
November	11	17,049		118	2,011.8	244	4,164.6
November	12	18,056	**	57	1,029.2	206	3,719.5
November	13	18,382	**	58	1,066.2	216	3,970.5
November	14	22,712		60	1,362.7	223	5,075.6
November	15	16,501	*	62	1,023.1	60	990.1
November	16	15,861	**	60	951.7	276	4,377.6
November	17	19,514		56	1,092.8	229	4,472.9
November	18	17,490		74	1,294.3	216	3,776.1
November	19	17,541		78	1,368.2	297	5,205.8
November	20	17,447		50	872.4	295	5,139.2
November	21	18,501		60	1,110.1	234	4,328.6
November	22	17,057		52	887.0	236	4,025.1
November	23	17,467		40	698.7	230	4,017.4
November	24	15,752		70	1,102.6	230	3,624.8
November	25	16,471		32	527.1	223	3,671.1
November	26	17,047		38	647.8	273	4,646.2
November	27	17,923		82	1,469.7	211	3,790.1
November	28	18,301		40	732.0	218	3,989.6
November	29	16,027		30	480.8	231	3,702.2
November	30	16,492		40	659.7	237	3,908.6
					0.0		0.0
TOTALS		530,457			27,758.5		120,487.5

* BOD data estimated.

** BOD and TSS data estimated.

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		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	18,421	40	736.8	224	4,129.2
December	2	17,430	34	592.6	188	3,284.5
December	3	19,124	40	765.0	182	3,487.2
December	4	17,934	36	645.6	190	3,400.9
December	5	16,273	38	618.4	309	5,026.4
December	6	16,411	36	590.8	263	4,314.1
December	7	17,511	34	595.4	262	4,595.9
December	8	17,457	58	1,012.5	223	3,896.6
December	9	15,235	30	457.1	205	3,120.2
December	10	19,562	62	1,212.8	194	3,796.4
December	11	18,340	44	807.0	207	3,792.6
December	12	15,276	46	702.7	230	3,511.9
December	13	18,820	56	1,053.9	215	4,055.0
December	14	16,801	46	772.8	262	4,398.5
December	15	18,403	68	1,251.4	320	5,896.0
December	16	18,219	80	1,457.5	207	3,769.5
December	17	15,293	60	917.6	269	4,111.7
December	18	16,292	42	684.3	306	4,989.9
December	19	16,966	48	814.4	213	3,606.6
December	20	16,740	44	736.6	203	3,401.9
December	21	15,614	34	530.9	228	3,552.3
December	22	17,152	30	514.6	224	3,849.1
December	23	16,358	44	719.8	210	3,427.2
December	24	15,482	40	619.3	205	3,167.8
December	25	15,101	58	875.9	235	3,550.2
December	26	19,200	34	652.8	274	5,256.2
December	27	21,235	52	1,104.2	229	4,869.2
December	28	18,643	56	1,044.0	219	4,078.7
December	29	17,755	50	887.8	265	4,709.0
December	30	17,747	40	709.9	339	6,019.1
December	31	14,818	36	533.4	212	3,146.5
TOTALS		535,613		24,617.5		126,210.4

* BOD data estimated.

** BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	18,421	40	736.8	224	4,129.2
December	2	17,430	34	592.6	188	3,284.5
December	3	19,124	40	765.0	182	3,487.2
December	4	17,934	36	645.6	190	3,400.9
December	5	16,273	38	618.4	309	5,026.4
December	6	16,411	36	590.8	263	4,314.1
December	7	17,511	34	595.4	262	4,595.9
December	8	17,457	58	1,012.5	223	3,896.6
December	9	15,235	30	457.1	205	3,120.2
December	10	19,562	62	1,212.8	194	3,796.4
December	11	18,340	44	807.0	207	3,792.6
December	12	15,276	46	702.7	230	3,511.9
December	13	18,820	56	1,053.9	215	4,055.0
December	14	16,801	46	772.8	262	4,398.5
December	15	18,403	68	1,251.4	320	5,896.0
December	16	18,219	80	1,457.5	207	3,769.5
December	17	15,293	60	917.6	269	4,111.7
December	18	16,292	42	684.3	306	4,989.9
December	19	16,966	48	814.4	213	3,606.6
December	20	16,740	44	736.6	203	3,401.9
December	21	15,614	34	530.9	228	3,552.3
December	22	17,152	30	514.6	224	3,849.1
December	23	16,358	44	719.8	210	3,427.2
December	24	15,482	40	619.3	205	3,167.8
December	25	15,101	58	875.9	235	3,550.2
December	26	19,200	34	652.8	274	5,256.2
December	27	21,235	52	1,104.2	229	4,869.2
December	28	18,643	56	1,044.0	219	4,078.7
December	29	17,755	50	887.8	265	4,709.0
December	30	17,747	40	709.9	339	6,019.1
December	31	14,818	36	533.4	212	3,146.5
TOTALS		535,613		24,617.5		126,210.4

* BOD data estimated.

** BOD and TSS data estimated.

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1994

GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	15,334	32	490.7	214	3,276.5
January	2	15,793	36	568.5	242	3,825.1
January	3	18,066	62	1,120.1	231	4,172.2
January	4	15,773	60	946.4	293	4,627.8
January	5	16,779	58	973.2	243	4,072.0
January	6	14,756	52	767.3	238	3,511.4
January	7	16,364	56	916.4	301	4,923.3
January	8	14,791	46	680.4	179	2,640.6
January	9	17,494	78	1,364.5	245	4,287.7
January	10	15,401	86	1,324.5	245	3,770.8
January	11	15,822	76	1,202.5	254	4,016.3
January	12	16,894	48	810.9	232	3,911.3
January	13	17,418	48	836.1	227	3,951.0
January	14	16,590	72	1,194.5	312	5,176.7
January	15	18,012	64	1,152.8	314	5,661.2
January	16	16,067	62	996.2	284	4,565.6
January	17	15,934 *	56	892.3	300	4,787.8
January	18	15,658	40	626.3	178	2,790.0
January	19	18,878	48	906.1	229	4,331.7
January	20	14,919	30	447.6	248	3,704.6
January	21	14,659	62	908.9	259	3,791.7
January	22	15,693	68	1,067.1	351	5,502.9
January	23	19,650	54	1,061.1	353	6,944.3
January	24	14,049	64	899.1	289	4,062.7
January	25	19,056	52	990.9	260	4,962.2
January	26	18,110	42	760.6	195	3,538.2
January	27	15,872	88	1,396.7	179	2,838.1
January	28	17,062	40	682.5	149	2,546.5
January	29	15,836	34	538.4	178	2,820.9
January	30	15,459	60	927.5	175	2,702.1
January	31	17,361	108	1,875.0	291	5,052.1
TOTALS		509,550		29,325.1		126,765.0

* TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
February	1	15,563		88	1,369.5	369	5,742.7
February	2	18,448		86	1,586.5	300	5,534.4
February	3	18,900		76	1,436.4	330	6,237.0
February	4	22,180		68	1,508.2	263	5,838.9
February	5	16,395		74	1,213.2	267	4,369.3
February	6	19,622		54	1,059.6	277	5,435.3
February	7	14,555		72	1,048.0	285	4,149.0
February	8	16,041		42	673.7	252	4,047.3
February	9	16,918	*	55	930.5	244	4,128.0
February	10	16,331		26	424.6	245	4,004.2
February	11	16,833		46	774.3	271	4,561.7
February	12	16,362		48	785.4	211	3,459.7
February	13	17,643		62	1,093.9	216	3,819.0
February	14	16,900		66	1,115.4	237	4,002.6
February	15	16,968		54	916.3	308	5,226.1
February	16	17,456		46	803.0	341	5,952.5
February	17	15,107		30	453.2	256	3,862.7
February	18	16,988		32	543.6	341	5,792.9
February	19	18,285		30	548.6	276	5,041.0
February	20	20,293		24	487.0	250	5,069.4
February	21	14,193		40	567.7	284	4,026.4
February	22	17,210		52	894.9	285	4,904.9
February	23	18,716		46	860.9	279	5,221.8
February	24	17,538		36	631.4	228	3,990.9
February	25	16,871		30	506.1	263	4,437.1
February	26	16,635		24	399.2	324	5,389.7
February	27	17,222		46	792.2	304	5,235.5
February	28	18,612		62	1,153.9	304	5,658.0
TOTALS		484,785			24,577.4		135,138.2

* TSS and BOD data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	19,386		54	1,046.8	267	5,176.1
March	2	17,188		42	721.9	254	4,368.0
March	3	18,192		38	691.3	253	4,601.5
March	4	16,549		40	662.0	286	4,733.0
March	5	16,266		32	520.5	290	4,717.1
March	6	19,135		38	727.1	271	5,183.3
March	7	15,716	*	69	1,084.4	282	4,431.9
March	8	17,804		52	925.8	286	5,091.9
March	9	17,847		30	535.4	290	5,175.6
March	10	16,644		30	499.3	254	4,226.6
March	11	17,173		40	686.9	231	3,967.0
March	12	15,774		38	599.4	249	3,923.8
March	13	16,902		42	709.9	274	4,631.1
March	14	16,517		56	925.0	329	5,434.1
March	15	16,510		48	792.5	308	5,085.1
March	16	19,762		114	2,252.9	256	5,059.1
March	17	17,665		86	1,519.2	211	3,735.1
March	18	17,463		82	1,432.0	246	4,295.9
March	19	16,851		56	943.7	228	3,840.0
March	20	19,432		60	1,165.9	246	4,771.7
March	21	16,677		80	1,334.2	269	4,486.1
March	22	15,371		44	676.3	212	3,254.8
March	23	16,130		72	1,161.4	266	4,290.6
March	24	15,713		76	1,194.2	244	3,834.0
March	25	15,713		48	754.2	406	6,379.5
March	26	15,740		60	944.4	365	5,745.1
March	27	19,371		34	658.6	311	6,024.4
March	28	18,228		62	1,130.1	284	5,176.8
March	29	15,537		26	404.0	153	2,377.2
March	30	16,429		26	427.2	201	3,298.1
March	31	16,117		80	1,289.4	175	2,820.5
TOTALS		529,802			28,415.7		140,134.8

* TSS and BOD data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	16,898	24	405.6	179	3,029.0
April	2	18,090	30	542.7	176	3,188.4
April	3	17,950	52	933.4	194	3,482.3
April	4	15,308	74	1,132.8	254	3,885.3
April	5	15,459	36	556.5	407	6,291.8
April	6	16,785	16	268.6	302	5,069.1
April	7	16,872	50	843.6	211	3,560.0
April	8	18,900	44	831.6	259	4,896.2
April	9	15,232	22	335.1	134	2,039.3
April	10	16,729	38	635.7	187	3,132.5
April	11	18,550	34	630.7	168	3,109.5
April	12	20,667	58	1,198.7	123	2,534.4
April	13	19,172	38	728.5	158	3,034.0
April	14	17,770	40	710.8	184	3,269.7
April	15	18,353	46	844.2	137	2,505.2
April	16	22,258	34	756.8	176	3,906.3
April	17	22,532	42	946.3	216	4,861.3
April	18	13,595	64	870.1	257	3,493.9
April	19	16,570	48	795.4	267	4,424.2
April	20	18,254	36	657.1	249	4,545.2
April	21	19,575	30	587.3	235	4,602.7
April	22	17,060	52	887.1	245	4,180.7
April	23	19,229	34	653.8	222	4,259.2
April	24	17,718	30	531.5	211	3,738.5
April	25	18,385	44	808.9	205	3,768.9
April	26	18,921	44	832.5	228	4,310.4
April	27	19,540	26	508.0	256	4,997.4
April	28	18,170	72	1,308.2	226	4,098.4
April	29	18,665	48	895.9	207	3,862.5
April	30	17,978	56	1,006.8	233	4,196.8
TOTALS		541,185		22,644.3		116,273.0

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	24,810		28	694.7	201	4,986.8
May	2	15,069	*	60	904.1	240	3,616.6
May	3	18,740		34	637.2	223	4,184.8
May	4	18,386		38	698.7	227	4,171.4
May	5	18,012		34	612.4	220	3,954.7
May	6	17,400		44	765.6	230	3,999.9
May	7	17,714		19	336.6	239	4,235.9
May	8	18,024		31	558.7	238	4,283.0
May	9	19,135		170	3,253.0	248	4,737.1
May	10	17,220		43	732.9	293	5,045.5
May	11	1,706		56	95.5	303	516.9
May	12	19,554		70	1,368.8	245	4,787.0
May	13	22,508		52	1,167.5	196	4,420.1
May	14	21,423		110	2,356.5	210	4,502.9
May	15	26,117		74	1,932.7	234	6,106.4
May	16	17,869		57	1,021.9	288	5,145.2
May	17	17,913		43	762.4	288	5,157.9
May	18	19,597		35	685.9	281	5,506.8
May	19	17,429		40	697.2	236	4,105.6
May	20	18,154		24	435.7	228	4,141.5
May	21	16,036		40	641.4	257	4,119.3
May	22	17,833		48	856.0	240	4,272.1
May	23	18,269		30	548.1	270	4,935.0
May	24	18,925		28	529.9	258	4,882.7
May	25	18,116		27	489.1	312	5,652.2
May	26	18,972		28	531.2	258	4,888.9
May	27	20,112	*	44	884.9	207	4,163.2
May	28	17,624	*	49	863.6	223	3,930.2
May	29	14,978	*	42	629.1	223	3,340.1
May	30	17,709		54	956.3	206	3,652.5
May	31	17,958	*	40	718.3	260	4,669.1
TOTALS		563,312			27,365.8		136,111.1

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	24,810		28	694.7	201	4,986.8
May	2	15,069	*	60	904.1	240	3,616.6
May	3	18,740		34	637.2	223	4,184.8
May	4	18,386		38	698.7	227	4,171.4
May	5	18,012		34	612.4	220	3,954.7
May	6	17,400		44	765.6	230	3,999.9
May	7	17,714		19	336.6	239	4,235.9
May	8	18,024		31	558.7	238	4,283.0
May	9	19,135		170	3,253.0	248	4,737.1
May	10	17,220		43	732.9	293	5,045.5
May	11	1,706		56	95.5	303	516.9
May	12	19,554		70	1,368.8	245	4,787.0
May	13	22,508		52	1,167.5	196	4,420.1
May	14	21,423		110	2,356.5	210	4,502.9
May	15	26,117		74	1,932.7	234	6,106.4
May	16	17,869		57	1,021.9	288	5,145.2
May	17	17,913		43	762.4	288	5,157.9
May	18	19,597		35	685.9	281	5,506.8
May	19	17,429		40	697.2	236	4,105.6
May	20	18,154		24	435.7	228	4,141.5
May	21	16,036		40	641.4	257	4,119.3
May	22	17,833		48	856.0	240	4,272.1
May	23	18,269		30	548.1	270	4,935.0
May	24	18,925		28	529.9	258	4,882.7
May	25	18,116		27	489.1	312	5,652.2
May	26	18,972		28	531.2	258	4,888.9
May	27	20,112	*	44	884.9	207	4,163.2
May	28	17,624	*	49	863.6	223	3,930.2
May	29	14,978	*	42	629.1	223	3,340.1
May	30	17,709		54	956.3	206	3,652.5
May	31	17,958	*	40	718.3	260	4,669.1
TOTALS		563,312			27,365.8		136,111.1

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	16,551		76	1,257.9	292	4,832.9
June	2	16,599		44	730.4	96	1,586.2
June	3	15,144		52	784.0	278	4,210.0
June	4	20,087		39	774.8	231	4,640.1
June	5	26,570		49	1,307.5	202	5,370.6
June	6	20,861		48	998.8	190	3,953.2
June	7	21,864	*	39	852.7	258	5,640.9
June	8	16,709		52	868.9	248	4,136.5
June	9	17,447		132	2,303.0	199	3,475.3
June	10	17,890		63	1,118.3	219	3,920.2
June	11	17,736		36	636.9	218	3,858.6
June	12	21,063		36	758.3	244	5,131.6
June	13	18,710		52	970.5	208	3,897.5
June	14	21,710		80	1,736.8	171	3,722.0
June	15	17,632		39	687.6	260	4,585.4
June	16	18,492		61	1,128.0	316	5,843.5
June	17	16,658		45	743.9	258	4,301.9
June	18	16,192		33	534.3	234	3,788.9
June	19	16,616		35	584.9	272	4,519.6
June	20	14,302		64	915.3	240	3,432.5
June	21	15,825		36	569.7	209	3,306.5
June	22	15,697		37	580.8	276	4,332.4
June	23	21,697		36	781.1	243	5,273.7
June	24	21,810		32	697.9	190	4,143.9
June	25	20,341		27	549.2	227	4,625.1
June	26	20,574		23	473.2	240	4,940.4
June	27	13,920		48	668.2	241	3,349.6
June	28	16,892		29	494.3	269	4,543.9
June	29	17,191		49	842.4	295	5,071.3
June	30	18,693		44	822.5	247	4,611.4
TOTALS		**551,473**			**26,172.0**		**129,045.5**

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	18,998		44	835.9	150	2,849.7
August	2	21,178		20	423.6	165	3,494.4
August	3	16,857		40	674.3	201	3,386.2
August	4	19,671		288	5,665.2	217	4,271.2
August	5	17,976		34	611.2	169	3,036.9
August	6	20,115		37	744.3	203	4,073.3
August	7	26,393		17	448.7	182	4,810.1
August	8	18,414	*	64	1,178.5	226	4,161.6
August	9	17,930		38	681.3	165	2,951.8
August	10	19,305		28	540.5	208	4,005.8
August	11	16,510		20	330.2	154	2,538.4
August	12	18,600		92	1,711.2	216	4,015.4
August	13	16,460		13	210.7	203	3,337.3
August	14	22,492		23	508.5	141	3,179.9
August	15	23,713		68	1,612.5	119	2,810.0
August	16	19,362		56	1,084.3	123	2,377.5
August	17	23,934		42	999.2	117	2,800.3
August	18	17,799		78	1,388.3	156	2,770.1
August	19	16,844		32	539.0	200	3,367.8
August	20	18,233		44	802.3	248	4,525.2
August	21	21,804		38	828.6	197	4,300.8
August	22	15,642		76	1,188.8	224	3,502.9
August	23	19,731		28	552.5	191	3,766.3
August	24	17,742		13	237.7	183	3,250.2
August	25	17,886		44	787.0	190	3,399.4
August	26	18,150		23	410.4	178	3,231.8
August	27	17,731		13	230.5	192	3,396.6
August	28	17,427		80	1,394.2	140	2,446.8
August	29	19,616	**	75	1,471.2	184	3,609.3
August	30	18,120		76	1,377.1	198	3,579.8
August	31	19,210		24	461.0	240	4,608.1
TOTALS		593,843			29,928.6		107,854.5

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	18,341	56	1,027.1	199	3,657.9
September	2	18,720	80	1,497.6	214	4,009.6
September	3	17,179	34	584.1	135	2,312.8
September	4	19,081	22	419.8	116	2,205.6
September	5	18,822	34	639.9	179	3,366.9
September	6	19,378	96	1,860.3	191	3,700.0
September	7	20,924	44	920.7	241	5,050.6
September	8	19,052	78	1,486.1	211	4,028.4
September	9	19,880	44	874.7	232	4,607.2
September	10	17,375	36	625.5	200	3,479.3
September	11	17,715	24	425.2	239	4,230.5
September	12	19,298	76	1,466.6	271	5,235.7
September	13	20,270	40	810.8	241	4,880.0
September	14	20,648	19	384.5	276	5,698.8
September	15	22,522	40	900.9	177	3,976.5
September	16	19,287	60	1,157.2	171	3,290.9
September	17	26,182	30	785.5	129	3,371.2
September	18	20,934	34	711.8	197	4,114.8
September	19	16,814	158	2,656.6	201	3,375.4
September	20	18,167	18	327.0	234	4,247.6
September	21	18,644	16	298.3	318	5,928.8
September	22	15,317	12	183.8	227	3,480.8
September	23	17,774	40	711.0	173	3,066.0
September	24	18,471	32	591.1	232	4,288.8
September	25	20,437	24	490.5	195	3,978.9
September	26	15,972	76	1,213.9	233	3,716.5
September	27	18,201	74	1,346.9	289	5,260.1
September	28	19,585	42	822.6	235	4,602.5
September	29	18,308	54	988.6	260	4,752.0
September	30	18,186	48	872.9	255	4,637.4
TOTALS		571,484		27,081.2		122,551.7

* BOD data estimated.

** TSS data estimated.

1994

GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	19,278		28	539.8	204	3,923.1
October	2	19,506		50	975.3	249	4,864.4
October	3	16,640		30	499.2	217	3,604.7
October	4	19,155	*	103	1,973.0	183	3,505.4
October	5	19,116		50	955.8	210	4,018.0
October	6	18,735		34	637.0	213	3,994.1
October	7	21,285		44	936.5	177	3,767.4
October	8	21,911		26	569.7	173	3,788.0
October	9	20,723		10	207.2	139	2,883.2
October	10	21,530		88	1,894.6	129	2,784.5
October	11	19,000		298	5,662.0	212	4,022.1
October	12	22,660		42	951.7	191	4,325.3
October	13	19,550		40	782.0	173	3,377.3
October	14	19,530		32	625.0	165	3,218.7
October	15	26,490		30	794.7	128	3,398.1
October	16	18,540		12	222.5	128	2,364.4
October	17	14,770		48	709.0	183	2,704.8
October	18	20,750		58	1,203.5	220	4,555.9
October	19	13,400	*	103	1,380.2	183	2,452.2
October	20	14,680		1,410	20,698.8	404	5,930.7
October	21	4,920		46	226.3	73	359.2
October	22	12,070	*	103	1,243.2	183	2,208.8
October	23	15,720		56	880.3	71	1,122.4
October	24	15,000		74	1,110.0	143	2,143.2
October	25	12,960		60	777.6	198	2,565.3
October	26	13,330	*	103	1,373.0	183	2,439.4
October	27	15,550		66	1,026.3	212	3,300.5
October	28	14,340		90	1,290.6	186	2,667.2
October	29	16,210		36	583.6	203	3,290.6
October	30	19,020		16	304.3	218	4,153.6
October	31	16,421		20	328.4	112	1,844.6
TOTALS		542,790			51,361.1		99,577.2
				103.419		182.679032	

* BOD and TSS data estimated.

1994 GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	13310	28	373	158	2,106
November	2	15190	42	638	263	4,002
November	3	17950	46	826	322	5,780
November	4	16500	34	561	271	4,474
November	5	16850	14	236	198	3,332
November	6	19670	16	315	174	3,426
November	7	21790	106	2,310	126	2,747
November	8	18950	62	1,175	222	4,213
November	9	20190	50	1,010	236	4,767
November	10	19530	72	1,406	203	3,966
November	11	21950	54	1,185	181	3,965
November	12	17690	40	708	244	4,315
November	13	16060	20	321	253	4,058
November	14	16700	96	1,603	285	4,758
November	15	15030	52	782	259	3,893
November	16	15980	56	895	261	4,175
November	17	14640	54	791	254	3,715
November	18	14960	90	1,346	261	3,904
November	19	16700	38	635	245	4,092
November	20	19230	52	1,000	201	3,874
November	21	18440	88	1,623	208	3,843
November	22	17280	80	1,382	195	3,370
November	23	16530	66	1,091	152	2,511
November	24	16680	36	600	166	2,771
November	25	17480	24	420	201	3,520
November	26	17280	52	899	198	3,413
November	27	18410	36	663	252	4,635
November	28	13000	205	2,665	283	3,679
November	29	15340	50	767	246	3,766
November	30	16210	88	1,426	240	3,893
November	31			0		0
TOTALS		**515520**		**29649.44**		**114,960.2**
			58.233333333		225.3	

* BOD and TSS data estimated.

1994 GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	18100	72	1,303	188	3,405
December	2	16660	86	1,433	196	3,268
December	3	14460	40	578	236	3,412
December	4	16520	58	958	247	4,086
December	5	19120	116	2,218	327	6,252
December	6	17280	73	1,266	222	3,844
December	7	18560	46	854	257	4,772
December	8	20940	128	2,680	394	8,250
December	9	16170	80	1,292	170	2,748
December	10	19630	50	982	138	2,702
December	11	15570	52	810	250	3,896
December	12	13780	120	1,654	334	4,603
December	13	15000	52	780	272	4,080
December	14	15670	164	2,570	257	4,033
December	15	16100	77	1,233	276	4,449
December	16	15220	64	974	253	3,855
December	17	14460	26	376	232	3,355
December	18	22860	26	594	214	4,882
December	19	17680	70	1,238	192	3,393
December	20	14910	84	1,252	294	4,384
December	21	17410	88	1,532	315	5,484
December	22	14120	68	960	269	3,803
December	23	15680	48	753	310	4,861
December	24	15580	36	561	265	4,125
December	25	12690	34	431	241	3,054
December	26	19400	24	466	207	4,016
December	27	12490 *	69	862	255	3,185
December	28	15410	84	1,294	309	4,762
December	29	15650	86	1,346	296	4,632
December	30	15860	87	1,373	243	3,854
December	31	15950	36	574	236	3,762
TOTALS		**508930**		**35197.247**		**129,205.1**
			69.140322581		254.7	

* BOD and TSS data estimated.

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1995

GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	13,360	80	1,068.8	168	2,244.5
January	2	15,890	32	508.5	150	2,389.5
January	3	16,460	92	1,514.3	173	2,841.5
January	4	15,740	58	912.9	199	3,139.2
January	5	16,290	84	1,368.4	243	3,958.5
January	6	17,660	34	600.4	195	3,437.2
January	7	16,930	24	406.3	207	3,506.7
January	8	18,160	20	363.2	245	4,445.7
January	9	14,520	88	1,277.8	268	3,891.4
January	10	14,020	50	701.0	319	4,472.4
January	11	15,540	30	466.2	247	3,839.3
January	12	16,370	58	949.5	241	3,946.2
January	13	15,550	38	590.9	251	3,902.1
January	14	15,910	58	922.8	255	4,057.1
January	15	17,510	32	560.3	260	4,552.6
January	16	17,730	80	1,418.4	249	4,407.0
January	17	16,420	48	788.2	191	3,134.2
January	18	16,070 *	58	932.1	225.2	3,619.0
January	19	16,590	52	862.7	247	4,097.7
January	20	18,050	44	794.2	173	3,120.5
January	21	15,900	80	1,272.0	213	3,393.7
January	22	14,640	58	849.1	261	3,824.7
January	23	16,830	128	2,154.2	232	3,904.6
January	24	16,520	50	826.0	250	4,131.0
January	25	15,990	64	1,023.4	231	3,692.7
January	26	18,310	60	1,098.6	197	3,614.0
January	27	18,270	62	1,132.7	187	3,411.9
January	28	15,460 *	58	896.7	225.2	3,481.6
January	29	15,720 *	58	911.8	225.2	3,540.1
January	30	20,280 *	58	1,176.2	225.2	4,567.1
January	31	16,350	72	1,177.2	230	3,752.3
TOTALS		509,040	58.3225806	29,524.7	225.2	114,315.9

* BOD data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
February	1	15,560	66	1,027.0	347	5,399.3
February	2	16,960	70	1,187.2	204	3,459.8
February	3	18,090	64	1,157.8	218	3,935.7
February	4	12,390	36	446.0	200	2,481.1
February	5	21,090	72	1,518.5	230	4,840.2
February	6	21,080	173	3,650.2	270	5,691.6
February	7	17,210	52	894.9	342	5,885.8
February	8	19,000	66	1,254.0	262	4,976.9
February	9	17,120	84	1,438.1	273	4,673.8
February	10	21,280	50	1,064.0	237	5,040.8
February	11	17,500	24	420.0	242	4,234.0
February	12	16,250	34	552.5	251	4,071.6
February	13	19,680	112	2,204.2	310	6,100.8
February	14	18,840	30	565.2	101	1,907.4
February	15	14,590	78	1,138.0	250	3,647.5
February	16	9,240	82	757.7	256	2,364.3
February	17	16,250	160	2,600.0	242	3,932.5
February	18	19,540	54	1,055.2	230	4,485.6
February	19	14,510	32	464.3	257	3,732.7
February	20	14,870	138	2,052.1	278	4,133.9
February	21	17,740	80	1,419.2	343	6,084.8
February	22	13,720	118	1,619.0	334	4,582.5
February	23	22,080	50	1,104.0	254	5,601.5
February	24	15,200	122	1,854.4	346	5,259.2
February	25	13,290	44	584.8	288	3,821.7
February	26	17,420	28	487.8	279	4,860.2
February	27	17,970	28	503.2	346	6,217.6
February	28	15,500	44	682.0	297	4,603.5
				0.0		0.0
				0.0		0.0
				0.0		0.0
TOTALS		473,970		33,701.0		126,026.1

d TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	17,420	108	1,881.4	358	6,236.4
March	2	15,560	82	1,275.9	185	2,871.8
March	3	13,930	92	1,281.6	211	2,934.9
March	4	17,010	66	1,122.7	242	4,114.4
March	5	18,390	22	404.6	208	3,820.5
March	6	16,330	112	1,829.0	241	3,929.5
March	7	19,690	68	1,338.9	110	2,163.5
March	8	20,270	44	891.9	145	2,929.8
March	9	18,190	32	582.1	116	2,114.6
March	10	15,640	36	563.0	179	2,797.7
March	11	16,410	18	295.4	186	3,059.5
March	12	16,650	28	466.2	208	3,454.9
March	13	18,500	82	1,517.0	204	3,776.4
March	14	16,590	62	1,028.6	186	3,085.7
March	15	16,710	42	701.8	177	2,957.7
March	16	18,210	92	1,675.3	119	2,171.2
March	17	18,850	36	678.6	80	1,500.5
March	18	16,810	48	806.9	191	3,208.7
March	19	16,420	92	1,510.6	209	3,429.8
March	20	17,380	70	1,216.6	231	4,017.0
March	21	16,620	76	1,263.1	217	3,604.5
March	22	19,100	54	1,031.4	220	4,204.5
March	23	16,310	42	685.0	164	2,666.7
March	24	13,590	42	570.8	208	2,831.9
March	25	16,350	30	490.5	188	3,071.8
March	26	18,100	72	1,303.2	365	6,606.5
March	27	16,720	22	367.8	40	668.8
March	28	16,860	70	1,180.2	205	3,455.3
March	29	17,240	66	1,137.8	196	3,386.6
March	30	16,820	92	1,547.4	169	2,836.4
March	31	16,470	86	1,416.4	180	2,962.6
TOTALS		529,140		32,061.7		100,870.0

* BOD and TSS data estimated.

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	15780		38	599.6	188	2,958.8
April	2	15830		48	759.8	260	4,110.9
April	3	15650		68	1,064.2	246	3,849.0
April	4	15940		72	1,147.7	203	3,230.9
April	5	17500	*	122	2,135.0	225	3,937.5
April	6	15390	*	122	1,877.6	225	3,462.8
April	7	18430		54	995.2	186	3,435.0
April	8	17000		48	816.0	152	2,575.5
April	9	15700		68	1,067.6	211	3,313.6
April	10	16820		34	571.9	192	3,227.4
April	11	17250		74	1,276.5	185	3,183.7
April	12	16270	**	122	1,984.9	481	7,825.9
April	13	17220		70	1,205.4	259	4,460.0
April	14	16540		54	893.2	242	4,009.0
April	15	16690		532	8,879.1	325	5,424.3
April	16	16310		144	2,348.6	258	4,208.0
April	17	16390		208	3,409.1	241	3,950.0
April	18	19410		728	14,130.5	257	4,986.0
April	19	16020		64	1,025.3	189	3,025.9
April	20	10470		90	942.3	166	1,739.4
April	21	11580		108	1,250.6	148	1,710.9
April	22	14840		50	742.0	146	2,164.9
April	23	15440	*	122	1,883.7	225	3,474.0
April	24	14130		38	536.9	321	4,535.7
April	25	15910		72	1,145.5	281	4,470.7
April	26	18320		64	1,172.5	231	4,234.3
April	27	16610		78	1,295.6	144	2,391.8
April	28	11780		148	1,743.4	153	1,798.0
April	29	15050		152	2,287.6	191	2,871.7
April	30	15230		78	1,187.9	215	3,277.3
April	31				0.0		0.0
TOTALS		475,500			60,375.4		107,842.7

* BOD and TSS data estimated.
S data estimated

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GEORGIA PACIFIC

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	15770	68.00	1,072.4	198.44	3,129.4
May	2	15380	60.00	922.8	251.00	3,860.4
May	3	15800	40.00	632.0	252.19	3,984.6
May	4	15920	52.00	827.8	198.75	3,164.1
May	5	15570	48.00	747.4	226.00	3,518.8
May	6	15980	58.00	926.8	227.25	3,631.5
May	7	16110	82.00	1,321.0	257.00	4,140.3
May	8	17510	54.00	945.5	273.00	4,780.2
May	9	16360	60.00	981.6	299.00	4,891.6
May	10	18130	38.00	688.9	210.44	3,815.3
May	11	18060	16.00	289.0	185.00	3,341.1
May	12	16430	44.00	722.9	227.94	3,745.1
May	13	17950	46.00	825.7	248.13	4,453.9
May	14	15480	78.00	1,207.4	198.31	3,069.8
May	15	16760	66.00	1,106.2	248.50	4,164.9
May	16	16810	76.00	1,277.6	292.00	4,908.5
May	17	16900	94.00	1,588.6	243.88	4,121.6
May	18	17510	60.00	1,050.6	231.56	4,054.6
May	19	16720	50.00	836.0	352.00	5,885.4
May	20	15870	108.00	1,714.0	284.00	4,507.1
May	21	17100	62.00	1,060.2	284.00	4,856.4
May	22	17270	58.00	1,001.7	244.00	4,213.9
May	23	17370	72.00	1,250.6	243.38	4,227.5
May	24	16560	98.00	1,622.9	320.00	5,299.2
May	25	17020	52.00	885.0	229.44	3,905.1
May	26	16350	48.00	784.8	271.00	4,430.9
May	27	17930	52.00	932.4	319.00	5,719.7
May	28	16480	42.00	692.2	319.00	5,257.1
May	29	16830	38.00	639.5	288.00	4,847.0
May	30	15530	64.00	993.9	266.00	4,131.0
May	31	16060	60.00	963.6	238.00	3,822.3
TOTALS		515,520		30,511.0		131,878.2

* BOD and TSS data estimated.

S data estimated

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	16790		42.00	705.2	231.81	3,892.1
June	2	15830		46.00	728.2	252.56	3,998.0
June	3	19370		30.00	581.1	229.75	4,450.3
June	4	19600		48.00	940.8	226.25	4,434.5
June	5	18100		66.00	1,194.6	291.00	5,267.1
June	6	20410		56.00	1,143.0	252.00	5,143.3
June	7	18210		60.00	1,092.6	251.00	4,570.7
June	8	17700		38.00	672.6	219.00	3,876.3
June	9	18120	*	48.00	869.8	259.21	4,696.9
June	10	19500		70.00	1,365.0	240.44	4,688.6
June	11	18150		54.00	980.1	265.00	4,809.8
June	12	21620		44.00	951.3	239.13	5,170.0
June	13	22630		36.00	814.7	246.56	5,579.7
June	14	21030		30.00	630.9	246.56	5,185.2
June	15	15930		52.00	828.4	270.69	4,312.1
June	16	16450		122.00	2,006.9	331.00	5,445.0
June	17	18060		42.00	758.5	333.00	6,014.0
June	18	18090		28.00	506.5	279.00	5,047.1
June	19	17430		36.00	627.5	255.00	4,444.7
June	20	16860		54.00	910.4	301.00	5,074.9
June	21	18480		26.00	480.5	240.31	4,440.9
June	22	18060	*	48.00	866.9	259.21	4,681.3
June	23	16760		40.00	670.4	257.94	4,323.1
June	24	16630		42.00	698.5	271.00	4,506.7
June	25	16680		38.00	633.8	291.00	4,853.9
June	26	19270		40.00	770.8	318.00	6,127.9
June	27	14450		46.00	664.7	268.00	3,872.6
June	28	16680		54.00	900.7	247.00	4,120.0
June	29	16770		50.00	838.5	217.38	3,645.5
June	30	19670		58.00	1,140.9	186.44	3,667.3
					0.0		0.0
TOTALS		543,330		48	25,973.6	259.21	140,339.1

* BOD and TSS data estimated.

** TSS data estimated

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GEORGIA PACIFIC

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	19050		114.00	2,171.7	234.19	4,461.3
July	2	17870		42.00	750.5	247.38	4,420.7
July	3	16600	*	46.00	763.6	256.65	4,260.4
July	4	14980		56.00	838.9	288.00	4,314.2
July	5	18850		58.00	1,093.3	288.00	5,428.8
July	6	17540		32.00	561.3	287.00	5,034.0
July	7	14570		28.00	408.0	211.00	3,074.3
July	8	16880		24.00	405.1	247.00	4,169.4
July	9	17140		22.00	377.1	262.00	4,490.7
July	10	17790		42.00	747.2	274.56	4,884.4
July	11	16550		40.00	662.0	232.69	3,851.0
July	12	17340		22.00	381.5	290.00	5,028.6
July	13	17350		76.00	1,318.6	351.00	6,089.9
July	14	16210		60.00	972.6	301.00	4,879.2
July	15	17810		26.00	463.1	266.69	4,749.7
July	16	17580		26.00	457.1	288.00	5,063.0
July	17	16650		28.00	466.2	267.00	4,445.6
July	18	15380		26.00	399.9	238.63	3,670.1
July	19	19910		30.00	597.3	256.69	5,110.7
July	20	17620		114.00	2,008.7	184.69	3,254.2
July	21	16100	*	46.00	740.6	256.65	4,132.1
July	22	17330	*	46.00	797.2	256.65	4,447.7
July	23	19710	*	46.00	906.7	256.65	5,058.6
July	24	15110	*	46.00	695.1	256.65	3,878.0
July	25	17170	*	46.00	789.8	256.65	4,406.7
July	26	16990	*	46.00	781.5	256.65	4,360.5
July	27	16590	*	46.00	763.1	256.65	4,257.8
July	28	18170		42.00	763.1	235.38	4,276.9
July	29	14250		54.00	769.5	209.50	2,985.4
July	30	18020		58.00	1,045.2	213.19	3,841.7
		17480		48.00	839.0	229.31	4,008.3
TOTALS		530,590			24,734.4		136,333.8
				46		256.65	

* BOD and TSS data estimated.

** TSS data estimated

Industry Location: GEO

August 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
08/01/95	17,840.00	4,387.57	245.94	463.84	26.00
08/02/95	21,300.00	5,263.87	247.13	1,278.00	60.00
08/04/95	20,880.00	4,279.15	204.94	960.48	46.00
08/05/95	21,270.00	4,030.67	189.50	1,020.96	48.00
08/06/95	20,110.00	4,600.16	228.75	1,206.60	60.00
08/07/95	21,940.00	3,886.23	177.13	1,097.00	50.00
08/08/95	21,850.00	4,096.88	187.50	1,660.60	76.00
08/09/95	22,000.00	4,474.36	203.38	2,508.00	114.00
08/10/95	20,920.00	4,359.31	208.38	2,761.44	132.00
08/11/95	19,860.00	4,019.27	202.38	1,747.68	88.00
08/12/95	21,710.00	4,253.86	195.94	1,693.38	78.00
08/13/95	20,110.00	4,527.36	225.13	1,488.14	74.00
08/14/95	20,850.00	5,087.40	244.00	2,210.10	106.00
08/15/95	17,360.00	4,190.36	241.38	937.44	54.00
08/16/95	20,580.00	5,026.67	244.25	1,193.64	58.00
08/17/95	24,380.00	4,443.26	182.25	1,170.24	48.00
08/18/95	21,180.00	3,141.63	148.33	1,482.60	70.00
08/19/95	20,100.00	4,285.12	213.19	1,688.40	84.00
08/20/95	17,830.00	3,238.46	181.63	1,105.46	62.00
08/21/95	18,930.00	5,092.17	269.00	1,097.94	58.00
08/22/95	21,470.00	4,464.47	207.94	2,576.40	120.00
08/23/95	17,970.00	4,348.74	242.00	1,114.14	62.00
08/24/95	15,800.00	4,289.70	271.50	695.20	44.00
08/26/95	17,850.00	4,119.96	230.81	1,071.00	60.00
08/27/95	18,110.00	4,567.16	252.19	977.94	54.00
08/28/95	17,050.00	3,938.55	231.00	1,227.60	72.00
08/29/95	16,350.00	3,989.40	244.00	915.60	56.00
08/30/95	17,430.00	5,473.02	314.00	906.36	52.00
08/31/95	20,310.00	4,318.52	212.63	1,868.52	92.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	573,340.00	126,193.25	6,446.20	40,124.70	2,004.00

Industry Location: GEO

September 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
09/01/95	20,800.00	5,257.20	252.75	1,206.40	58.00
09/02/95	16,600.00	4,245.45	255.75	1,128.80	68.00
09/03/95	18,210.00	4,648.10	255.25	1,347.54	74.00
09/04/95	18,400.00	4,815.10	261.69	1,030.40	56.00
09/05/95	19,270.00	4,663.34	242.00	809.34	42.00
09/06/95	22,330.00	4,767.46	213.50	1,161.16	52.00
09/07/95	22,330.00	3,843.66	172.13	1,384.46	62.00
09/08/95	18,540.00	3,631.62	195.88	1,223.64	66.00
09/09/95	18,420.00	3,875.20	210.38	810.48	44.00
09/10/95	20,170.00	5,527.79	274.06	1,008.50	50.00
09/11/95	17,520.00	4,730.40	270.00	946.08	54.00
09/12/95	19,120.00	3,933.94	205.75	1,147.20	60.00
09/13/95	19,320.00	4,519.72	233.94	1,004.64	52.00
09/14/95	18,840.00	4,411.01	234.13	1,582.56	84.00
09/15/95	16,150.00	4,376.65	271.00	807.50	50.00
09/16/95	19,960.00	4,834.11	242.19	1,836.32	92.00
09/17/95	19,500.00	5,070.00	260.00	1,521.00	78.00
09/18/95	22,430.00	6,280.40	280.00	1,345.80	60.00
09/19/95	17,580.00	4,535.64	258.00	1,019.64	58.00
09/20/95	17,660.00	4,451.38	252.06	847.68	48.00
09/21/95	17,170.00	3,944.81	229.75	927.18	54.00
09/22/95	21,300.00	4,197.38	197.06	1,363.20	64.00
09/23/95	14,900.00	3,444.73	231.19	834.40	56.00
09/24/95	16,900.00	4,464.81	264.19	980.20	58.00
09/25/95	20,240.00	6,011.28	297.00	971.52	48.00
09/26/95	17,430.00	4,549.23	261.00	1,254.96	72.00
09/27/95	14,460.00	3,497.58	241.88	1,243.56	86.00
09/28/95	19,340.00	3,936.85	203.56	1,199.08	62.00
09/29/95	16,190.00	4,889.38	302.00	550.46	34.00
09/30/95	15,710.00	3,066.43	195.19	502.72	32.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	556,790.00	134,420.65	7,263.28	32,996.42	1,774.00

Industry Location: GEO

October 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
10/01/95	16,770.00	1,805.29	107.65	670.80	40.00
10/02/95	15,460.00	4,266.96	276.00	1,174.96	76.00
10/03/95	16,360.00	3,697.36	226.00	818.00	50.00
10/04/95	17,180.00	4,226.28	246.00	1,305.68	76.00
10/05/95	22,280.00	4,589.68	206.00	1,247.68	56.00
10/06/95	15,300.00	3,060.61	200.04	1,075.13	70.27
10/07/95	19,750.00	4,830.06	244.56	1,382.50	70.00
10/08/95	9,260.00	2,264.63	244.56	277.80	30.00
10/09/95	9,510.00	380.40	40.00	171.18	18.00
10/10/95	10,520.00	420.80	40.00	378.72	36.00
10/11/95	19,150.00	2,779.24	145.13	2,068.20	108.00
10/12/95	18,300.00	3,871.55	211.56	1,683.60	92.00
10/13/95	19,800.00	5,011.97	253.13	1,227.60	62.00
10/14/95	17,360.00	3,887.60	223.94	1,597.12	92.00
10/15/95	17,650.00	4,180.93	236.88	1,835.60	104.00
10/16/95	16,370.00	3,617.77	221.00	1,244.12	76.00
10/17/95	18,200.00	4,113.20	226.00	1,164.80	64.00
10/18/95	18,530.00	4,442.57	239.75	1,482.40	80.00
10/19/95	17,660.00	4,118.14	233.19	1,412.80	80.00
10/20/95	17,820.00	3,650.96	204.88	2,280.96	128.00
10/21/95	21,100.00	5,404.34	256.13	1,308.20	62.00
10/22/95	19,930.00	5,104.67	256.13	438.46	22.00
10/23/95	8,060.00	322.40	40.00	177.32	22.00
10/24/95	14,070.00	906.11	64.40	590.94	42.00
10/25/95	17,830.00	2,861.72	160.50	1,925.64	108.00
10/26/95	15,480.00	3,807.15	245.94	2,105.28	136.00
10/27/95	20,050.00	4,010.00	200.00	1,684.20	84.00
10/28/95	19,000.00	4,758.36	250.44	1,254.00	66.00
10/29/95	20,100.00	5,309.01	264.13	1,246.20	62.00
10/30/95	19,760.00	4,689.25	237.31	1,462.24	74.00
10/31/95	17,220.00	3,444.00	200.00	1,584.24	92.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	525,830.00	109,833.00	6,201.25	38,276.37	2,178.27

Note: 10/6/95 CBOD and TSS data is a\monthly average

Industry Location: GEO

November 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
11/01/95	18,620.00	4,048.73	217.44	1,340.64	72.00
11/02/95	16,210.00	3,710.14	228.88	1,296.80	80.00
11/03/95	12,510.00	2,914.08	232.94	1,125.90	90.00
11/04/95	15,950.00	3,065.43	192.19	1,595.00	100.00
11/05/95	23,200.00	5,460.82	235.38	2,459.20	106.00
11/06/95	19,830.00	5,081.44	256.25	1,864.02	94.00
11/07/95	23,400.00	6,575.40	281.00	2,714.40	116.00
11/08/95	16,310.00	4,589.31	281.38	2,185.54	134.00
11/09/95	17,420.00	4,932.12	283.13	1,219.40	70.00
11/10/95	15,700.00	4,058.45	258.50	910.60	58.00
11/11/95	18,250.00	4,690.25	257.00	1,496.50	82.00
11/12/95	16,450.00	4,704.70	286.00	1,283.10	78.00
11/13/95	16,200.00	4,892.40	302.00	1,360.80	84.00
11/14/95	17,680.00	4,826.64	273.00	2,263.04	128.00
11/15/95	16,390.00	3,619.08	220.81	1,737.34	106.00
11/16/95	16,670.00	3,376.68	202.56	1,100.22	66.00
11/17/95	16,940.00	5,437.74	321.00	2,100.56	124.00
11/18/95	16,920.00	2,024.14	119.63	1,624.32	96.00
11/19/95	18,120.00	5,240.12	289.19	3,334.08	184.00
11/20/95	23,980.00	5,978.45	249.31	3,537.05	147.50
11/21/95	21,790.00	3,100.28	142.28	2,571.22	118.00
11/22/95	23,330.00	5,258.12	225.38	3,266.20	140.00
11/23/95	17,300.00	2,919.38	168.75	1,418.60	82.00
11/24/95	7,030.00	497.72	70.80	1,026.38	146.00
11/25/95	5,900.00	1,231.27	208.69	703.81	119.29
11/26/95	5,920.00	236.80	40.00	734.08	124.00
11/27/95	6,040.00	241.60	40.00	785.20	130.00
11/28/95	13,540.00	541.60	40.00	1,841.44	136.00
11/29/95	18,560.00	2,445.47	131.76	7,758.08	418.00
11/30/95	17,610.00	3,619.91	205.56	2,641.50	150.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	493,770.00	109,318.26	6,260.81	59,295.02	3,578.79

Note: Data from 11/25/95 is monthly average.

Industry Location: GEO

December 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
12/01/95	21,770.00	4,726.92	217.13	2,481.78	114.00
12/02/95	19,900.00	3,126.89	157.13	1,990.00	100.00
12/03/95	18,720.00	4,612.23	246.38	1,404.00	75.00
12/04/95	16,630.00	4,164.82	250.44	1,164.10	70.00
12/05/95	18,940.00	3,844.63	202.99	1,722.21	90.93
12/06/95	19,180.00	5,137.94	267.88	959.00	50.00
12/07/95	19,710.00	3,757.32	190.63	1,931.58	98.00
12/08/95	20,200.00	5,188.98	256.88	3,312.80	164.00
12/09/95	19,620.00	4,677.02	238.38	1,844.28	94.00
12/10/95	20,900.00	5,360.85	256.50	2,257.20	108.00
12/11/95	19,720.00	4,944.79	250.75	2,445.28	124.00
12/12/95	20,620.00	5,938.56	288.00	3,216.72	156.00
12/13/95	21,260.00	5,952.80	280.00	1,658.28	78.00
12/14/95	21,770.00	5,766.44	264.88	2,743.02	126.00
12/15/95	15,850.00	3,552.46	224.13	1,902.00	120.00
12/16/95	17,070.00	3,883.43	227.50	1,468.02	86.00
12/17/95	17,910.00	4,668.96	260.69	1,540.26	86.00
12/18/95	18,440.00	5,120.60	277.69	1,622.72	88.00
12/19/95	17,950.00	4,383.21	244.19	1,723.20	96.00
12/20/95	18,860.00	4,605.42	244.19	2,225.48	118.00
12/21/95	18,120.00	4,313.65	238.06	1,558.32	86.00
12/22/95	17,310.00	4,388.09	253.50	1,211.70	70.00
12/23/95	16,680.00	3,982.35	238.75	1,434.48	86.00
12/24/95	20,000.00	4,786.20	239.31	3,040.00	152.00
12/25/95	9,410.00	694.27	73.78	752.80	80.00
12/26/95	10,440.00	417.60	40.00	689.04	66.00
12/27/95	8,560.00	342.40	40.00	462.24	54.00
12/28/95	9,690.00	387.60	40.00	406.98	42.00
12/29/95	9,430.00	377.20	40.00	264.04	28.00
12/30/95	9,500.00	380.00	40.00	462.65	48.70
12/31/95	9,530.00	381.20	40.00	209.66	22.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	523,690.00	113,864.81	6,129.76	50,103.84	2,776.63

Flowdate	Comment
12/5/95	Data is monthly average.
12/30/95	Data is average from 12/25/95 - 12/31/95 (Shut down).

1996

Industry Location: GEO

January 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
01/01/96	7,900.00	316.00	40.00	616.20	78.00
01/02/96	9,540.00	381.60	40.00	629.64	66.00
01/03/96	22,910.00	3,954.95	172.63	1,741.16	76.00
01/04/96	21,960.00	4,096.86	186.56	2,898.72	132.00
01/05/96	25,920.00	5,384.88	207.75	3,110.40	120.00
01/06/96	16,590.00	5,325.39	321.00	1,990.80	120.00
01/07/96	23,320.00	4,327.26	185.56	3,451.36	148.00
01/08/96	20,023.00	3,417.73	170.69	2,883.31	144.00
01/09/96	24,220.00	4,884.93	201.69	2,761.08	114.00
01/10/96	16,810.00	3,917.74	233.06	1,949.96	116.00
01/11/96	22,150.00	4,013.36	181.19	2,259.30	102.00
01/12/96	25,840.00	5,182.47	200.56	3,204.16	124.00
01/13/96	19,830.00	4,052.86	204.38	3,371.10	170.00
01/14/96	20,010.00	3,301.65	165.00	2,601.30	130.00
01/15/96	24,310.00	3,819.59	157.12	3,549.26	146.00
01/16/96	20,210.00	3,747.74	185.44	2,546.46	126.00
01/17/96	21,610.00	4,447.55	205.81	2,247.44	104.00
01/18/96	22,800.00	4,093.97	179.56	1,960.80	86.00
01/19/96	17,500.00	1,883.00	107.60	1,680.00	96.00
01/20/96	24,230.00	3,789.09	156.38	2,035.32	84.00
01/21/96	22,220.00	3,988.49	179.50	3,732.96	168.00
01/22/96	21,540.00	3,760.02	174.56	3,360.24	156.00
01/23/96	16,480.00	3,992.28	242.25	3,230.08	196.00
01/24/96	19,160.00	4,693.05	244.94	1,916.00	100.00
01/25/96	17,310.00	3,344.12	193.19	1,280.94	74.00
01/26/96	20,280.00	4,450.24	219.44	1,581.84	78.00
01/27/96	19,580.00	5,443.24	278.00	2,114.64	108.00
01/28/96	16,190.00	3,356.35	207.31	2,039.94	126.00
01/29/96	14,700.00	2,565.15	174.50	1,822.80	124.00
01/30/96	16,790.00	2,651.81	157.94	2,182.70	130.00
01/31/96	19,400.00	2,145.25	110.58	1,435.60	74.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	611,333.00	114,728.62	5,684.19	72,185.51	3,616.00

Flowdate	Comment

Industry Location: GEO

February 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
02/01/96	23,100.00	3,288.75	142.37	1,062.60	46.00
02/02/96	18,010.00	2,791.55	155.00	1,764.98	98.00
02/03/96	11,730.00	2,442.77	208.25	1,712.58	146.00
02/04/96	12,420.00	2,719.98	219.00	1,117.80	90.00
02/05/96	13,280.00	2,593.72	195.31	1,699.84	128.00
02/06/96	13,770.00	3,046.61	221.25	1,707.48	124.00
02/07/96	21,020.00	2,657.77	126.44	3,405.24	162.00
02/08/96	21,710.00	4,205.01	193.69	2,084.16	96.00
02/09/96	19,190.00	4,191.86	218.44	2,686.60	140.00
02/10/96	16,460.00	3,130.53	190.19	3,061.56	186.00
02/11/96	17,600.00	3,901.74	221.69	2,076.80	118.00
02/12/96	19,840.00	4,997.10	251.87	2,499.84	126.00
02/13/96	19,740.00	4,950.99	250.81	1,974.00	100.00
02/14/96	23,330.00	5,660.56	242.63	2,846.26	122.00
02/15/96	20,410.00	4,898.40	240.00	1,469.52	72.00
02/16/96	19,590.00	2,741.23	139.93	1,371.30	70.00
02/17/96	16,650.00	2,278.72	136.86	2,497.50	150.00
02/18/96	10,100.00	802.34	79.44	484.80	48.00
02/19/96	14,090.00	563.60	40.00	1,239.92	88.00
02/20/96	12,810.00	887.09	69.25	1,767.78	138.00
02/21/96	19,160.00	2,502.87	130.63	3,793.68	198.00
02/22/96	29,110.00	3,603.82	123.80	5,006.92	172.00
02/23/96	25,000.00	4,528.25	181.13	4,850.00	194.00
02/24/96	25,980.00	5,119.62	197.06	4,416.60	170.00
02/25/96	22,650.00	3,090.37	136.44	3,850.50	170.00
02/26/96	22,240.00	3,919.80	176.25	2,846.72	128.00
02/27/96	16,030.00	984.24	61.40	288.54	18.00
02/28/96	20,640.00	2,884.65	139.76	3,962.88	192.00
02/29/96	21,140.00	3,617.69	171.13	3,593.80	170.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	546,800.00	93,001.63	4,860.02	71,140.20	3,660.00

Flowdate	Comment

Industry Location: GEO

March 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
03/01/96	22,660.00	4,104.41	181.13	2,764.52	122.00
03/02/96	22,920.00	4,319.04	188.44	3,438.00	150.00
03/03/96	23,460.00	3,536.83	150.76	4,410.48	188.00
03/04/96	25,730.00	5,126.70	199.25	4,013.88	156.00
03/05/96	22,500.00	3,978.23	176.81	2,610.00	116.00
03/06/96	26,950.00	4,689.30	174.00	3,880.80	144.00
03/07/96	19,220.00	2,784.98	144.90	2,075.76	108.00
03/08/96	24,050.00	3,047.86	126.73	3,270.80	136.00
03/09/96	22,500.00	3,353.85	149.06	3,195.00	142.00
03/10/96	24,670.00	4,255.58	172.50	2,022.94	82.00
03/11/96	12,350.00	689.13	55.80	444.60	36.00
03/12/96	7,420.00	296.80	40.00	296.80	40.00
03/13/96	8,130.00	325.20	40.00	373.98	46.00
03/14/96	7,820.00	312.80	40.00	578.68	74.00
03/15/96	7,530.00	301.20	40.00	286.14	38.00
03/16/96	7,680.00	307.20	40.00	245.76	32.00
03/17/96	8,220.00	328.80	40.00	230.16	28.00
03/18/96	23,510.00	2,404.13	102.26	3,009.28	128.00
03/19/96	22,300.00	3,612.60	162.00	5,485.80	246.00
03/20/96	24,020.00	4,251.54	177.00	3,891.24	162.00
03/21/96	23,770.00	6,064.44	255.13	3,755.66	158.00
03/22/96	19,360.00	3,872.00	200.00	2,865.28	148.00
03/23/96	27,060.00	4,625.64	170.94	2,218.92	82.00
03/24/96	23,370.00	4,577.72	195.88	3,131.58	134.00
03/25/96	19,340.00	4,003.38	207.00	773.60	40.00
03/26/96	18,610.00	2,720.22	146.17	669.96	36.00
03/27/96	19,240.00	1,961.13	101.93	769.60	40.00
03/28/96	16,230.00	1,639.39	101.01	941.34	58.00
03/29/96	16,280.00	1,597.88	98.15	455.84	28.00
03/30/96	17,730.00	3,997.05	225.44	531.90	30.00
03/31/96	17,310.00	3,483.64	201.25	796.26	46.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	581,940.00	90,568.66	4,303.54	63,434.56	2,974.00

Flowdate	Comment

Industry Location: GEO

April 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
04/01/96	17,290.00	2,749.11	159.00	864.50	50.00
04/02/96	20,220.00	4,106.48	203.09	2,460.17	121.67
04/03/96	20,570.00	4,248.94	206.56	1,974.72	96.00
04/04/96	21,040.00	3,566.28	169.50	2,735.20	130.00
04/05/96	25,400.00	4,419.60	174.00	2,438.40	96.00
04/06/96	20,920.00	3,891.12	186.00	2,301.20	110.00
04/07/96	21,000.00	3,659.25	174.25	3,150.00	150.00
04/08/96	24,230.00	4,876.29	201.25	2,859.14	118.00
04/09/96	27,500.00	7,880.13	286.55	8,250.00	300.00
04/10/96	25,210.00	3,772.17	149.63	3,428.56	136.00
04/11/96	27,320.00	3,582.74	131.14	3,606.24	132.00
04/12/96	25,460.00	4,504.89	176.94	3,717.16	146.00
04/13/96	23,460.00	3,334.37	142.13	1,079.16	46.00
04/14/96	19,100.00	4,172.20	218.44	1,986.40	104.00
04/15/96	20,160.00	5,483.52	272.00	1,814.40	90.00
04/16/96	19,860.00	5,640.24	284.00	2,025.72	102.00
04/17/96	21,600.00	4,719.60	218.50	1,771.20	82.00
04/18/96	19,420.00	3,459.28	178.13	2,835.32	146.00
04/19/96	18,970.00	3,775.03	199.00	2,617.86	138.00
04/20/96	20,390.00	4,483.35	219.88	1,345.74	66.00
04/21/96	17,500.00	5,355.00	306.00	1,155.00	66.00
04/22/96	18,760.00	3,944.29	210.25	2,213.68	118.00
04/23/96	10,120.00	2,254.23	222.75	870.32	86.00
04/24/96	18,070.00	4,450.82	246.31	2,891.20	160.00
04/25/96	19,910.00	3,801.62	190.94	2,110.46	106.00
04/26/96	19,740.00	3,876.54	196.38	4,026.96	204.00
04/27/96	18,980.00	4,406.97	232.19	2,315.56	122.00
04/28/96	20,670.00	5,104.25	246.94	3,637.92	176.00
04/29/96	18,700.00	4,362.90	233.31	2,917.20	156.00
04/30/96	21,380.00	5,573.55	260.69	4,660.84	218.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	622,950.00	129,454.77	6,295.75	80,060.23	3,771.67

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	20,982.26	4,175.96	203.09	2,582.59	121.67			

Flowdate	Comment
4/2/96	Data is monthly average.

Industry Location: GEO

May 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
05/01/96	17,640.00	5,697.72	323.00	2,293.20	130.00
05/02/96	18,460.00	5,630.30	305.00	1,476.80	80.00
05/03/96	18,000.00	3,435.66	190.87	1,665.54	92.53
05/04/96	17,870.00	4,286.66	239.88	1,143.68	64.00
05/05/96	17,820.00	4,504.01	252.75	1,176.12	66.00
05/06/96	18,930.00	4,543.20	240.00	1,287.24	68.00
05/07/96	18,250.00	4,303.53	235.81	1,423.50	78.00
05/08/96	20,570.00	5,800.74	282.00	2,303.84	112.00
05/09/96	10,700.00	2,494.49	233.13	1,348.20	126.00
05/10/96	23,540.00	5,296.50	225.00	2,354.00	100.00
05/11/96	20,100.00	5,202.08	258.81	2,010.00	100.00
05/12/96	19,500.00	4,407.00	226.00	1,989.00	102.00
05/13/96	23,140.00	5,050.31	218.25	1,943.76	84.00
05/14/96	12,890.00	1,297.12	100.63	824.96	64.00
05/15/96	1,080.00	43.20	40.00	36.72	34.00
05/16/96	1,160.00	46.40	40.00	44.08	38.00
05/17/96	8,900.00	356.00	40.00	284.80	32.00
05/18/96	11,290.00	451.60	40.00	361.28	32.00
05/19/96	15,210.00	1,505.18	98.96	1,460.16	96.00
05/20/96	16,530.00	2,162.79	130.84	1,619.94	98.00
05/21/96	17,900.00	2,845.03	158.94	3,508.40	196.00
05/22/96	16,600.00	1,475.91	88.91	1,792.80	108.00
05/23/96	23,630.00	5,923.80	250.69	2,268.48	96.00
05/24/96	26,140.00	3,561.58	136.25	3,973.28	152.00
05/25/96	20,430.00	4,498.48	220.19	2,901.06	142.00
05/26/96	21,260.00	4,756.93	223.75	2,211.04	104.00
05/27/96	16,000.00	3,852.00	240.75	1,408.00	88.00
05/28/96	19,610.00	4,692.87	239.31	1,490.36	76.00
05/29/96	19,560.00	4,514.64	230.81	2,347.20	120.00
05/30/96	19,820.00	3,803.06	191.88	1,704.52	86.00
05/31/96	17,970.00	3,857.98	214.69	1,868.88	104.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	530,500.00	110,296.75	5,917.10	52,520.84	2,868.53

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	17,112.90	3,557.96	190.87	1,694.22	92.53			

Flowdate	Comment
5/3/1996	DATA IS MONTHLY AVG.

Industry Location: GEO

June 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
06/01/96	18,100.00	5,055.51	279.31	2,099.60	116.00
06/02/96	20,270.00	7,580.98	374.00	2,027.00	100.00
06/03/96	17,630.00	4,508.87	255.75	1,798.26	102.00
06/04/96	19,730.00	8,740.39	443.00	1,381.10	70.00
06/05/96	19,480.00	5,824.52	299.00	1,948.00	100.00
06/06/96	16,400.00	3,763.80	229.50	1,016.80	62.00
06/07/96	17,500.00	4,190.20	239.44	1,155.00	66.00
06/08/96	17,960.00	4,326.20	240.88	1,867.84	104.00
06/09/96	19,220.00	5,362.38	279.00	961.00	50.00
06/10/96	21,280.00	5,830.72	274.00	1,872.64	88.00
06/11/96	20,030.00	5,101.44	254.69	1,482.22	74.00
06/12/96	20,220.00	4,354.98	215.38	2,547.72	126.00
06/13/96	18,260.00	5,131.06	281.00	1,716.44	94.00
06/14/96	19,160.00	4,659.52	243.19	1,379.52	72.00
06/15/96	23,610.00	6,008.75	254.50	1,747.14	74.00
06/16/96	18,300.00	5,244.05	286.56	2,781.60	152.00
06/17/96	16,750.00	4,706.75	281.00	1,206.00	72.00
06/18/96	18,430.00	737.20	40.00	921.50	50.00
06/19/96	19,240.00	4,943.53	256.94	1,500.72	78.00
06/20/96	18,150.00	5,045.70	278.00	1,306.80	72.00
06/21/96	18,410.00	6,112.12	332.00	2,246.02	122.00
06/22/96	21,910.00	4,976.42	227.13	3,768.52	172.00
06/23/96	19,840.00	6,388.48	322.00	2,261.76	114.00
06/24/96	20,560.00	6,620.32	322.00	1,850.40	90.00
06/25/96	26,440.00	6,482.82	245.19	1,480.64	56.00
06/26/96	26,170.00	5,006.58	191.31	1,727.22	66.00
06/27/96	18,200.00	2,648.10	145.50	1,783.60	98.00
06/28/96	18,120.00	2,833.61	156.38	2,101.92	116.00
06/29/96	22,080.00	5,939.52	269.00	4,106.88	186.00
06/30/96	22,760.00	5,813.81	255.44	4,506.48	198.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	594,210.00	153,938.34	7,771.09	58,550.34	2,940.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	19,807.00	5,131.28	259.04	1,951.68	98.00			

Flowdate	Comment

Industry Location: GEO

July 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
07/01/96	21,300.00	5,769.74	270.88	2,726.40	128.00
07/02/96	20,800.00	5,218.30	250.88	1,081.60	52.00
07/03/96	20,140.00	6,223.26	309.00	2,054.28	102.00
07/04/96	11,090.00	2,057.20	185.50	887.20	80.00
07/05/96	8,590.00	503.37	58.60	240.52	28.00
07/06/96	8,390.00	335.60	40.00	234.92	28.00
07/07/96	8,000.00	320.00	40.00	544.00	68.00
07/08/96	22,940.00	2,037.99	88.84	3,853.92	168.00
07/09/96	22,870.00	3,037.36	132.81	2,058.30	90.00
07/10/96	22,980.00	5,232.32	227.69	3,768.72	164.00
07/11/96	20,620.00	2,461.20	119.36	1,185.65	57.50
07/12/96	20,620.00			1,725.07	83.66
07/13/96	21,650.00	4,990.33	230.50	1,688.70	78.00
07/14/96	19,590.00	3,344.99	170.75	1,567.20	80.00
07/15/96	18,290.00	4,972.69	271.88	877.92	48.00
07/16/96	18,730.00	2,830.66	151.13	455.33	24.31
07/17/96	19,650.00	2,932.76	149.25	1,061.10	54.00
07/18/96	20,100.00	3,293.99	163.88	2,211.00	110.00
07/19/96	20,260.00	3,917.88	193.38	1,701.84	84.00
07/20/96	24,340.00	4,912.06	201.81	3,358.92	138.00
07/21/96	22,820.00	5,297.21	232.13	2,510.20	110.00
07/22/96	24,350.00	5,847.17	240.13	1,753.20	72.00
07/23/96	17,920.00	4,235.93	236.38	680.96	38.00
07/24/96	20,030.00	4,152.42	207.31	1,762.64	88.00
07/25/96	23,960.00	6,237.03	260.31	3,689.84	154.00
07/26/96	22,550.00	5,223.26	231.63	2,074.60	92.00
07/27/96	21,990.00	5,122.35	232.94	2,023.08	92.00
07/28/96	21,550.00	5,624.55	261.00	2,198.10	102.00
07/29/96	21,160.00	4,887.96	231.00	1,608.16	76.00
07/30/96	21,220.00	3,993.39	188.19	1,358.08	64.00
07/31/96	21,750.00	4,264.31	196.06	870.00	40.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	610,250.00	119,277.27	5,773.22	53,811.45	2,593.47

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg.	19,670.16	3,975.91	192.44	1,735.85	83.66			

Flowdate	Comment
7/12/1996	DATA IS MONTHLY AVG.

AUGUST REPORT FOR GEORGIA PACIFIC

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/96	20,700	239	4,946	60	1,242
08/02/96	19,340	141	2,734	70	1,354
08/03/96	22,440	155	3,484	124	2,783
08/04/96	24,920	246	6,141	112	2,791
08/05/96	24,300	224	5,452	84	2,041
08/06/96	23,360	206	4,800	86	2,009
08/07/96	22,610	205	4,631	80	1,809
08/08/96	27,510	153	4,219	94	2,586
08/09/96	23,790	223	5,301	82	1,951
08/10/96	26,870	216	5,802	94	2,526
08/11/96	21,400	230	4,930	84	1,798
08/12/96	21,580	250	5,395	104	2,244
08/13/96	25,120	248	6,230	74	1,859
08/14/96	22,000	161	3,552	82	1,804
08/15/96	21,840	187	4,081	88	1,922
08/16/96	23,760	201	4,782	74	1,758
08/17/96	21,150	194	4,098	78	1,650
08/18/96	21,460	236	5,055	58	1,245
08/19/96	22,860	210	4,804	72	1,646
08/20/96	23,250	219	5,092	78	1,814
08/21/96	25,890	185	4,782	100	2,589
08/22/96	21,040	157	3,305	68	1,431
08/23/96	22,200	249	5,531	74	1,643
08/24/96	22,800	220	5,016	120	2,736
08/25/96	22,280	213	4,744	124	2,763
08/26/96	23,830	248	5,902	102	2,431
08/27/96	25,530	198	5,042	78	1,991
08/28/96	22,830	250	5,716	90	2,055
08/29/96	23,550	203	4,775	94	2,214
08/30/96	22,600	248	5,601	102	2,305
08/31/96	22,610	235	5,319	96	2,171
	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly Total	715,420	6,550	151,262	2,726	63,157
Monthly Avg	23,078	211	4,879	88	2,037
Comments					

SEPTEMBER 1996

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/96	20,500	191	3,912	88	1,804
09/02/96	23,640	215	5,092	74	1,749
09/03/96	22,950	220	5,039	138	3,167
09/04/96	22,720	207	4,710	78	1,772
09/05/96	25,390	205	5,215	80	2,031
09/06/96	20,790	85	1,776	26	541
09/07/96	23,390	136	3,171	152	3,555
09/08/96	24,190	136	3,283	126	3,048
09/09/96	20,850	207	4,308	112	2,335
09/10/96	23,470	193	4,537	104	2,441
09/11/96	24,860	202	5,033	128	3,182
09/12/96	22,690	174	3,951	108	2,451
09/13/96	23,470	174	4,088	104	2,441
09/14/96	25,730	230	5,916	114	2,933
09/15/96	24,080	178	4,280	86	2,071
09/16/96	20,840	140	2,907	68	1,417
09/17/96	19,600	195	3,821	152	2,979
09/18/96	29,730	189	5,621	112	3,330
09/19/96	24,210	96	2,313	146	3,535
09/20/96	23,300	162	3,772	134	3,122
09/21/96	22,700	240	5,441	122	2,769
09/22/96	24,790	172	4,267	80	1,983
09/23/96	24,620	184	4,521	146	3,595
09/24/96	25,430	186	4,732	116	2,950
09/25/96	26,961	179	4,816	136	3,667
09/26/96	23,309	191	4,443	182	4,242
09/27/96	23,270	238	5,545	78	1,815
09/28/96	21,340	252	5,376	76	1,622
09/29/96	23,510	189	4,433	90	2,116
09/30/96	22,310	189	4,208	86	1,919

	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly Total	704,640	5,553	130,527	3,242	76,582
Monthly Avg	23,488	185	4,351	108	2,553
Comments:					

OCTOBER 1996

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/96	22,160	177	3,931	94	2,083
10/02/96	22,070	242	5,344	92	2,030
10/03/96	22,670	176	3,979	74	1,678
10/04/96	21,470	257	5,508	156	3,349
10/05/96	24,200	260	6,286	136	3,291
10/06/96	23,600	239	5,638	102	2,407
10/07/96	20,980	219	4,595	116	2,434
10/08/96	22,060	261	5,764	86	1,897
10/09/96	23,860	201	4,805	96	2,291
10/10/96	24,520	178	4,368	152	3,727
10/11/96	22,990	168	3,854	64	1,471
10/12/96	25,600	206	5,278	142	3,635
10/13/96	22,780	229	5,205	114	2,597
10/14/96	21,490	214	4,596	130	2,794
10/15/96	24,040	221	5,308	122	2,933
10/16/96	23,500	210	4,923	86	2,021
10/17/96	23,300	187	4,360	142	3,309
10/18/96	24,320	126	3,064	112	2,724
10/19/96	23,340	224	5,238	42	980
10/20/96	25,590	185	4,745	84	2,150
10/21/96	22,900	199	4,556	102	2,336
10/22/96	24,670	192	4,744	92	2,270
10/23/96	26,660	181	4,834	96	2,559
10/24/96	23,610	161	3,789	116	2,739
10/25/96	21,770	247	5,381	274	5,965
10/26/96	22,520	251	5,654	126	2,838
10/27/96	24,020	234	5,618	120	2,882
10/28/96	24,000	276	6,615	126	3,024
10/29/96	21,850	292	6,380	160	3,496
10/30/96	23,570	239	5,642	150	3,536
10/31/96	22,630	194	4,393	190	4,300

	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly Total	722,740	6,646	154,397	3,694	85,744
daily avg.	23,314	214	4,981	119	2,766
Comments:					

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/96	24,520	217	5310	152	3727
11/02/96	25,380	169	4283	104	2640
11/03/96	22,740	198	4495	146	3320
11/04/96	19,660	231	4541	173	3404
11/05/96	22,560	234	5275	172	3880
11/06/96	22,750	197	4470	182	4141
11/07/96	22,390	140	3127	106	2373
11/08/96	26,420	129	3398	100	2642
11/09/96	27,220	143	3889	162	4410
11/10/96	26,350	164	4328	146	3847
11/11/96	20,400	241	4916	192	3917
11/12/96	19,800	202	3996	140	2772
11/13/96	24,360	183	4459	114	2777
11/14/96	21,260	211	4489	192	4082
11/15/96	23,100	136	3142	100	2310
11/16/96	19,900	249	4964	194	3861
11/17/96	22,980	254	5834	152	3493
11/18/96	16,890	295	4983	162	2736
11/19/96	15,320	321	4918	136	2084
11/20/96	21,310	296	6308	124	2642
11/21/96	20,940	276	5782	138	2890
11/22/96	19,870	273	5427	128	2543
11/23/96	18,520	159	2945	68	1259
11/24/96	20,750	216	4482	132	2739
11/25/96	20,950	216	4525	166	3478
11/26/96	21,740	216	4696	128	2783
11/27/96	21,260	216	4592	117	2478
11/28/96	23,010	216	4970	300	6896
11/29/96	21,700	216	4687	186	4047
11/30/96	22,700	264	6003	200	4535

	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly total	656,750	6,477	139,234	4,512	98,705
Daily avg.	21,892	216	4,641	150	3,290
Comments:	11/24 - 11/29 = BOD's monthly avg. (results not good due to to bad distilled water.)				

DECEMBER 1996

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/96	19,800	350	6930	202	4000
12/02/96	19,760	353	6975	115	2272
12/03/96	21,300	349	7434	153	3248
12/04/96	21,790	324	7060	145	3160
12/05/96	21,070	295	6216	128	2686
12/06/96	20,740	292	6052	112	2323
12/07/96	19,040	317	6036	180	3427
12/08/96	21,680	297	6439	146	3165
12/09/96	22,000	346	7612	170	3740
12/10/96	20,640	262	5417	174	3591
12/11/96	21,560	232	5009	100	2156
12/12/96	22,460	149	3341	160	3594
12/13/96	20,130	164	3293	138	2778
12/14/96	21,760	279	6071	147	3199
12/15/96	20,860	222	4637	18	375
12/16/96	20,310	282	5717	100	2031
12/17/96	19,650	292	5738	172	3380
12/18/96	20,730	351	7276	124	2571
12/19/96	23,010	290	6664	160	3682
12/20/96	23,740	311	7373	138	3276
12/21/96	23,410	215	5035	114	2669
12/22/96	20,560	203	4175	204	4194
12/23/96	21,990	287	6311	216	4750
12/24/96	22,310	249	5555	220	4908
12/25/96	22,000	317	6974	192	4224
12/26/96	21,890	214	4686	96	2101
12/27/96	21,030	303	6372	195	4101
12/28/96	22,460	353	7928	176	3953
12/29/96	19,090	297	5670	134	2558
12/30/96	21,250	263	5593	76	1615
12/31/96	19,470	199	3868	160	3115

	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly total	657,490	8,656	183,457	4,564	96,842
Daily avg.	21,209	279	5,918	147	3,124
Comments:	12/14/96 - AVG. EST. NO SAMPLE				

MIN	19040	148.75	3293.067	18	375.48
MAX	23740	353	7928.38	220	4908.2

1997

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/97	18,840	257	4847	390	7348
01/02/97	21,040	228	4796	220	4629
01/03/97	19,700	225	4437	76	1497
01/04/97	23,000	364	8372	154	3542
01/05/97	20,260	333	6747	130	2634
01/06/97	17,160	286	4908	152	2608
01/07/97	20,990	279	5852	116	2435
01/08/97	20,580	317	6524	134	2758
01/09/97	21,010	252	5297	136	2857
01/10/97	20,220	321	6491	160	3235
01/11/97	21,600	276	5970	165	3564
01/12/97	17,200	206	3549	160	2752
01/13/97	13,880	240	3327	154	2144
01/14/97	13,530	285	3859	104	1407
01/15/97	19,520	305	5954	178	3465
01/16/97	21,880	272	5953	164	3588
01/17/97	20,280	272	5525	176	3579
01/18/97	12,980	277	3594	92	1194
01/19/97	14,600	771	11257	256	3738
01/20/97	16,420	359	5895	166	2726
01/21/97	21,900	344	7534	198	4336
01/22/97	23,670	264	6259	138	3266
01/23/97	21,600	247	5335	160	3456
01/24/97	22,250	282	6275	158	3516
01/25/97	21,240	269	5718	256	5437
01/26/97	22,510	221	4969	233	5247
01/27/97	21,240	213	4527	70	1487
01/28/97	20,500	275	5634	152	3116
01/29/97	21,510	267	5734	136	2925
01/30/97	22,590	205	4631	90	2033
01/31/97	18,400	279	5130	138	2539
	Flow, m3	**BOD, mg/L**	**BOD, kg**	**TSS, mg/L**	**TSS, kg**
Monthly Tota	612,100	8,992	174,896	5,013	99,059
daily avg.	19,745	290	5,642	162	3,195
Comments:					
MIN	**12980**	**205**	**3327**	**70**	**1194**
MAX	**23670**	**771**	**11257**	**390**	**7348**

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, kg/L
02/01/97	26,450	284	7,509	200	5,285	90	2,378
02/02/97	21,300	260	5,545	236	5,027	84	1,789
02/03/97	18,760	234	4,393	160	3,002	66	1,238
02/04/97	21,000	248	5,213	128	2,688	46	966
02/05/97	20,430	271	5,533	164	3,351	70	1,430
02/06/97	21,320	213	4,531	120	2,558	44	938
02/07/97	22,460	250	5,621	150	3,369	62	1,393
02/08/97	21,620	239	5,174	172	3,719	78	1,686
02/09/97	21,000	270	5,662	154	3,234	70	1,470
02/10/97	22,810	208	4,752	110	2,509	38	867
02/11/97	21,960	294	6,456	170	3,733	62	1,362
02/12/97	22,370	318	7,114	150	3,356	52	1,163
02/13/97	20,000	187	3,749	128	2,560	34	680
02/14/97	20,330	179	3,634	116	2,358	58	1,179
02/15/97	20,110	170	3,416	94	1,890	36	724
02/16/97	20,450	213	4,365	120	2,454	52	1,063
02/17/97	22,360	198	4,433	106	2,370	50	1,118
02/18/97	21,240	212	4,512	104	2,209	40	850
02/19/97	21,200	240	5,092	134	2,841	70	1,484
02/20/97	18,760	213	4,004	82	1,538	38	713
02/21/97	22,160	278	6,167	98	2,172	36	798
02/22/97	23,020	323	7,435	106	2,440	38	875
02/23/97	20,030	241	4,820	174	3,485	88	1,763
02/24/97	18,770	223	4,176	108	2,027	32	601
02/25/97	21,520	223	4,804	104	2,238	34	732
02/26/97	20,920	202	4,226	166	3,473	66	1,381
02/27/97	26,080	274	7,149	102	2,660	50	1,304
02/28/97	23,450	217	5,090	152	3,564	66	1,548

GEO	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg		
Monthly Total	601,880	6,684	144,575	3,808	82,110	1,550	33,491
daily avg.	21,496	239	5,163	136	2,932	55	1,196
Comments:							

MIN	**18,760**	**170**	**3,416**	**82**	**1,538**	**32**	**601**
MAX	**26,450**	**323**	**7,509**	**236**	**5,285**	**90**	**2,378**

Industrial User Monthly Billing Information for MARCH 1997

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/97	24,380	224	5,458	92	2,243
03/02/97	23,800	230	5,479	84	1,999
03/03/97	20,450	192	3,928	156	3,190
03/04/97	21,640	253	5,465	124	2,683
03/05/97	23,650	223	5,281	108	2,554
03/06/97	22,150	193	4,278	108	2,392
03/07/97	20,730	223	4,620	136	2,819
03/08/97	19,170	251	4,807	132	2,530
03/09/97	19,670	264	5,192	102	2,006
03/10/97	22,000	252	5,544	122	2,684
03/11/97	20,000	216	4,313	128	2,560
03/12/97	20,030	288	5,771	108	2,163
03/13/97	19,460	198	3,849	52	1,012
03/14/97	24,590	143	3,514	92	2,262
03/15/97	21,330	236	5,027	144	3,072
03/16/97	23,360	237	5,529	130	3,037
03/17/97	22,420	253	5,670	138	3,094
03/18/97	20,800	251	5,221	112	2,330
03/19/97	23,810	269	6,405	102	2,429
03/20/97	25,880	220	5,686	134	3,468
03/21/97	31,800	161	5,116	96	3,053
03/22/97	26,300	199	5,227	214	5,628
03/23/97	22,200	255	5,661	160	3,552
03/24/97	17,010	281	4,780	124	2,109
03/25/97	21,290	263	5,603	136	2,895
03/26/97	19,560	210	4,105	110	2,152
03/27/97	20,730	171	3,537	98	2,032
03/28/97	20,800	226	4,697	116	2,413
03/29/97	19,010	264	5,019	72	1,369
03/30/97	19,030	215	4,086	114	2,169
03/31/97	20,500	198	4,068	132	2,706

GEO	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly Total	677,550	7,056	152,935	3,676	80,606
daily avg.	21,856	228	4,933	119	2,600
Comments:					

04/21/97

Industrial User Monthly Billing Information for MARCH 1997

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/97	20,365	234	4,756	128	2,607
04/02/97	20,700	217	4,491	111	2,298
04/03/97	23,030	233	5,357	130	2,994
04/04/97	23,160	243	5,638	98	2,270
04/05/97	20,160	226	4,547	168	3,387
04/06/97	20,000	222	4,446	118	2,360
04/07/97	21,500	219	4,699	104	2,236
04/08/97	23,081	204	4,707	118	2,724
04/09/97	24,456	161	3,934	102	2,495
04/10/97	21,210	262	5,564	118	2,503
04/11/97	24,341	269	6,554	60	1,460
04/12/97	27,403	212	5,816	178	4,878
04/13/97	24,626	208	5,115	144	3,546
04/14/97	26,420	233	6,161	130	3,435
04/15/97	26,211	164	4,285	156	4,089
04/16/97	25,170	211	5,314	156	3,927
04/17/97	24,013	210	5,047	148	3,554
04/18/97	22,497	306	6,884	108	2,430
04/19/97	19,764	285	5,633	108	2,135
04/20/97	23,525	281	6,611	160	3,764
04/21/97	23,081	98	2,257	72	1,662
04/22/97	7,398	32	237	236	1,746
04/23/97	8,034	40	321	1,190	9,560
04/24/97	479	40	19	324	155
04/25/97	9,545	190	1,814	169	1,613
04/26/97	25,670	81	2,071	127	3,248
04/27/97	16,645	79	1,308	56	932
04/28/97	18,126	40	725	92	1,668
04/29/97	22,381	204	4,557	130	2,910
04/30/97	23,852	286	6,822	130	3,101

GEO	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg
Monthly Tota	616,843	5,688	125,692	5,069	85,683
daily avg.	20,561	190	4,190	169	2,856
Comments:	4-8-97 Estimate flow totalizer reset, 4-21-97 reset again. 4-23-97 flow has clarifier volume added, flow was by passing the meter. Clarifier was down from 4-21-97 to4-25-97.				

05/09/97

INDUSTRIAL USER MONTHLY BILLING INFORMATION FOR MAY 1997

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
05/01/97	21,460	242	5,193	112	2,404	52	1,116
05/02/97	20,539	281	5,771	144	2,958	60	1,232
05/03/97	20,386	357	7,278	118	2,395	50	1,019
05/04/97	20,093	343	6,892	100	2,009	46	924
05/05/97	19,096	275	5,251	48	917	40	764
05/06/97	23,926	173	4,145	32	766	28	670
05/07/97	22,673	225	5,096	58	1,315	36	816
05/08/97	18,344	257	4,714	32	587	24	440
05/09/97	19,398	237	4,597	52	1,009	40	776
05/10/97	20,411	237	4,837	62	1,265	36	735
05/11/97	20,808	244	5,077	56	1,165	32	666
05/12/97	22,361	232	5,177	68	1,521	28	626
05/13/97	22,118	237	5,241	72	1,592	48	1,062
05/14/97	23,043	216	4,977	64	1,475	36	830
05/15/97	20,694	251	5,184	104	2,152	44	911
05/16/97	22,480	286	6,429	88	1,978	34	764
05/17/97	20,330	330	6,709	155	3,151	58	1,169
05/18/97	19,904	321	6,389	156	3,105	60	1,194
05/19/97	21,104	274	5,782	96	2,026	38	802
05/20/97	20,363	259	5,265	148	3,014	60	1,222
05/21/97	25,068	155	3,883	184	4,613	64	1,604
05/22/97	21,362	258	5,520	110	2,350	48	1,025
05/23/97	20,287	262	5,321	82	1,664	34	690
05/24/97	23,595	236	5,561	88	2,076	36	849
05/25/97	21,911	230	5,041	120	2,627	50	1,094
05/26/97	22,989	258	5,934	160	3,678	72	1,655
05/27/97	19,348	245	4,738	120	2,322	42	813
05/28/97	23,082	183	4,233	84	1,939	34	785
05/29/97	26,396	141	3,712	128	3,379	52	1,373
05/30/97	21,710	195	4,233	133	2,892	50	1,084
05/31/97	19,940	250	4,976	124	2,473	44	877

GT	Flow, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg	VSS, mg/L	PT, kg/L
Monthly Tota	665,219	7,688	163,158	3,098	66,814	1,375	29,588
daily avg.	21,459	248	5,263	100	2,155	44	954
Comments:							

MIN	18,344	141	3,712	32	587	24	440
MAX	26,396	357	7,278	184	4,613	72	1,655

06/09/97

INDUSTRIAL USER MONTHLY BILLING INFORMATION FOR JUNE 1997

DATE	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
06/01/97	20,353	242	4,925	117	2,372	67	1,356
06/02/97	20,653	222	4,577	88	1,817	36	744
06/03/97	21,179	220	4,665	130	2,751	53	1,128
06/04/97	20,591	206	4,248	396	8,160	140	2,880
06/05/97	18,929	343	6,493	167	3,152	47	882
06/06/97	20,087	291	5,850	157	3,144	63	1,271
06/07/97	20,330	248	5,042	140	2,846	70	1,423
06/08/97	20,132	258	5,199	135	2,718	40	805
06/09/97	20,200	255	5,151	86	1,737	32	646
06/10/97	20,190	215	4,337	90	1,815	47	941
06/11/97	21,237	198	4,197	64	1,359	24	510
06/12/97	20,774	164	3,397	78	1,620	30	623
06/13/97	24,433	184	4,487	90	2,199	42	1,026
06/14/97	19,847	167	3,318	104	2,064	42	834
06/15/97	18,590	221	4,104	82	1,524	36	669
06/16/97	20,479	247	5,063	88	1,802	30	614
06/17/97	20,921	343	7,176	112	2,343	44	921
06/18/97	25,702	232	5,971	230	5,911	90	2,313
06/19/97	19,569	246	4,817	62	1,213	18	352
06/20/97	22,857	259	5,910	110	2,514	46	1,051
06/21/97	20,370	273	5,566	122	2,485	80	1,630
06/22/97	19,984	260	5,196	96	1,918	42	839
06/23/97	21,385	225	4,809	88	1,882	40	855
06/24/97	20,690	277	5,731	106	2,193	60	1,241
06/25/97	18,547	180	3,343	70	1,298	42	779
06/26/97	20,056	286	5,742	73	1,469	30	601
06/27/97	20,562	291	5,981	97	1,986	40	822
06/28/97	19,215	236	4,541	93	1,792	43	832
06/29/97	19,967	267	5,335	100	1,995	43	864
06/30/97	21,042	222	4,677	98	2,052	45	947

	GEO, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
Monthly total	618,871	7,279	149,847	3,467	72,133	1,462	30,401
Daily avg.	20,629	243	4,995	116	2,404	49	1,013
comments							

MIN	18,547	164	3,318	62	1,213	18	352
MAX	25,702	343	7,176	396	8,160	140	2,880

07/14/97

Monthly Georgia Pacific Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
07/01/97	20,077	297	5,963	90	1,807	x	x	
07/02/97	20,622	241	4,967	70	1,444	x	x	
07/03/97	18,279	216	3,944	80	1,462	x	x	
07/04/97	8,276	211	1,746	68	559	x	x	
07/05/97	7,868	72	568	12	94	x	x	
07/06/97	12,650	62	779	20	253	x	x	
07/07/97	27,731	144	3,999	68	1,886	x	x	
07/08/97	20,947	232	4,868	86	1,801	x	x	
07/09/97	20,317	200	4,053	88	1,788	x	x	
07/10/97	20,171	200	4,034	76	1,533	x	x	
07/11/97	21,173	206	4,355	68	1,440	x	x	
07/12/97	20,494	251	5,136	70	1,435	x	x	
07/13/97	19,818	188	3,721	90	1,784	x	x	
07/14/97	19,950	233	4,643	80	1,596	x	x	
07/15/97	19,760	224	4,425	68	1,344	x	x	
07/16/97	19,136	179	3,424	50	957	x	x	
07/17/97	19,127	203	3,885	44	842	x	x	
07/18/97	21,000	264	5,544	94	1,974	x	x	
07/19/97	18,853	257	4,845	78	1,471	x	x	
07/20/97	18,647	312	5,818	82	1,529	x	x	
07/21/97	19,934	229	4,560	102	2,033	x	x	
07/22/97	20,770	224	4,659	114	2,368	x	x	
07/23/97	18,224	182	3,321	106	1,932	x	x	
07/24/97	19,742	215	4,238	90	1,777	x	x	
07/25/97	19,961	210	4,197	90	1,796	x	x	
07/26/97	20,296	259	5,264	130	2,638	x	x	
07/27/97	21,233	163	3,456	114	2,421	x	x	
07/28/97	20,017	170	3,403	100	2,002	x	x	
07/29/97	19,311	198	3,820	126	2,433	x	x	
07/30/97	19,850	189	3,752	88	1,747	x	x	
07/31/97	20,076	262	5,260	132	2,650	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
July Total	594,310	6,492	126,649	2,574	50,793	x	x	
July Daily Avg.	19,171	209	4,085	83	1,638	x	x	

Monthly Georgia Pacific Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
08/01/97	21,892	276	6,048	128	2,802	x	x	
08/02/97	20,363	262	5,338	132	2,688	x	x	
08/03/97	21,182	228	4,835	102	2,161	x	x	
08/04/97	23,277	208	4,836	96	2,235	x	x	
08/05/97	23,748	189	4,488	100	2,375	x	x	
08/06/97	18,835	183	3,439	118	2,223	x	x	
08/07/97	20,309	206	4,185	142	2,884	x	x	
08/08/97	22,069	240	5,305	98	2,163	x	x	
08/09/97	19,161	253	4,844	124	2,376	x	x	
08/10/97	20,741	220	4,564	84	1,742	x	x	
08/11/97	15,812	65	1,032	80	1,265	x	x	
08/12/97	20,309	181	3,681	118	2,396	x	x	
08/13/97	20,248	270	5,476	146	2,956	x	x	
08/14/97	19,505	258	5,032	106	2,068	x	x	
08/15/97	21,673	345	7,477	126	2,731	x	x	
08/16/97	17,431	274	4,777	126	2,196	x	x	
08/17/97	20,890	189	3,949	90	1,880	x	x	
08/18/97	22,155	209	4,621	102	2,260	x	x	
08/19/97	22,924	206	4,722	88	2,017	x	x	
08/20/97	21,878	209	4,563	62	1,356	x	x	
08/21/97	23,467	189	4,446	90	2,112	x	x	
08/22/97	25,905	153	3,967	80	2,072	x	x	
08/23/97	29,664	137	4,057	96	2,848	x	x	
08/24/97	30,007	135	4,055	70	2,100	x	x	
08/25/97	21,709	196	4,260	106	2,301	x	x	
08/26/97	22,445	199	4,464	106	2,379	x	x	
08/27/97	22,840	199	4,538	176	4,020	x	x	
08/28/97	25,184	202	5,093	128	3,224	x	x	
08/29/97	24,810	193	4,791	94	2,332	x	x	
08/30/97	24,646	202	4,971	122	3,007	x	x	
08/31/97	24,532	176	4,324	90	2,208	x	x	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Aug Total	689,611	6,453	142,178	3,326	73,377	x	x	
Aug Daily Avg.	22,246	208	4,586	107	2,367	x	x	

Monthly Georgia Pacific Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
09/01/97	21,260	186	3,954	84	1,786	x	x	
09/02/97	20,410	191	3,901	102	2,082	x	x	
09/03/97	21,010	177	3,727	90	1,891	x	x	
09/04/97	19,510	176	3,424	100	1,951	x	x	
09/05/97	22,660	167	3,786	144	3,263	x	x	
09/06/97	20,470	204	4,168	118	2,415	x	x	
09/07/97	21,040	158	3,322	102	2,146	x	x	
09/08/97	21,310	159	3,388	98	2,088	x	x	
09/09/97	22,020	216	4,756	96	2,114	x	x	
09/10/97	19,460	193	3,763	98	1,907	x	x	
09/11/97	15,200	315	4,788	138	2,098	x	x	
09/12/97	26,000	258	6,708	120	3,120	x	x	
09/13/97	21,020	207	4,351	133	2,800	x	x	
09/14/97	20,740	233	4,823	160	3,318	x	x	
09/15/97	21,130	234	4,954	122	2,578	x	x	
09/16/97	21,480	269	5,778	126	2,706	x	x	
09/17/97	21,260	278	5,910	118	2,509	x	x	
09/18/97	20,100	269	5,407	100	2,010	x	x	
09/19/97	22,020	315	6,936	120	2,642	x	x	
09/20/97	20,850	240	5,003	80	1,668	x	x	
09/21/97	22,760	247	5,622	84	1,912	x	x	
09/22/97	20,460	159	3,262	98	2,005	x	x	
09/23/97	20,820	253	5,260	122	2,540	x	x	
09/24/97	19,520	309	6,028	74	1,444	x	x	
09/25/97	19,760	211	4,171	116	2,292	x	x	
09/26/97	19,820	222	4,403	94	1,863	x	x	
09/27/97	18,090	347	6,277	150	2,714	x	x	
09/28/97	18,960	267	5,062	104	1,972	x	x	
09/29/97	19,350	278	5,379	114	2,206	x	x	
09/30/97	18,900	258	4,876	96	1,814	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Sep Total	617,390	6,996	143,188	3,301	67,855	0	0	
Sep Daily Avg.	20,580	233	4,773	110	2,262	0	0	

Monthly Georgia Pacific Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
09/01/97	21,260	186	3,954	84	1,786	x	x	
09/02/97	20,410	191	3,901	102	2,082	x	x	
09/03/97	21,010	177	3,727	90	1,891	x	x	
09/04/97	19,510	176	3,424	100	1,951	x	x	
09/05/97	22,660	167	3,786	144	3,263	x	x	
09/06/97	20,470	204	4,168	118	2,415	x	x	
09/07/97	21,040	158	3,322	102	2,146	x	x	
09/08/97	21,310	159	3,388	98	2,088	x	x	
09/09/97	22,020	216	4,756	96	2,114	x	x	
09/10/97	19,460	193	3,763	98	1,907	x	x	
09/11/97	15,200	315	4,788	138	2,098	x	x	
09/12/97	26,000	258	6,708	120	3,120	x	x	
09/13/97	21,020	207	4,351	133	2,800	x	x	
09/14/97	20,740	233	4,823	160	3,318	x	x	
09/15/97	21,130	234	4,954	122	2,578	x	x	
09/16/97	21,480	269	5,778	126	2,706	x	x	
09/17/97	21,260	278	5,910	118	2,509	x	x	
09/18/97	20,100	269	5,407	100	2,010	x	x	
09/19/97	22,020	315	6,936	120	2,642	x	x	
09/20/97	20,850	240	5,003	80	1,668	x	x	
09/21/97	22,760	247	5,622	84	1,912	x	x	
09/22/97	20,460	159	3,262	98	2,005	x	x	
09/23/97	20,820	253	5,260	122	2,540	x	x	
09/24/97	19,520	309	6,028	74	1,444	x	x	
09/25/97	19,760	211	4,171	116	2,292	x	x	
09/26/97	19,820	222	4,403	94	1,863	x	x	
09/27/97	18,090	347	6,277	150	2,714	x	x	
09/28/97	18,960	267	5,062	104	1,972	x	x	
09/29/97	19,350	278	5,379	114	2,206	x	x	
09/30/97	18,900	258	4,876	96	1,814	x	x	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Sep Total	617,390	6,996	143,188	3,301	67,855	0	0	
Sep Daily Avg.	20,580	233	4,773	110	2,262	0	0	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Jan Monthly Total	612,100	8,992	174,896	5,013	99,059	x	x	
Feb Monthly Total	601,880	6,682	144,528	3,808	82,115	x	x	
Mar Monthly Total	677,550	7,059	152,992	3,676	80,606	x	x	
Apr Monthly Total	616,843	5,690	125,733	5,069	85,695	x	x	
May Monthly Total	665,219	7,690	163,194	3,098	66,823	x	x	
Jun Monthly Total	618,871	4,023	82,229	2,743	57,479	x	x	
Jul Monthly Total	594,310	6,492	126,649	2,574	50,793	x	x	
Aug Monthly Total	689,611	6,453	142,178	3,326	73,377	x	x	
Sep Monthly Total	617,390	6,996	143,188	3,301	67,855	x	x	
Oct Monthly Total								
Nov Monthly Total								
Dec Monthly Total								
YTD Total	5,693,774	60,077	1,255,587	32,607	663,801	x	x	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Jan Daily Avg.	19,745	290	5,642	162	3,195	x	x	
Feb Daily Avg.	21,496	239	5,162	136	2,933	x	x	
Mar Daily Avg.	21,856	228	4,935	119	2,600	x	x	
Apr Daily Avg.	20,561	190	4,191	169	2,856	x	x	
May Daily Avg.	21,459	248	5,264	100	2,156	x	x	
Jun Daily Avg.	20,629	237	2,741	125	1,916	x	x	
Jul Daily Avg.	19,171	209	4,085	83	1,638	x	x	
Aug Daily Avg.	22,246	208	4,586	107	2,367	x	x	
Sep Daily Avg.	20,580	233	4,773	110	2,262	x	x	
Oct Daily Avg.								
Nov Daily Avg.								
Dec Daily Avg.								
YTD Daily Avg.	20,856	220	4,599	119	2,432	x	x	

Monthly Georgia Pacific Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
10/01/97	18,750	273	5,120	96	1,800	x	x	
10/02/97	20,300	229	4,649	132	2,680	x	x	
10/03/97	19,400	284	5,510	126	2,444	x	x	
10/04/97	20,420	320	6,534	134	2,736	x	x	
10/05/97	17,630	40	705	90	1,587	x	x	
10/06/97	21,030	245	5,162	86	1,809	x	x	
10/07/97	20,450	217	4,433	124	2,536	x	x	
10/08/97	26,510	182	4,817	110	2,916	x	x	
10/09/97	19,640	254	4,989	154	3,025	x	x	
10/10/97	20,680	308	6,369	102	2,109	x	x	
10/11/97	20,680	263	5,438	104	2,151	x	x	
10/12/97	20,680	225	4,648	170	3,516	x	x	
10/13/97	19,400	249	4,833	104	2,018	x	x	
10/14/97	19,320	257	4,965	124	2,396	x	x	
10/15/97	19,720	186	3,669	108	2,130	x	x	
10/16/97	22,470	216	4,842	158	3,550	x	x	
10/17/97	18,620	239	4,458	130	2,421	x	x	
10/18/97	19,660	260	5,102	102	2,005	x	x	
10/19/97	19,660	322	6,331	102	2,005	x	x	
10/20/97	18,780	318	5,972	98	1,840	x	x	
10/21/97	19,350	302	5,844	98	1,896	x	x	
10/22/97	18,740	348	6,522	110	2,061	x	x	
10/23/97	19,950	194	3,876	80	1,596	x	x	
10/24/97	17,810	151	2,683	82	1,460	x	x	
10/25/97	18,990	188	3,570	84	1,595	x	x	
10/26/97	19,410	199	3,868	86	1,669	x	x	
10/27/97	18,620	187	3,475	92	1,713	x	x	
10/28/97	19,610	164	3,219	128	2,510	x	x	
10/29/97	18,820	171	3,212	110	2,070	x	x	
10/30/97	20,070	161	3,238	160	3,211	x	x	
10/31/97	19,700	199	3,918	170	3,349	x	x	
GEO PAC	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Oct Total	614,870	7,150	141,968	3,554	70,805	0	0	
Oct Daily Avg.	19,835	231	4,580	115	2,284	0	0	

Monthly Georgia Pacific Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
11/01/97	22,000	202	4,443	128	2,816	x	x	
11/02/97	19,930	183	3,638	68	1,355	x	x	
11/03/97	21,820	182	3,978	78	1,702	x	x	
11/04/97	22,230	144	3,196	110	2,445	x	x	
11/05/97	20,090	159	3,192	80	1,607	x	x	
11/06/97	21,770	107	2,329	212	4,615	x	x	
11/07/97	21,430	150	3,219	182	3,900	x	x	
11/08/97	21,240	175	3,720	164	3,483	x	x	
11/09/97	19,500	160	3,117	110	2,145	x	x	
11/10/97	20,670	190	3,931	70	1,447	x	x	
11/11/97	25,710	143	3,675	140	3,599	x	x	
11/12/97	21,780	124	2,699	92	2,004	x	x	
11/13/97	20,630	170	3,498	70	1,444	x	x	
11/14/97	19,820	156	3,096	94	1,863	x	x	
11/15/97	19,800	162	3,202	118	2,336	x	x	
11/16/97	23,850	101	2,418	80	1,908	x	x	
11/17/97	21,900	129	2,829	82	1,796	x	x	
11/18/97	22,500	178	4,002	90	2,025	x	x	
11/19/97	20,410	139	2,839	124	2,531	x	x	
11/20/97	20,130	203	4,076	84	1,691	x	x	
11/21/97	22,330	217	4,843	82	1,831	x	x	
11/22/97	25,400	144	3,655	108	2,743	x	x	
11/23/97	19,910	197	3,917	165	3,285	x	x	
11/24/97	20,400	219	4,469	136	2,774	x	x	
11/25/97	21,260	228	4,846	153	3,257	x	x	
11/26/97	21,060	128	2,692	126	2,654	x	x	
11/27/97	20,270	192	3,882	124	2,513	x	x	
11/28/97	23,320	199	4,647	96	2,239	x	x	
11/29/97	20,280	187	3,782	116	2,352	x	x	
11/30/97	25,280	118	2,977	116	2,932	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Nov Total	646,720	4,984	106,806	3,398	73,295	0	0	
Nov Daily Avg.	21,557	166	3,560	113	2,443	0	0	

Monthly Georgia Pacific Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
12/01/97	26,360	98	2,571	78	2,056	x	x	
12/02/97	28,490	140	3,975	156	4,444	x	x	
12/03/97	22,850	108	2,456	137	3,120	x	x	
12/04/97	19,820	154	3,053	120	2,378	x	x	
12/05/97	21,250	184	3,920	130	2,763	x	x	
12/06/97	20,240	162	3,283	104	2,105	x	x	
12/07/97	21,500	138	2,960	138	2,967	x	x	
12/08/97	24,560	193	4,742	208	5,108	x	x	
12/09/97	23,320	214	5,001	170	3,964	x	x	
12/10/97	21,660	189	4,094	156	3,379	x	x	
12/11/97	23,630	215	5,072	110	2,599	x	x	
12/12/97	22,850	233	5,316	110	2,514	x	x	
12/13/97	27,040	231	6,255	235	6,354	x	x	
12/14/97	20,350	190	3,867	140	2,849	x	x	
12/15/97	22,100	213	4,713	144	3,182	x	x	
12/16/97	21,060	169	3,557	84	1,769	x	x	
12/17/97	22,360	142	3,171	60	1,342	x	x	
12/18/97	20,480	198	4,063	104	2,130	x	x	
12/19/97	20,930	217	4,534	90	1,884	x	x	
12/20/97	20,540	212	4,351	122	2,506	x	x	
12/21/97	20,380	273	5,566	116	2,364	x	x	
12/22/97	28,700	203	5,833	138	3,961	x	x	
12/23/97	25,170	214	5,380	100	2,517	x	x	
12/24/97	17,900	126	2,255	54	967	x	x	
12/25/97	14,850	40	594	24	356	x	x	
12/26/97	26,740	66	1,765	162	4,332	x	x	
12/27/97	22,520	168	3,792	130	2,928	x	x	
12/28/97	27,100	176	4,770	124	3,360	x	x	samp plugged
12/29/97	25,530	191	4,873	122	3,115	x	x	
12/30/97	26,970	198	5,345	134	3,614	x	x	
12/31/97	26,350	202	5,316	134	3,531	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Dec Total	713,600	5,456	126,440	3,834	90,458	0	0	
Dec Daily Avg.	23,019	176	4,079	124	2,918	0	0	

1998

		Georgia Pacific Billing				
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
01/01/98	23,700	184	4,367	168	3,982	
01/02/98	25,780	187	4,814	130	3,351	
01/03/98	27,610	188	5,192	166	4,583	
01/04/98	25,200	186	4,697	144	3,629	
01/05/98	26,320	166	4,373	156	4,106	
01/06/98	25,250	202	5,099	160	4,040	
01/07/98	26,790	162	4,330	168	4,501	
01/08/98	27,250	209	5,688	166	4,524	
01/09/98	27,160	227	6,165	204	5,541	
01/10/98	28,210	201	5,679	126	3,554	
01/11/98	32,750	194	6,339	280	9,170	
01/12/98	31,910	183	5,852	442	14,104	
01/13/98	33,160	159	5,272	206	6,831	
01/14/98	24,450	174	4,245	196	4,792	
01/15/98	26,470	188	4,965	212	5,612	
01/16/98	25,430	155	3,941	174	4,425	
01/17/98	26,810	177	4,737	200	5,362	
01/18/98	27,110	167	4,534	204	5,530	
01/19/98	25,410	174	4,421	198	5,031	
01/20/98	25,830	167	4,323	172	4,443	
01/21/98	24,680	164	4,045	176	4,344	
01/22/98	27,540	200	5,515	213	5,869	
01/23/98	29,670	186	5,508	206	6,112	
01/24/98	26,180	221	5,796	208	5,445	
01/25/98	23,000	198	4,547	182	4,186	
01/26/98	24,360	157	3,828	142	3,459	
01/27/98	24,660	203	4,997	140	3,452	
01/28/98	24,150	198	4,785	126	3,043	
01/29/98	25,750	227	5,849	144	3,708	
01/30/98	26,720	233	6,229	98	2,619	
01/31/98	26,440	270	7,127	232	6,134	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
JAN Monthly Total	825,750	5,906	157,258	5,739	155,482	
JAN Daily Avg.	26,637	191	5,073	185	5,016	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	825,750	5,906	157,258	5,739	155,482	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	2,262	16	431	16	426	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
01/01/98	6 262	184	9,622	168	8,773	68	3,551	100	5,222	
01/02/98	6.811	187	10,608	130	7,385	64	3,635	66	3,749	
01/03/98	7.295	188	11,441	166	10,099	52	3,164	114	6,935	
01/04/98	6 658	186	10,349	144	7,996	38	2,110	106	5,886	
01/05/98	6.954	166	9,635	156	9,047	56	3,248	100	5,799	
01/06/98	6.671	202	11,235	160	8,902	54	3,004	106	5,897	
01/07/98	7.078	162	9,541	168	9,917	66	3,896	102	6,021	
01/08/98	7.199	209	12,534	166	9,967	34	2,041	132	7,926	
01/09/98	7.176	227	13,585	204	12,208	54	3,232	150	8,977	
01/10/98	7.453	201	12,513	126	7,832	22	1,367	104	6,465	
01/11/98	8.653	194	13,968	280	20,205	74	5,340	206	14,865	
01/12/98	8.431	183	12,894	442	31,078	90	6,328	352	24,750	
01/13/98	8 761	159	11,617	206	15,052	58	4,238	148	10,814	
01/14/98	6 460	174	9,354	196	10,559	60	3,232	136	7,327	
01/15/98	6 993	188	10,939	212	12,365	62	3,616	150	8,749	
01/16/98	6 719	155	8,683	174	9,750	58	3,250	116	6,500	
01/17/98	7 083	177	10,438	200	11,815	58	3,426	142	8,388	
01/18/98	7 162	167	9,991	204	12,186	82	4,898	122	7,288	
01/19/98	6.713	174	9,742	198	11,086	60	3,359	138	7,726	
01/20/98	6 824	167	9,526	172	9,789	56	3,187	116	6,602	
01/21/98	6.520	164	8,912	176	9,571	52	2,828	124	6,743	
01/22/98	7.276	200	12,152	213	12,933	57	3,435	157	9,497	
01/23/98	7 839	186	12,136	206	13,467	54	3,530	152	9,937	
01/24/98	6.917	221	12,770	208	11,999	48	2,769	160	9,230	
01/25/98	6.077	198	10,019	182	9,224	66	3,345	116	5,879	
01/26/98	6.436	157	8,434	142	7,622	50	2,684	92	4,938	
01/27/98	6 515	203	11,010	140	7,607	48	2,608	92	4,999	
01/28/98	6 380	198	10,543	126	6,705	68	3,618	58	3,086	
01/29/98	6 803	227	12,887	144	8,170	54	3,064	90	5,106	
01/30/98	7.059	233	13,726	98	5,770	44	2,591	54	3,179	
01/31/98	6.985	270	15,704	232	13,516	76	4,428	156	9,088	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JAN Monthly Total	218.163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
JAN Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total										
Mar Monthly Total										
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
YTD Monthly Total	218	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7 038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.										
Mar Daily Avg.										
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	0 598	16	949	16	939	5	288	11	651	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min										
Mar Monthly Min										
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	6 077	155	8,434	98	5 770	22	1,367	54	3,086	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max										
Mar Monthly Max										
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7 188	202	12 524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%										
Mar Monthly 75%										
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 188	202	12,524	205	12,197	65	3,617	149	8,863	
NOTE: min, max, 75% values are selected per specific parameters not per day										

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
02/01/98	22,740	218	4,946	107	2,423	
02/02/98	25,060	215	5,397	198	4,949	
02/03/98	25,690	248	6 382	134	3,442	
02/04/98	24,500	204	4,993	146	3,577	
02/05/98	28,130	218	6,145	124	3,488	
02/06/98	25,930	221	5,727	160	4,149	
02/07/98	27,920	171	4,774	98	2,736	
02/08/98	27,520	181	4,992	180	4,954	
02/09/98	25,050	180	4 511	174	4,359	
02/10/98	27,310	175	4,772	240	6,554	
02/11/98	25,490	91	2,313	110	2,804	
02/12/98	25,710	555	14,269	218	5,605	
02/13/98	24,050	210	5,055	178	4,281	
02/14/98	25,180	210	5,297	204	5,137	
02/15/98	27,030	225	6,070	184	4,974	
02/16/98	25,200	283	7,132	128	3,226	
02/17/98	25,460	202	5,148	150	3,819	
02/18/98	24,750	171	4,228	142	3,515	
02/19/98	24,690	205	5,051	128	3,160	
02/20/98	27,000	140	3,790	98	2,646	
02/21/98	26,800	152	4,060	132	3,538	
02/22/98	23,480	206	4,827	124	2,912	
02/23/98	25,340	233	5,908	120	3,041	
02/24/98	27,510	194	5,345	142	3,906	
02/25/98	24,180	171	4,133	176	4,256	
02/26/98	19,790	240	4,756	158	3,127	
02/27/98	27,230	205	5,577	110	2,995	
02/28/98	26,620	239	6,359	116	3,088	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Feb total	715,360	5,963	151,957	4,178	106,659	
Feb Daily Avg	25,549	213	5,427	149	3,809	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,541,110	11,869	309,216	9,917	262,141	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	26,121	201	5,241	168	4,443	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
02/01/98	6 008	218	10,898	110	5,490	53	2,656	57	2,834	NO VSS RUN
02/02/98	6 621	215	11,893	198	10,906	80	4,417	118	6,488	
02/03/98	6 787	248	14,063	134	7,585	44	2,491	90	5,095	
02/04/98	6 473	204	11,002	146	7,882	46	2,483	100	5,398	
02/05/98	7 432	218	13,539	124	7,686	44	2,727	80	4,959	
02/06/98	6 851	221	12,620	160	9,142	52	2,971	108	6,171	
02/07/98	7 376	171	10,520	98	6,029	42	2,584	56	3,445	
02/08/98	7 271	181	10,999	180	10,915	72	4,366	108	6,549	
02/09/98	6 618	180	9,939	174	9,604	54	2,981	120	6,624	
02/10/98	7 215	175	10,516	240	14,442	110	6,619	130	7,823	
02/11/98	6 734	91	5,097	110	6,178	42	2,359	68	3,819	
02/12/98	6 793	555	31,441	218	12,350	72	4,079	146	8,271	
02/13/98	6 354	210	11,138	178	9,433	64	3,392	114	6,041	
02/14/98	6 653	210	11,672	204	11,318	60	3,329	144	7,989	
02/15/98	7 141	225	13,374	184	10,959	64	3,812	120	7,147	
02/16/98	6 658	283	15,714	128	7,107	52	2,887	76	4,220	
02/17/98	6 727	202	11,343	150	8,415	48	2,693	102	5 722	
02/18/98	6 539	171	9,315	142	7,744	52	2,836	90	4,908	
02/19/98	6 523	205	11,129	128	6,964	56	3,047	72	3,917	
02/20/98	7 133	140	8,352	98	5,830	28	1,666	70	4,164	
02/21/98	7 081	152	8,946	132	7,795	42	2,480	90	5,315	
02/22/98	6 203	206	10,635	124	6,415	56	2,897	68	3,518	
02/23/98	6 695	233	13,017	120	6,700	40	2,233	80	4,467	
02/24/98	7 268	194	11,778	142	8,608	52	3,152	90	5,455	
02/25/98	6 388	171	9,107	176	9,377	58	3 090	118	6,287	
02/26/98	5 229	240	10,479	158	6,890	60	2 616	98	4,273	
02/27/98	7 194	205	12 288	110	6,600	48	2,880	62	3 720	
02/28/98	7 033	239	14,012	116	6,804	46	2,698	70	4,106	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
FEB Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
FEB Daily Avg.	6 750	213	11,958	149	8,399	55	3,087	94	5,312	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total										
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	203 581	5,935	340,667	4,960	288,880	1,660	95,732	3,300	193,148	
YTD Monthly Total	407	11,869	681,334	9,920	577,759	3,320	191,464	6,601	386,295	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7 038	191	11,178	185	11,051	58	3,388	128	7 664	
Feb Daily Avg.	6 750	213	11 958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.										
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg										
Dec Daily Avg.										
YTD Daily Avg.	1 116	33	1,867	27	1,583	9	525	18	1,058	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5,097	98	5 490	28	1,666	56	2 834	
Mar Monthly Min										
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	5 229	91	5 097	98	5,490	22	1,367	54	2 834	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8 434	98	5 770	22	1,367	54	3,086	
Feb Monthly Max	7 432	555	31 441	240	14,442	110	6 619	146	8,271	
Mar Monthly Max										
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	7 432	555	31,441	240	14,442	110	6,619	146	8,271	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7 188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7,135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%										
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 175	217	12,670	198	11,517	64	3,512	140	8,231	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
03/01/98	26,220	193	5,049	96	2,517	
03/02/98	26,760	111	2,970	92	2,462	
03/03/98	27,600	170	4,689	160	4,416	
03/04/98	26,810	166	4,442	124	3,324	
03/05/98	27,690	211	5,846	136	3,766	
03/06/98	26,800	164	4,395	128	3,430	no sample
03/07/98	27,700	186	5,147	186	5,152	
03/08/98	28,660	200	5,743	166	4,758	
03/09/98	27,670	185	5,107	204	5,645	
03/10/98	27,210	211	5,748	158	4,286	
03/11/98	26,580	144	3,818	108	2,871	
03/12/98	28,700	133	3,823	153	4,377	
03/13/98	26,300	164	4,313	175	4,603	
03/14/98	28,160	192	5,407	188	5,280	
03/15/98	26,980	202	5,450	202	5,450	
03/16/98	28,340	213	6,036	203	5,757	
03/17/98	28,560	239	6,826	230	6,562	
03/18/98	22,030	194	4,274	180	3,965	
03/19/98	19,850	237	4,704	116	2,303	
03/20/98	25,920	205	5,314	138	3,577	
03/21/98	18,640	174	3,243	90	1,678	
03/22/98	20,370	158	3,218	68	1,385	
03/23/98	23,660	164	3,880	128	3,028	no sample
03/24/98	20,750	227	4,710	138	2,864	
03/25/98	23,910	174	4,160	104	2,487	
03/26/98	23,890	249	5,949	130	3,106	
03/27/98	13,600	40	544	70	952	
03/28/98	7,870	40	315	32	252	samp plugged
03/29/98	8,100	40	324	12	97	
03/30/98	19,530	34	668	18	352	
03/31/98	19,580	52	1,022	24	470	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
MAR Monthly Total	734,440	5,071	127,134	3,955	101,169	
MAR Daily Avg.	23,692	164	4,101	128	3,264	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	2,275,550	16,941	436,350	13,873	363,310	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6,234	46	1,195	38	995	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
03/01/98	6 927	193	11,125	96	5,546	30	1,733	66	3,813	
03/02/98	7 070	111	6 544	92	5,425	34	2,005	58	3 420	
03/03/98	7 292	170	10,331	160	9,730	52	3,162	108	6,568	
03/04/98	7 083	166	9,788	124	7,325	30	1,772	94	5,553	
03/05/98	7 316	211	12,882	136	8,298	60	3,661	76	4,637	
03/06/98	7 081	164	9,685	128	7,559	43	2,539	85	5,019	no sample
03/07/98	7 318	186	11,341	186	11,353	64	3,906	122	7,446	
03/08/98	7 572	200	12,654	166	10,483	64	4,042	102	6,441	
03/09/98	7 310	185	11 252	204	12 438	62	3,780	142	8,658	
03/10/98	7 189	211	12,666	158	9,443	45	2,698	113	6,745	
03/11/98	7 022	144	8,412	108	6,325	30	1,757	78	4,568	
03/12/98	7 583	133	8,423	153	9,644	23	1,423	130	8,221	
03/13/98	6 948	164	9,504	175	10,141	45	2,608	130	7,534	
03/14/98	7 440	192	11,913	188	11,634	55	3,413	133	8,221	
03/15/98	7 128	202	12,009	202	12,009	58	3,448	144	8,561	
03/16/98	7 487	213	13,301	203	12 684	73	4,575	130	8,110	
03/17/98	7 546	239	15,040	230	14,459	70	4,401	160	10,059	
03/18/98	5 820	194	9,417	180	8,737	63	3,058	117	5,679	
03/19/98	5 244	237	10 366	116	5,074	42	1,837	74	3,237	
03/20/98	6 848	230	13,136	138	7,882	60	3,427	78	4,455	
03/21/98	4 925	174	7,147	90	3,696	40	1,643	50	2,054	
03/22/98	5 382	158	7,092	68	3,052	30	1,347	38	1,706	
03/23/98	6 251	164	8,550	128	6,673	43	2,242	85	4,431	no sample
03/24/98	5 482	227	10,379	138	6,310	48	2,195	90	4,115	
03/25/98	6 317	174	9,167	104	5,479	36	1,897	68	3,583	
03/26/98	6 312	249	13,107	130	6,843	53	2,790	77	4,053	
03/27/98	3 593	40	1,199	70	2,098	34	1,019	36	1,079	
03/28/98	2 079	40	694	32	555	16	277	16	277	
03/29/98	2 140	40	714	12	214	4	71	8	143	
03/30/98	5 160	34	1,472	18	775	16	689	2	86	
03/31/98	5 173	52	2,252	24	1,035	12	518	12	518	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
MAR Monthly Total	194 039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
MAR Daily Avg.	6 259	164	9,083	128	7,191	43	2,385	85	4,806	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188.998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194.039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	200 400	5,655	320,964	4,625	266,893	1,551	88,465	3,074	178,428	
YTD Monthly Total	601	16,966	962,893	13,876	800,678	4,654	265,395	9,221	535,284	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6.750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6.259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	1.647	46	2,638	38	2,194	13	727	25	1,467	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5.229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2.079	34	694	12	214	4	71	2	86	
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	2.079	34	694	12	214	4	71	2	86	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7.432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7.583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	7.583	555	31,441	240	14,459	110	6,619	160	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7.244	214	12,621	191	11,066	63	3,519	134	7,979	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
04/01/98	20,580	58	1,188	68	1,399	
04/02/98	22,050	173	3,820	160	3,528	
04/03/98	21,020	188	3,949	120	2,522	
04/04/98	22,390	248	5,548	148	3,303	
04/05/98	19,750	211	4,166	134	2,647	
04/06/98	21,150	233	4,928	166	3,511	
04/07/98	19,320	40	773	170	3,284	
04/08/98	22,400	213	4,771	128	2,867	
04/09/98	21,800	284	6,191	110	2,396	
04/10/98	19,630	240	4,701	93	1,816	
04/11/98	8,440	59	498	10	84	
04/12/98	8,980	40	359	12	108	
04/13/98	19,840	103	2,046	122	2,420	
04/14/98	18,590	749	13,924	152	2,826	
04/15/98	18,080	194	3,508	82	1,483	
04/16/98	23,160	215	4,974	120	2,779	
04/17/98	23,470	223	5,234	240	5,633	
04/18/98	22,320	279	6,227	132	2,946	
04/19/98	21,360	296	6,323	130	2,774	
04/20/98	21,930	315	6,908	180	3,947	
04/21/98	23,740	215	5,103	94	2,232	
04/22/98	22,030	205	4,506	66	1,454	
04/23/98	21,210	184	3,903	145	3,075	
04/24/98	22,770	229	5,214	143	3,245	
04/25/98	23,010	238	5,487	128	2,945	
04/26/98	19,700	255	5,024	136	2,679	
04/27/98	19,750	276	5,451	126	2,485	
04/28/98	18,920	249	4,711	122	2,308	samp plugged
04/29/98	24,270	246	5,964	158	3,835	
04/30/98	25,510	217	5,529	157	4,013	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
APR Monthly Total	617,170	6,673	140,928	3,750	80,544	
APR Daily Avg.	20,572	222	4,698	125	2,685	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	2,892,720	23,614	577,278	17,623	443,855	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	7,925	65	1,582	48	1,216	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
04/01/98	5 437	58	2,617	68	3,084	26	1,179	42	1,905	
04/02/98	5 826	173	8,417	160	7 774	48	2,332	112	5,442	
04/03/98	5 553	188	8,702	120	5,558	38	1,760	82	3,798	
04/04/98	5 915	248	12,226	148	7,277	48	2,343	100	4,933	
04/05/98	5 218	211	9,180	134	5,831	44	1,915	90	3,917	
04/06/98	5 588	233	10,858	166	7,736	68	3,169	98	4,567	
04/07/98	5 104	40	1,703	170	7,237	54	2,299	116	4,938	
04/08/98	5 918	213	10,513	128	6,318	40	1,974	88	4,343	
04/09/98	5 760	284	13,642	110	5,279	50	2 399	60	2,879	
04/10/98	5 186	240	10,359	93	4,001	35	1,514	58	2,487	
04/11/98	2 230	59	1,097	10	186	8	149	2	37	
04/12/98	2 373	40	791	12	237	10	198	2	40	
04/13/98	5 242	103	4,508	122	5,333	32	1,399	90	3,934	
04/14/98	4 911	749	30,680	152	6,226	56	2,294	96	3,932	
04/15/98	4 777	194	7,729	82	3,267	30	1,195	52	2,072	
04/16/98	6 119	215	10 959	120	6,124	38	1,939	82	4,185	
04/17/98	6 201	223	11,532	240	12,411	64	3,310	176	9,102	
04/18/98	5 897	279	13,721	132	6,492	36	1,770	96	4,721	
04/19/98	5 643	296	13,931	130	6,112	40	1,879	90	4,233	
04/20/98	5 794	315	15,221	180	8,698	54	2,609	126	6,088	
04/21/98	6 272	215	11,243	94	4,917	30	1,569	64	3,348	
04/22/98	5 820	205	9,930	66	3,204	26	1,262	40	1,942	
04/23/98	5 604	184	8,599	145	6,777	58	2,687	88	4,089	
04/24/98	6 016	229	11,489	143	7,150	63	3,136	80	4,014	
04/25/98	6 079	238	12,089	128	6,490	38	1,927	90	4,563	
04/26/98	5 205	255	11,069	136	5,903	48	2,084	88	3,820	
04/27/98	5 218	276	12,011	126	5,476	40	1,742	86	3,734	
04/28/98	4 999	249	10,381	122	5 086	40	1,668	82	3,418	
04/29/98	6 412	246	13,142	158	8,449	46	2,460	112	5,989	
04/30/98	6 740	217	12,183	157	8,842	34	1,929	123	6,913	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
APR Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
APR Daily Avg.	5 435	222	10,351	125	5,916	41	1,936	84	3,979	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188,998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194,039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	191 064	5,910	318,354	4,406	244,538	1,474	80,871	2,933	163,667	
YTD Monthly Total	764	23,639	1,273,418	17,626	978,152	5,895	323,485	11,731	654,667	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6.750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6.259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5.435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.094	65	3,489	48	2,680	16	886	32	1,794	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5.229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2.079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2.230	40	791	10	186	8	149	2	37	
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	2.079	34	694	10	186	4	71	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7.432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7.583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6.740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	7.583	749	31,441	240	14,459	110	6,619	176	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7.216	229	12,573	184	10,501	61	3,469	127	7,537	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
05/01/98	22,170	236	5,225	173	3,839	
05/02/98	20,000	268	5,361	120	2,400	
05/03/98	22,750	240	5,449	82	1,866	
05/04/98	20,640	275	5,672	104	2,147	
05/05/98	21,470	255	5,474	82	1,761	
05/06/98	17,910	204	3,653	116	2,078	
05/07/98	19,820	255	5,054	98	1,942	
05/08/98	17,650	254	4,483	74	1,306	
05/09/98	22,110	256	5,669	52	1,150	
05/10/98	19,720	253	4,989	86	1,696	
05/11/98	17,820	285	5,079	66	1,176	
05/12/98	19,730	224	4,411	88	1,736	
05/13/98	18,700	174	3,250	72	1,346	
05/14/98	20,130	228	4,590	88	1,771	
05/15/98	21,720	226	4,909	112	2,433	
05/16/98	24,260	229	5,557	92	2,232	
05/17/98	23,700	155	3,681	88	2,086	
05/18/98	24,040	217	5,217	160	3,846	
05/19/98	23,460	249	5,840	58	1,361	
05/20/98	27,560	152	4,186	96	2,646	
05/21/98	18,350	221	4,058	72	1,321	
05/22/98	22,950	207	4,755	98	2,249	
05/23/98	23,250	230	5,355	106	2,465	
05/24/98	22,660	242	5,481	62	1,405	
05/25/98	20,342	210	4,264	90	1,831	
05/26/98	23,558	225	5,310	90	2,120	
05/27/98	20,010	182	3,647	74	1,481	
05/28/98	17,120	240	4,115	82	1,404	samp plugged
05/29/98	20,400	265	5,409	72	1,469	
05/30/98	19,940	167	3,335	148	2,951	
05/31/98	25,440	216	5,486	66	1,679	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
MAY Total	659,380	7,040	148,960	2,867	61,191	
MAY Daily Avg.	21,270	227	4,805	92	1,974	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	3,552,100	30,654	726,238	20,490	505,045	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	9,732	84	1,990	56	1,384	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
05/01/98	5 857	236	11,513	173	8,459	67	3,253	107	5,205	
05/02/98	5 284	268	11,813	120	5,288	38	1,675	82	3,614	
05/03/98	6 011	240	12,006	82	4,110	48	2,406	34	1,704	
05/04/98	5 453	275	12,498	104	4,730	42	1,910	62	2,820	
05/05/98	5 672	255	12,061	82	3,879	38	1,798	44	2,082	
05/06/98	4 732	204	8,048	116	4,578	36	1,421	80	3,157	
05/07/98	5 236	255	11,136	98	4,280	32	1,398	66	2,882	
05/08/98	4 663	254	9,878	74	2,878	42	1,633	32	1,244	
05/09/98	5 841	256	12,490	52	2,533	20	974	32	1,559	
05/10/98	5 210	253	10,993	86	3,737	38	1,651	48	2,086	
05/11/98	4 708	285	11,191	66	2,591	26	1,021	40	1,571	
05/12/98	5 213	224	9,719	88	3,826	40	1,739	48	2,087	
05/13/98	4 941	174	7,162	72	2,967	28	1,154	44	1,813	
05/14/98	5 318	228	10,113	88	3,903	34	1,508	54	2,395	
05/15/98	5 738	226	10,816	112	5,360	50	2,393	62	2,967	
05/16/98	6 409	229	12,244	92	4,918	26	1,390	66	3,528	
05/17/98	6 262	155	8,110	88	4,595	32	1,671	56	2,924	
05/18/98	6 351	217	11,495	160	8,475	46	2,437	114	6,039	
05/19/98	6 198	249	12,868	58	2,998	38	1,964	20	1,034	
05/20/98	7 281	152	9,223	96	5,830	38	2,308	58	3,522	
05/21/98	4 848	221	8,941	72	2,911	36	1,456	36	1,456	
05/22/98	6 063	207	10,477	98	4,956	44	2,225	54	2,731	
05/23/98	6,143	230	11,799	106	5,430	66	3,381	40	2,049	
05/24/98	5 987	242	12,077	62	3,096	26	1,298	36	1,797	
05/25/98	5 374	210	9,396	90	4,034	38	1,703	52	2,331	
05/26/98	6 224	225	11,699	90	4,672	34	1,765	56	2,907	
05/27/98	5 287	182	8,036	74	3,263	34	1,499	40	1,764	
05/28/98	4 523	240	9,068	82	3,093	35	1,320	47	1,773	
05/29/98	5 390	265	11,918	72	3,236	36	1,618	36	1,618	
05/30/98	5 268	167	7,348	148	6,503	37	1,626	111	4,877	
05/31/98	6 721	216	12,087	66	3,700	38	2,130	28	1,570	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
MAY Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
MAY Daily Avg.	5 620	227	10,588	92	4,349	38	1,798	54	2,552	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218.163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188.998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194.039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163.056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174.208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	187.693	6,136	320,328	4,099	222,596	1,416	75,842	2,683	146,754	
YTD Monthly Total	938	30,679	1,601,641	20,493	1,112,981	7,078	379,210	13,416	733,771	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7 038	191	11,178	185	11 051	58	3,388	128	7,664	
Feb Daily Avg.	6 750	213	11 958	149	8,399	55	3,087	94	5 312	
Mar Daily Avg.	6 259	164	9 083	128	7 191	43	2,385	85	4 806	
Apr Daily Avg.	5 435	222	10 351	125	5,916	41	1 936	84	3,979	
May Daily Avg	5 620	227	10,588	92	4,349	38	1 798	54	2,552	
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2 571	84	4,388	56	3,049	19	1 039	37	2,010	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5 097	98	5 490	28	1,666	56	2,834	
Mar Monthly Min	2 079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2 230	40	791	10	186	8	149	2	37	
May Monthly Min	4 523	152	7 162	52	2,533	20	974	20	1,034	
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	2 079	34	694	10	186	4	71	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8 434	98	5 770	22	1 367	54	3 086	
Feb Monthly Max	7 432	555	31 441	240	14 442	110	6 619	146	8 271	
Mar Monthly Max	7 583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6 740	749	30 680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7 281	285	12 868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	7,583	749	31,441	240	14,459	110	6,619	176	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7,188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7 135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7 301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5,917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6 103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 188	249	12,524	177	9,936	60	3,420	120	7,096	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
06/01/98	24,850	225	5,582	70	1,740	
06/02/98	19,430	248	4,819	90	1,749	avg. BOD
06/03/98	19,000	109	2,073	86	1,634	
06/04/98	21,400	202	4,316	110	2,354	
06/05/98	22,000	215	4,722	62	1,364	
06/06/98	20,000	279	5,580	94	1,880	
06/07/98	19,040	257	4,893	114	2,171	
06/08/98	17,980	357	6,419	94	1,690	
06/09/98	18,930	222	4,206	60	1,136	
06/10/98	18,810	183	3,445	142	2,671	
06/11/98	20,750	210	4,347	88	1,826	
06/12/98	14,450	192	2,778	126	1,821	
06/13/98	15,360	199	3,059	118	1,812	
06/14/98	19,220	214	4,112	114	2,191	
06/15/98	21,740	182	3,954	120	2,606	
06/16/98	24,220	234	5,667	124	3,003	
06/17/98	19,670	298	5,862	114	2,242	
06/18/98	21,630	297	6,424	90	1,947	
06/19/98	25,070	259	6,493	84	2,106	
06/20/98	20,650	302	6,236	76	1,569	
06/21/98	19,830	320	6,346	80	1,586	
06/22/98	20,350	270	5,495	88	1,791	
06/23/98	21,200	259	5,491	46	975	
06/24/98	22,500	214	4,815	106	2,385	
06/25/98	21,400	265	5,671	98	2,097	
06/26/98	20,900	265	5,541	92	1,923	
06/27/98	20,350	291	5,922	84	1,709	
06/28/98	21,290	332	7,068	96	2,044	samp plugged
06/29/98	21,870	303	6,627	74	1,618	
06/30/98	24,800	232	5,765	128	3,174	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
JUN Monthly Total	618,690	7,435	153,727	2,868	58,815	
JUN Daily Avg.	20,623	248	5,124	96	1,961	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	4,170,790	38,089	879,965	23,358	563,861	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	11,427	104	2,411	64	1,545	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
06/01/98	6 565	225	12,299	70	3,833	42	2,300	28	1,533	
06/02/98	5 133	248	10,618	90	3,853	30	1,284	60	2,569	avg BOD
06/03/98	5 020	109	4,569	86	3,600	26	1,088	60	2,512	
06/04/98	5 654	202	9,510	110	5,187	38	1,792	72	3,395	
06/05/98	5 812	215	10,404	62	3,005	22	1,066	40	1,939	
06/06/98	5 284	279	12,295	94	4,142	40	1,763	54	2,380	
06/07/98	5 030	257	10,782	114	4,783	40	1,678	74	3,105	
06/08/98	4 750	357	14,143	94	3,724	38	1,505	56	2,219	
06/09/98	5 001	222	9,268	60	2,503	24	1,001	36	1,502	
06/10/98	4 970	183	7,590	142	5,885	58	2,404	84	3,482	
06/11/98	5 482	210	9,579	88	4,023	46	2,103	42	1,920	
06/12/98	3 818	192	6,121	126	4,012	44	1,401	82	2,611	
06/13/98	4 058	199	6,739	118	3,994	44	1,489	74	2,505	
06/14/98	5 078	214	9,060	114	4,828	30	1,270	84	3,557	
06/15/98	5 744	182	8,713	120	5,743	47	2,233	73	3,509	
06/16/98	6 399	234	12,488	124	6,618	54	2,882	70	3,736	
06/17/98	5 197	298	12,916	114	4,941	40	1,734	74	3,207	
06/18/98	5 715	297	14,155	90	4,289	38	1,811	52	2,478	
06/19/98	6 623	259	14,307	84	4,640	40	2,210	44	2,431	
06/20/98	5 456	302	13,741	76	3,458	38	1,729	38	1,729	
06/21/98	5 239	320	13,982	80	3,496	26	1,136	54	2,359	
06/22/98	5 376	270	12,107	88	3,946	44	1,973	44	1,973	
06/23/98	5 601	259	12,099	46	2,149	16	747	30	1,401	
06/24/98	5 945	214	10,610	106	5,255	42	2,082	64	3,173	
06/25/98	5 654	265	12,496	98	4,621	42	1,980	56	2,641	
06/26/98	5 522	265	12,210	92	4,237	22	1,013	70	3,224	
06/27/98	5 376	291	13,048	84	3,767	30	1,345	54	2,421	
06/28/98	5 625	332	15,574	96	4,503	44	2,064	52	2,439	
06/29/98	5 778	303	14,601	74	3,566	42	2,024	32	1,542	
06/30/98	6 552	232	12,702	128	6,995	48	2,623	80	4,372	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JUN Monthly Total	163.458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
JUN Daily Avg.	5 449	248	11,291	96	4,320	38	1,724	58	2,595	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194.039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174.208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163.458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	183 654	6,352	323,394	3,894	207,096	1,369	71,824	2,525	135,272	
YTD Monthly Total	1,102	38,114	1,940,367	23,361	1,242,576	8,212	430,943	15,149	811,634	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg	7 038	191	11,178	185	11,051	58	3 388	128	7,664	
Feb Daily Avg.	6 750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6 259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5 435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.	5 620	227	10 588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5 449	248	11,291	96	4,320	38	1 724	58	2,595	
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	3 019	104	5,316	64	3,404	22	1,181	42	2,224	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2 079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2 230	40	791	10	186	8	149	2	37	
May Monthly Min	4 523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3 818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	2 079	34	694	10	186	4	71	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8,434	98	5,770	22	1 367	54	3,086	
Feb Monthly Max	7 432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7 583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6 740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7.281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6 623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	7 583	749	31,441	240	14,459	110	6,619	176	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,817	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7 301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5 917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6 103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5,736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 175	252	12,670	175	9,821	60	3,364	118	6,906	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
07/01/98	18,300	130	2,371	44	805	
07/02/98	6,480	47	306	78	505	
07/03/98	4,620	40	185	668	3,086	clar down
07/04/98	250	40	10	538	135	clar down
07/05/98	60	40	2	6	0	clar down
07/06/98	270	40	11	3	1	clar down
07/07/98	220	40	9	2	0	clar down
07/08/98	2,280	40	91	88	201	clar down
07/09/98	3,190	40	128	88	281	No power AVG
07/10/98	5,460	220	1,199	163	891	clar down
07/11/98	10,650	72	762	68	724	clar down
07/12/98	18,390	103	1,894	82	1,508	clar down
07/13/98	23,070	157	3,625	102	2,353	back on line
07/14/98	19,500	237	4,615	112	2,184	
07/15/98	25,110	197	4,948	94	2,360	
07/16/98	19,120	242	4,617	176	3,374	
07/17/98	23,940	255	6,115	123	2,933	
07/18/98	20,040	251	5,029	92	1,844	
07/19/98	21,290	252	5,365	82	1,746	
07/20/98	21,540	329	7,087	180	3,877	
07/21/98	20,330	348	7,080	92	1,870	
07/22/98	20,440	352	7,195	124	2,535	
07/23/98	20,480	348	7,127	106	2,171	
07/24/98	17,200	255	4,381	70	1,204	
07/25/98	33,130	215	7,123	110	3,644	
07/26/98	18,020	266	4,793	172	3,099	
07/27/98	19,610	320	6,275	147	2,883	
07/28/98	23,190	279	6,470	136	3,154	
07/29/98	24,830	228	5,663	148	3,675	
07/30/98	22,440	231	5,178	122	2,738	
07/31/98	18,550	256	4,749	88	1,632	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
JUL Monthly Total	482,000	5,868	114,402	4,104	57,414	
JUL Daily Avg.	15,548	189	3,690	132	1,852	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	4,652,790	43,957	994,367	27,462	621,274	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3,690	132	1,852	
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	21,984	208	4,703	130	2,937	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
07/01/98	4 835	130	5,224	44	1,774	24	968	20	806	
07/02/98	1 712	47	674	78	1,114	22	314	56	800	
07/03/98	1 221	40	407	668	6,800	176	1,792	492	5,008	
07/04/98	0 066	40	22	538	296	162	89	376	207	
07/05/98	0 016	40	5	6	1	2	0	4	1	
07/06/98	0 071	40	24	3	2	2	1	1	1	
07/07/98	0 058	40	19	2	1	1	0	1	1	
07/08/98	0 602	40	201	88	442	38	191	50	251	
07/09/98	0 843	40	281	88	619	48	337	40	281	avg tss
07/10/98	1 443	220	2,641	163	1,963	113	1,362	50	601	
07/11/98	2 814	72	1,678	68	1,596	34	798	34	798	
07/12/98	4 859	103	4,173	82	3,323	32	1,297	50	2,026	
07/13/98	6 095	157	7,987	102	5,185	40	2,033	62	3,152	
07/14/98	5 152	237	10,170	112	4,812	36	1,547	76	3,265	
07/15/98	6 634	197	10,903	94	5,201	36	1,992	58	3,209	
07/16/98	5 052	242	10,174	176	7,435	63	2,666	113	4,770	
07/17/98	6 325	255	13,474	123	6,462	45	2,374	78	4,088	
07/18/98	5 295	251	11,081	92	4,062	32	1,413	60	2,649	
07/19/98	5 625	252	11,822	82	3,847	20	938	62	2,908	
07/20/98	5 691	329	15,615	180	8,543	80	3,797	100	4,746	
07/21/98	5 371	348	15,600	92	4,121	36	1,613	56	2,509	
07/22/98	5 400	352	15,853	124	5,585	50	2,252	74	3,333	
07/23/98	5 411	348	15,704	106	4,783	48	2,166	58	2,617	
07/24/98	4 544	255	9,652	70	2,653	36	1,364	34	1,289	
07/25/98	8 753	215	15,695	110	8,030	44	3,212	66	4,818	
07/26/98	4 761	266	10,562	172	6,829	56	2,224	116	4,606	
07/27/98	5 181	320	13,827	147	6,352	48	2,052	100	4,299	
07/28/98	6 127	279	14,256	136	6,949	46	2,350	90	4,599	
07/29/98	6 560	228	12,477	148	8,097	50	2,736	98	5,362	
07/30/98	5 929	231	11,409	122	6,032	34	1,681	88	4,351	
07/31/98	4 901	256	10,464	88	3,597	32	1,308	56	2,289	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JUL Monthly Total	127.344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
JUL Daily Avg.	4.108	189	8,132	132	4,081	48	1,512	84	2,569	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218.163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188.998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194 039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174.208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163 458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127 344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	175 610	6,283	313,206	3,924	195,583	1,385	68,258	2,538	127,325	
YTD Monthly Total	1,229	43,982	2,192,443	27,465	1,369,083	9,698	477,809	17,767	891,274	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6.750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6.259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5.435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.	5.620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5.449	248	11,291	96	4,320	38	1,724	58	2,595	
Jul Daily Avg.	4.108	189	8,132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	3.368	120	6,007	75	3,751	27	1,309	49	2,442	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5.229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2.079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2.230	40	791	10	186	8	149	2	37	
May Monthly Min	4.523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3.818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min	0.016	40	5	2	1	1	0	1	1	
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.016	34	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7.432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7.583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6.740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7.281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6.623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8.753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	8.753	749	31,441	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6.103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5.736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
08/01/98	22,480	225	5,059	108	2,428	
08/02/98	25,560	233	5,955	140	3,578	
08/03/98	23,150	239	5,543	156	3,611	
08/04/98	23,870	173	4,121	158	3,771	
08/05/98	23,500	216	5,086	150	3,525	
08/06/98	20,540	315	6,470	86	1,766	
08/07/98	19,510	256	4,995	148	2,887	
08/08/98	20,160	276	5,564	134	2,701	
08/09/98	20,680	202	4,175	72	1,489	
08/10/98	20,000	256	5,129	92	1,840	
08/11/98	18,780	345	6,479	148	2,779	
08/12/98	19,370	306	5,927	60	1,162	
08/13/98	19,820	251	4,980	56	1,110	
08/14/98	20,510	242	4,971	84	1,723	
08/15/98	22,740	396	9,005	60	1,364	
08/16/98	18,890	274	5,182	44	831	
08/17/98	20,210	157	3,168	46	930	
08/18/98	20,260	188	3,800	47	952	
08/19/98	23,830	160	3,820	42	1,001	
08/20/98	25,400	207	5,259	74	1,880	
08/21/98	20,650	249	5,150	52	1,074	
08/22/98	23,000	254	5,845	54	1,242	
08/23/98	21,660	197	4,263	60	1,300	
08/24/98	22,220	240	5,343	46	1,022	
08/25/98	26,720	237	6,333	56	1,496	
08/26/98	18,590	156	2,893	76	1,413	
08/27/98	21,010	190	3,996	70	1,471	
08/28/98	20,570	222	4,559	40	823	samp plugged
08/29/98	22,350	225	5,025	64	1,430	
08/30/98	22,570	245	5,530	56	1,264	
08/31/98	21,430	304	6,515	80	1,714	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
AUG MonthlyTotal	670,030	7,212	155,079	2,559	55,580	
AUG Daily Avg.	21,614	240	5,169	83	1,793	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total	670,030	7,212	155,079	2,559	55,580	
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	5,322,820	51,169	1,149,446	30,021	676,854	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3,690	132	1,852	
Aug Daily Avg.	21,614	240	5,169	83	1,793	
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	21,938	212	4,761	124	2,794	

				Georgia Pacific Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
08/01/98	5 939	225	11,148	108	5,350	46	2,279	62	3 071	
08/02/98	6 753	233	13 122	140	7,885	52	2,929	88	4,956	
08/03/98	6 116	239	12 214	156	7,957	46	2,346	110	5,611	
08/04/98	6 306	173	9,080	158	8,310	44	2,314	114	5,996	
08/05/98	6 209	216	11,207	150	7,767	54	2,796	96	4,971	
08/06/98	5 427	315	14 256	86	3,892	36	1,629	50	2,263	
08/07/98	5 155	256	11,005	148	6,362	60	2,579	88	3,783	
08/08/98	5 326	276	12,260	134	5,952	50	2,221	84	3 731	
08/09/98	5 464	202	9,199	72	3,281	46	2,096	26	1,185	
08/10/98	5 284	256	11,301	92	4,054	44	1,939	48	2,115	
08/11/98	4 962	345	14,276	148	6,124	74	3,062	74	3,062	
08/12/98	5 118	306	13,060	60	2,561	30	1,280	30	1,280	
08/13/98	5 236	251	10,973	56	2,446	34	1,485	22	961	
08/14/98	5 419	242	10,954	84	3,796	46	2,079	38	1,717	
08/15/98	6 008	396	19,842	60	3,006	26	1,303	34	1,704	
08/16/98	4 991	274	11,418	44	1,831	24	999	20	832	
08/17/98	5 339	157	6,980	46	2,048	22	980	24	1,069	
08/18/98	5 353	188	8,373	47	2,098	22	982	25	1,116	
08/19/98	6 296	160	8,417	42	2,205	20	1,050	22	1,155	
08/20/98	6 711	207	11,589	74	4,142	40	2,239	34	1,903	
08/21/98	5 456	249	11,347	52	2,366	28	1,274	24	1,092	
08/22/98	6 077	254	12,879	54	2,737	30	1,520	24	1,216	
08/23/98	5 723	197	9,393	60	2,864	30	1,432	30	1,432	
08/24/98	5 871	240	11,772	46	2,252	28	1,371	18	881	
08/25/98	7 059	237	13,954	56	3,297	34	2,002	22	1,295	
08/26/98	4 911	156	6,375	76	3,113	28	1,147	48	1,966	
08/27/98	5 551	190	8,805	70	3,241	34	1,574	36	1,667	
08/28/98	5 435	222	10,045	40	1,813	24	1,088	16	725	
08/29/98	5 905	225	11 071	64	3,152	28	1,379	36	1,773	
08/30/98	5 963	245	12,184	56	2,785	36	1,790	20	995	
08/31/98	5 662	304	14,355	80	3,778	42	1,983	38	1,794	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
AUG Monthly Total	177,022	7,212	352,853	2,559	122,466	1,158	55,147	1,401	67,318	
AUG Daily Avg.	5.710	240	11,382	83	3,951	37	1,779	45	2,172	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194 039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163 458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127 344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total	177 022	7,212	352,853	2,559	122,466	1,158	55,147	1,401	67,318	
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	175 610	6,399	318,162	3,753	186,444	1,357	66,620	2,396	119,824	
YTD Monthly Total	1,406	51,194	2,545,297	30,024	1,491,549	10,856	532,957	19,168	958,592	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg	7 038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg	6 750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6 259	164	9 083	128	7,191	43	2,385	85	4 806	
Apr Daily Avg.	5 435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg	5 620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5 449	248	11,291	96	4,320	38	1 724	58	2,595	
Jul Daily Avg	4 108	189	8,132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.	5 710	240	11,382	83	3,951	37	1,779	45	2 172	
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	5 796	212	10,495	124	6,157	45	2 201	79	3,956	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8 434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5 097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2 079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2 230	40	791	10	186	8	149	2	37	
May Monthly Min	4 523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3 818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min	0 016	40	5	2	1	1	0	1	1	
Aug Monthly Min	4 911	156	6,375	40	1,813	20	980	16	725	
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0 016	34	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8 434	98	5,770	22	1 367	54	3 086	
Feb Monthly Max	7 432	555	31,441	240	14 442	110	6,619	146	8,271	
Mar Monthly Max	7 583	249	15,040	230	14 459	73	4,575	160	10,059	
Apr Monthly Max	6 740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7 281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6 623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8 753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max	7 059	396	19,842	158	8,310	74	3,062	114	5,996	
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	8 753	749	31,441	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7 188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7 135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7 301	207	11,961	171	9,936	59	3 420	120	7,096	
Apr Monthly 75 %	5 917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6 103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5 736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5 658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%	6 042	256	12 570	100	4,746	46	2,230	56	2 663	
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 148	256	12,783	172	9,591	59	3,252	116	6,527	

NOTE: min, max, 75% values are selected per specific parameters not per day

	Monthly Georgia Pacific Billing					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
09/01/98		247	6,064	78	1,919	
09/02/98	23 710	179	4,250	36	854	
09/03/98	21,130	215	4,539	76	1,606	
09/04/98	21,730	206	4,475	36	782	
09/05/98	21,450	282	6,049	60	1,287	
09/06/98	21,210	275	5,833	48	1,018	
09/07/98	23,100	284	6,560	106	2,449	
09/08/98	26,290	206	5,409	78	2,051	
09/09/98	21,850	228	4,985	104	2,272	
09/10/98	19,830	303	6,008	70	1,388	
09/11/98	24,010	260	6,243	62	1,489	
09/12/98	22,860	274	6,264	54	1,234	
09/13/98	22,700	250	5,678	54	1,226	
09/14/98	22,760	237	5,383	48	1,092	
09/15/98	22,520	183	4,127	60	1,351	
09/16/98	22,930	167	3,818	60	1,376	
09/17/98	23,620	204	4,807	58	1,370	
09/18/98	19,810	215	4,265	54	1,070	
09/19/98	23,560	268	6,314	42	990	
09/20/98	25,560	224	5,713	110	2,812	
09/21/98	22,270	201	4,476	66	1,470	
09/22/98	23,020	227	5,214	94	2,164	
09/23/98	21,100	153	3,220	96	2,026	
09/24/98	19,340	198	3,828	96	1,857	
09/25/98	19,280	177	3,420	62	1,195	
09/26/98	21,080	175	3,678	84	1,771	
09/27/98	24,170	247	5,981	94	2,272	
09/28/98	23,660	222	5,253	110	2,603	samp plugged
09/29/98	22,940	233	5,334	108	2,478	
09/30/98	20,310	266	5,400	92	1,869	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
SEP Monthly Total	672,400	6,803	152,586	2,196	49,337	
SEP Daily Avg.	22,413	227	5,086	73	1,645	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total	670,030	7,212	155,940	2,559	55,580	
Sep Monthly Total	672,400	6,803	152,586	2,196	49,337	
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	5,995,220	57,972	1,302,893	32,217	726,191	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3,690	132	1,852	
Aug Daily Avg.	21,614	240	5,198	83	1,793	
Sep Daily Avg.	22,413	227	5,086	73	1,645	
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	21,938	212	4,765	124	2,794	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
09/01/98	6 499	247	13,361	78	4,228	40	2,168	38	2 060	
09/02/98	6 264	179	9,365	36	1,881	24	1,254	12	627	
09/03/98	5 583	215	10,001	76	3,538	44	2 049	32	1,490	
09/04/98	5 741	206	9,861	36	1,724	28	1,341	8	383	
09/05/98	5 667	282	13,328	60	2,836	38	1,796	22	1,040	
09/06/98	5 604	275	12,852	48	2,243	28	1 309	20	935	
09/07/98	6 103	284	14,455	106	5,395	44	2,240	62	3,156	
09/08/98	6 946	206	11,919	78	4,518	48	2,781	30	1,738	
09/09/98	5 773	228	10,983	104	5,007	42	2,022	62	2,985	
09/10/98	5 239	303	13,239	70	3,059	34	1,486	36	1,573	
09/11/98	6 343	260	13,755	62	3,280	30	1,587	32	1,693	
09/12/98	6 040	274	13,801	54	2,720	22	1,108	32	1,612	
09/13/98	5 997	250	12,511	54	2,701	24	1,200	30	1,501	
09/14/98	6 013	237	11,860	48	2 407	24	1,204	24	1,204	
09/15/98	5 950	183	9,093	60	2,977	34	1,687	26	1,290	
09/16/98	6 058	167	8,412	60	3,031	24	1,213	36	1,819	
09/17/98	6 240	204	10,591	58	3,019	26	1,353	32	1,665	
09/18/98	5 234	215	9,398	54	2,357	36	1,571	18	786	
09/19/98	6 225	268	13,913	42	2,180	30	1,557	12	623	
09/20/98	6 753	224	12,587	110	6,195	32	1,802	78	4,393	
09/21/98	5 884	201	9,863	66	3,239	34	1,668	32	1,570	
09/22/98	6 082	227	11,489	94	4,768	28	1,420	66	3,348	
09/23/98	5 575	153	7,096	96	4,463	34	1,581	62	2,883	
09/24/98	5 110	198	8,435	96	4,091	42	1,790	54	2,301	
09/25/98	5 094	177	7,535	62	2,634	28	1,189	34	1,444	
09/26/98	5 569	175	8,105	84	3,902	36	1,672	48	2,230	
09/27/98	6 386	247	13,178	94	5,006	40	2,130	54	2,876	
09/28/98	6 251	222	11,574	110	5,735	38	1,981	72	3,754	
09/29/98	6 061	233	11,752	108	5,459	50	2 527	58	2,932	
09/30/98	5 366	266	11,899	92	4,117	42	1,880	50	2,238	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
SEP Monthly Total	177.648	6,803	336,213	2,196	108,711	1,024	50,566	1,172	58,145	
SEP Daily Avg.	5 922	227	11,207	73	3,624	34	1,686	39	1,938	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188,998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194 039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163.458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127.344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total	177.022	7,212	361,499	2,559	122,466	1,158	55,147	1,401	67,318	
Sep Monthly Total	177.648	6,803	336,213	2,196	108,711	1,024	50,566	1,172	58,145	
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	175.993	6,444	321,128	3,580	177,807	1,320	64,836	2,260	112,971	
YTD Monthly Total	1,584	57,997	2,890,156	32,220	1,600,260	11,880	583,523	20,340	1,016,737	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7 038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6 750	213	11 958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6 259	164	9,083	128	7,191	43	2,385	85	4 806	
Apr Daily Avg.	5 435	222	10,351	125	5 916	41	1,936	84	3,979	
May Daily Avg.	5 620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg	5 449	248	11,291	96	4,320	38	1,724	58	2,595	
Jul Daily Avg.	4 108	189	8 132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.	5 710	240	11,661	83	3,951	37	1,779	45	2,172	
Sep Daily Avg.	5 922	227	11 207	73	3,624	34	1,686	39	1,938	
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	5 810	213	10,605	118	5,876	44	2,144	75	3,732	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2 079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2 230	40	791	10	186	8	149	2	37	
May Monthly Min	4 523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3 818	182	6 121	46	2,149	16	747	30	1 401	
July Monthly Min	0 016	40	5	2	1	1	0	1	1	
Aug Monthly Min	4 911	156	6,375	40	1,813	20	980	16	725	
Sep Monthly Min	5 094	153	7,096	36	1,724	22	1,108	8	383	
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0 016	34	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7 432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7 583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6 740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7 281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6 623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8 753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max	7,059	396	19,842	158	8,310	74	3,062	114	5,996	
Sep Monthly Max	6 946	303	14,455	110	6,195	50	2,781	78	4,393	
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	8,753	749	31,441	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7,188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7 135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6.103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5 736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%	6,042	256	12,771	100	4,746	46	2,230	56	2,663	
Sep Monthly 75%	6 236	258	13,096	94	4,505	40	1,956	54	2,732	
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	7 135	256	12,976	171	9,476	59	3,196	115	6,337	

NOTE: min, max, 75% values are selected per specific parameters not per day

Monthly Georgia Pacific Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
10/01/98	23,100	213	4 927	104	2,402	
10/02/98	20,640	183	3 786	64	1,321	
10/03/98	21,950	221	4 852	92	2,019	
10/04/98	25,650	236	6,041	88	2,257	
10/05/98	28,390	67	1,902	56	1,590	
10/06/98	24,300	102	2,469	120	2,916	
10/07/98	22,470	136	3,058	72	1,618	
10/08/98	23,870	163	3,885	114	2,721	
10/09/98	22,180	235	5,207	108	2,395	
10/10/98	22,280	187	4,166	102	2,273	
10/11/98	23,880	763	18,220	104	2,484	
10/12/98	21,850	22	484	80	1,748	
10/13/98	21,310	243	5,178	64	1,364	
10/14/98	19,710	213	4,207	72	1,419	
10/15/98	24,250	205	4,967	124	3,007	
10/16/98	21,670	223	4,842	90	1,950	
10/17/98	22,730	352	8,001	82	1,864	
10/18/98	25,560	233	5,944	102	2,607	
10/19/98	23,950	251	6,015	112	2,682	
10/20/98	24,760	257	6,354	98	2,426	
10/21/98	25,500	236	6,023	164	4,182	
10/22/98	15,870	297	4,713	132	2,095	
10/23/98	18,860	268	5,053	66	1,245	
10/24/98	23,140	322	7,451	108	2,499	
10/25/98	25,060	317	7,944	120	3,007	
10/26/98	26,100	212	5,523	130	3,393	
10/27/98	21,800	285	6,213	118	2,572	
10/28/98	21,530	194	4,183	114	2,454	
10/29/98	20,800	188	3,910	122	2,538	
10/30/98	26,530	252	6,689	122	3,237	
10/31/98	21,710	308	6,687	98	2,128	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
OCT Monthly Total	711,400	7,384	168,896	3,142	72,414	
OCT Daily Avg.	22,948	238	5,448	101	2,336	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total	670,030	7,212	155,940	2,559	55,580	
Sep Monthly Total	672,400	6,803	152,586	2,196	49,337	
Oct Monthly Total	711,400	7,384	168,896	3,142	72,414	
Nov Monthly Total						
Dec Monthly Total						
YTD Total	6,706,620	65,356	1,471,790	35,359	798,605	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3,690	132	1,852	
Aug Daily Avg.	21,614	240	5,169	83	1,793	
Sep Daily Avg.	22,413	227	5,086	73	1,645	
Oct Daily Avg.	22,948	238	5,448	101	2,336	
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	22,087	216	4,862	116	2,633	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
10/01/98	6 103	213	10,857	104	5,294	44	2,240	60	3,054	
10/02/98	5 453	183	8 343	64	2,911	22	1 001	42	1,910	
10/03/98	5 799	221	10 692	92	4,450	32	1,548	60	2,902	
10/04/98	6 777	236	13,310	88	4,974	48	2,713	40	2,261	
10/05/98	7 501	67	4,191	56	3,503	30	1,877	26	1,626	
10/06/98	6 420	102	5,441	120	6,425	48	2,570	72	3,855	
10/07/98	5 937	136	6,739	72	3,565	42	2,079	30	1,485	
10/08/98	6 306	163	8,560	114	5,996	30	1,578	84	4,418	
10/09/98	5 860	235	11,473	108	5,278	44	2,150	64	3,128	
10/10/98	5 886	187	9,180	102	5,007	40	1,964	62	3,044	
10/11/98	6 309	763	40,147	104	5,472	34	1,789	70	3,683	
10/12/98	5 773	22	1,065	80	3,852	36	1,733	44	2,118	
10/13/98	5 630	243	11,410	64	3,005	26	1,221	38	1,784	
10/14/98	5 207	213	9,270	72	3,127	30	1,303	42	1,824	
10/15/98	6 407	205	10,944	124	6,626	36	1,924	88	4,702	
10/16/98	5 725	223	10 669	90	4,297	32	1,528	58	2,769	
10/17/98	6 005	352	17,630	82	4,107	30	1,503	52	2,604	
10/18/98	6 753	233	13,098	102	5,745	40	2,253	62	3,492	
10/19/98	6 328	251	13 253	112	5,910	46	2 428	66	3,483	
10/20/98	6 542	257	14,001	98	5,347	40	2,182	58	3,164	
10/21/98	6 737	236	13,271	164	9,215	50	2,809	114	6,405	
10/22/98	4 193	297	10 386	132	4,616	54	1,888	78	2,728	
10/23/98	4 983	268	11,135	66	2,743	24	997	42	1,745	
10/24/98	6 114	322	16,418	108	5,507	36	1,836	72	3,671	
10/25/98	6 621	317	17,504	120	6,626	38	2,098	82	4,528	
10/26/98	6 896	212	12,170	130	7,476	44	2,530	86	4,946	
10/27/98	5 760	285	13,690	118	5,668	42	2,017	76	3,651	
10/28/98	5 688	194	9,218	114	5,408	58	2,752	56	2,657	
10/29/98	5 495	188	8,616	122	5,591	36	1,650	86	3,941	
10/30/98	7 009	252	14,739	122	7,132	44	2,572	78	4,560	
10/31/98	5 736	308	14,734	98	4,688	36	1,722	62	2,966	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
OCT Monthly Total	187 952	7,384	372,151	3,142	159,559	1,192	60,454	1,950	99,105	
OCT Daily Avg.	6 063	238	12,005	101	5,147	38	1,950	63	3,197	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188.998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194 039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163.458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127 344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total	177 022	7,212	361,499	2,559	122,466	1,158	55,147	1,401	67,318	
Sep Monthly Total	177.648	6,803	336,213	2,196	108,711	1,024	50,566	1,172	58,145	
Oct Monthly Total	187 952	7,384	372,151	3,142	159,559	1,192	60,454	1,950	99,105	
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	177 189	6,538	326,231	3,536	175,982	1,307	64,398	2,229	111,584	
YTD Monthly Total	1,772	65,381	3,262,307	35,362	1,759,819	13,072	643,976	22,290	1,115,842	

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	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6.750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6.259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5.435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.	5.620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5.449	248	11,291	96	4,320	38	1,724	58	2,595	
Jul Daily Avg.	4.108	189	8,132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.	5.710	240	11,661	83	3,951	37	1,779	45	2,172	
Sep Daily Avg.	5.922	227	11,207	73	3,624	34	1,686	39	1,938	
Oct Daily Avg.	6.063	238	12,005	101	5,147	38	1,950	63	3,197	
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	5.835	216	10,745	116	5,803	43	2,124	73	3,678	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5.229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2.079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2.230	40	791	10	186	8	149	2	37	
May Monthly Min	4.523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3.818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min	0.016	40	5	2	1	1	0	1	1	
Aug Monthly Min	4.911	156	6,375	40	1,813	20	980	16	725	
Sep Monthly Min	5.094	153	7,096	36	1,724	22	1,108	8	383	
Oct Monthly Min	4.193	22	1,065	56	2,743	22	997	26	1,485	
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.016	22	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7.432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7.583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6.740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7.281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6.623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8.753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max	7.059	396	19,842	158	8,310	74	3,062	114	5,996	
Sep Monthly Max	6.946	303	14,455	110	6,195	50	2,781	78	4,393	
Oct Monthly Max	7.501	763	40,147	164	9,215	58	2,809	114	6,405	
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	8.753	763	40,147	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6.103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5.736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%	6.042	256	12,771	100	4,746	46	2,230	56	2,663	
Sep Monthly 75%	6.236	258	13,096	94	4,505	40	1,956	54	2,732	
Oct Monthly 75%	6.481	262	13,500	119	5,828	44	2,246	77	3,769	
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	6.972	257	13,005	166	8,910	57	2,982	111	5,924	

NOTE: min, max, 75% values are selected per specific parameters not per day

Monthly Georgia Pacific Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
11/01/98	20,330	277	5,631	104	2,114	
11/02/98	23,050	265	6,105	100	2,305	
11/03/98	20,960	165	3,466	82	1,719	
11/04/98	20,770	105	2,186	58	1,205	
11/05/98	22,180	237	5,261	192	4,259	
11/06/98	22,430	270	6,056	136	3,050	
11/07/98	20,810	338	7,034	162	3,371	
11/08/98	19,620	372	7,299	130	2,551	
11/09/98	20,960	320	6,707	106	2,222	
11/10/98	19,210	268	5,148	82	1,575	
11/11/98	21,090	197	4,163	74	1,561	
11/12/98	20,150	347	6,992	106	2,136	
11/13/98	19,650	301	5,915	98	1,926	
11/14/98	21,630	265	5,732	108	2,336	
11/15/98	21,380	314	6,713	94	2,010	
11/16/98	21,460	286	6,138	126	2,704	
11/17/98	20,930	333	6,970	150	3,140	
11/18/98	21,480	338	7,260	128	2,749	
11/19/98	21,010	304	6,387	102	2,143	
11/20/98	18,810	364	6,847	98	1,843	
11/21/98	20,380	351	7,153	74	1,508	
11/22/98	21,250	266	5,653	88	1,870	
11/23/98	19,870	235	4,674	116	2,305	
11/24/98	21,280	256	5,453	104	2,213	
11/25/98	16,170	339	5,482	196	3,169	
11/26/98	22,500	330	7,425	172	3,870	
11/27/98	20,040	375	7,515	168	3,367	
11/28/98	20,300	536	10,881	172	3,492	
11/29/98	17,870	466	8,327	230	4,110	
11/30/98	20,210	372	7,518	142	2,870	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
NOV Monthly Total	617,780	9,194	188,091	3,698	75,692	
NOV Daily Avg.	20,593	306	6,270	123	2,523	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7,040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total	670,030	7,212	155,940	2,559	55,580	
Sep Monthly Total	672,400	6,803	152,586	2,196	49,337	
Oct Monthly Total	711,400	7,384	168,896	3,142	72,414	
Nov Monthly Total	617,780	9,194	188,091	3,698	75,692	
Dec Monthly Total						
YTD Total	7,324,400	74,550	1,659,881	39,057	874,296	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5,073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3,690	132	1,852	
Aug Daily Avg.	21,614	240	5,198	83	1,793	
Sep Daily Avg.	22,413	227	5,086	73	1,645	
Oct Daily Avg.	22,948	238	5,448	101	2,336	
Nov Daily Avg.	20,593	306	6,270	123	2,523	
Dec Daily Avg.						
YTD Daily Avg.	21,951	224	4,993	117	2,623	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
11/01/98	5 371	277	12,408	104	4,659	36	1,613	68	3,046	
11/02/98	6 090	265	13,453	100	5,079	46	2 336	54	2,743	
11/03/98	5 538	165	7,638	82	3,787	32	1,478	50	2,309	
11/04/98	5 487	105	4,816	58	2,654	20	915	38	1,739	
11/05/98	5 860	237	11,592	192	9,383	70	3,421	122	5 962	
11/06/98	5 926	270	13,344	136	6,722	38	1 878	98	4,843	
11/07/98	5 498	338	15,498	162	7,428	52	2,384	110	5,044	
11/08/98	5 184	372	16,082	130	5,620	60	2,594	70	3,026	
11/09/98	5 538	320	14,779	106	4,895	44	2 032	62	2,863	
11/10/98	5 075	268	11 344	82	3,471	34	1,439	48	2,032	
11/11/98	5 572	197	9,172	74	3,439	28	1,301	46	2,138	
11/12/98	5 324	347	15,406	106	4,706	38	1,687	68	3,019	
11/13/98	5 192	301	13,033	98	4,243	38	1 645	60	2,598	
11/14/98	5 715	265	12,630	108	5,147	44	2,097	64	3,050	
11/15/98	5 649	314	14 792	94	4,428	34	1,602	60	2,827	
11/16/98	5 670	286	13,524	126	5,958	48	2 270	78	3,688	
11/17/98	5 530	333	15,357	150	6,918	62	2,859	88	4,058	
11/18/98	5 675	338	15,997	128	6,058	42	1,988	86	4,070	
11/19/98	5 551	304	14,073	102	4,722	56	2 592	46	2,130	
11/20/98	4 970	364	15,087	98	4,062	46	1,907	52	2,155	
11/21/98	5 384	351	15,762	74	3,323	30	1,347	44	1,976	
11/22/98	5 614	266	12,455	88	4,120	36	1,686	52	2,435	
11/23/98	5 250	235	10,300	116	5,079	38	1,664	78	3,415	
11/24/98	5 622	256	12,015	104	4,876	14	656	90	4,220	
11/25/98	4 272	339	12,078	196	6,983	58	2,067	138	4,917	
11/26/98	5 945	330	16,360	172	8,527	46	2,281	126	6,247	
11/27/98	5 295	375	16 559	168	7,418	54	2 384	114	5 034	
11/28/98	5 363	536	23,975	172	7,693	58	2 594	114	5,099	
11/29/98	4 721	466	18 349	230	9,056	65	2 559	165	6,497	
11/30/98	5 339	372	16,566	142	6,323	50	2,227	92	4,097	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
NOV Monthly Total	163 217	9,194	414,446	3,698	166,781	1,317	59,504	2,381	107,277	
NOV Daily Avg.	5 441	306	13,815	123	5,559	44	1,983	79	3,576	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194,039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163 056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163,458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127,344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total	177 022	7,212	361,499	2,559	122,466	1,158	55,147	1,401	67,318	
Sep Monthly Total	177,648	6,803	336,213	2,196	108,711	1,024	50,566	1,172	58,145	
Oct Monthly Total	187 952	7 384	372,151	3,142	159,559	1,192	60,454	1,950	99,105	
Nov Monthly Total	163 217	9,194	414,446	3,698	166,781	1,317	59,504	2,381	107,277	
Dec Monthly Total										
YTD Monthly Avg	175 919	6,780	334,250	3,551	175,145	1,308	63,953	2,243	111,193	
YTD Monthly Total	1,935	74,575	3,676,752	39,060	1,926,600	14,389	703,480	24,671	1,223,120	

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	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7 038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6 750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6 259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5 435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.	5 620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5 449	248	11,291	96	4,320	38	1,724	58	2,595	
Jul Daily Avg.	4 108	189	8,132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.	5 710	240	11,661	83	3,951	37	1,779	45	2,172	
Sep Daily Avg.	5 922	227	11,207	73	3,624	34	1,686	39	1,938	
Oct Daily Avg.	6 063	238	12,005	101	5,147	38	1,950	63	3,197	
Nov Daily Avg.	5 441	306	13,815	123	5,559	44	1,983	79	3,576	
Dec Daily Avg.										
YTD Daily Avg.	5 799	224	11,024	117	5,781	43	2,112	74	3,669	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5 229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2 079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2 230	40	791	10	186	8	149	2	37	
May Monthly Min	4 523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3 818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min	0 016	40	5	2	1	1	0	1	1	
Aug Monthly Min	4 911	156	6 375	40	1,813	20	980	16	725	
Sep Monthly Min	5 094	153	7,096	36	1,724	22	1,108	8	383	
Oct Monthly Min	4 193	22	1,065	56	2,743	22	997	26	1,485	
Nov Monthly Min	4 272	105	4,816	58	2,654	14	656	38	1,739	
Dec Monthly Min										
YTD Monthly Min	0 016	22	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6 077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7 432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7 583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6,740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7 281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6.623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8 753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max	7 059	396	19,842	158	8,310	74	3,062	114	5,996	
Sep Monthly Max	6.946	303	14,455	110	6,195	50	2,781	78	4,393	
Oct Monthly Max	7.501	763	40,147	164	9,215	58	2,809	114	6,405	
Nov Monthly Max	6 090	536	23,975	230	9,383	70	3,421	165	6,497	
Dec Monthly Max										
YTD Monthly Max	8.753	763	40,147	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6.103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5.736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%	6.042	256	12,771	100	4,746	46	2,230	56	2,663	
Sep Monthly 75%	6,236	258	13,096	94	4,505	40	1,956	54	2,732	
Oct Monthly 75%	6.481	262	13,500	119	5,828	44	2,246	77	3,769	
Nov Monthly 75%	5.642	345	15,696	148	6,869	54	2,372	97	4,688	
Dec Monthly 75%										
YTD Monthly 75%	6,808	260	13,056	161	8,345	56	2,784	106	5,512	

NOTE: *min, max, 75% values are selected per specific parameters not per day*

Monthly Georgia Pacific Billing

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
12/01/98	19,260	334	6,433	120	2,311	
12/02/98	17,930	283	5,074	124	2,223	
12/03/98	21,210	381	8,081	144	3,054	
12/04/98	19,720	327	6,448	110	2,169	
12/05/98	21,990	781	17,174	146	3,211	
12/06/98	22,040	303	6,678	100	2,204	
12/07/98	20,680	289	5,977	96	1,985	
12/08/98	22,640	262	5,932	134	3,034	
12/09/98	19,290	205	3,954	108	2,083	
12/10/98	20,340	231	4,688	126	2,563	
12/11/98	19,590	289	5,662	152	2,978	
12/12/98	22,800	371	8,459	182	4,150	
12/13/98	22,870	238	5,453	134	3,065	
12/14/98	21,140	252	5,327	146	3,086	
12/15/98	21,320	273	5,820	156	3,326	
12/16/98	22,610	311	7,023	160	3,618	
12/17/98	23,490	236	5,542	158	3,711	
12/18/98	22,250	254	5,649	142	3,160	
12/19/98	22,480	257	5,777	136	3,057	
12/20/98	22,151	313	6,933	144	3,190	
12/21/98	22,539	40	902	188	4,237	
12/22/98	19,730	256	5,051	150	2,960	
12/23/98	20,340	423	8,604	170	3,458	
12/24/98	10,790	160	1,724	166	1,791	
12/25/98	9,960	40	400	34	339	
12/26/98	5,630	40	225	30	169	
12/27/98	9,460	40	378	72	681	
12/28/98	15,820	159	2,521	248	3,923	
12/29/98	14,530	154	2,234	148	2,150	
12/30/98	17,450	207	3,618	146	2,548	
12/31/98	18,260	260	4,740	154	2,812	

	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
DEC Monthly Total	590,310	7,968	162,483	4,224	83,245	
DEC Daily Avg.	19,042	257	5,241	136	2,685	

	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	825,750	5,906	157,258	5,739	155,482	
Feb Monthly Total	715,360	5,963	151,957	4,178	106,659	
Mar Monthly Total	734,440	5,071	127,134	3,955	101,169	
Apr Monthly Total	617,170	6,673	140,928	3,750	80,544	
May Monthly Total	659,380	7 040	148,960	2,867	61,191	
Jun Monthly Total	618,690	7,435	153,727	2,868	58,815	
Jul Monthly Total	482,000	5,868	114,402	4,104	57,414	
Aug Monthly Total	670,030	7,212	155,940	2,559	55,580	
Sep Monthly Total	672,400	6,803	152,586	2,196	49,337	
Oct Monthly Total	711,400	7,384	168,896	3,142	72,414	
Nov Monthly Total	617,780	9,194	188,091	3,698	75,692	
Dec Monthly Total	590,310	7,968	162,483	4,224	83,245	
YTD Total	7,914,710	82,518	1,822,364	43,281	957,542	

	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	26,637	191	5 073	185	5,016	
Feb Daily Avg.	25,549	213	5,427	149	3,809	
Mar Daily Avg.	23,692	164	4,101	128	3,264	
Apr Daily Avg.	20,572	222	4,698	125	2,685	
May Daily Avg.	21,270	227	4,805	92	1,974	
Jun Daily Avg.	20,623	248	5,124	96	1,961	
Jul Daily Avg.	15,548	189	3 690	132	1,852	
Aug Daily Avg.	21,614	240	5,198	83	1,793	
Sep Daily Avg.	22,413	227	5,086	73	1,645	
Oct Daily Avg.	22,948	238	5,448	101	2,336	
Nov Daily Avg.	20,593	306	6,270	123	2,523	
Dec Daily Avg.	19,042	257	5,241	136	2,685	
YTD Daily Avg.	21,708	227	5,013	119	2,628	

Georgia Pacific Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
12/01/98	5 088	334	14,174	120	5,093	40	1,698	80	3,395	
12/02/98	4 737	283	11,181	124	4,899	42	1,659	82	3,240	
12/03/98	5 604	381	17 806	144	6,730	60	2,804	84	3,926	
12/04/98	5 210	327	14,209	110	4,780	42	1,825	68	2,955	
12/05/98	5 810	781	37 842	146	7,074	60	2,907	86	4,167	
12/06/98	5 823	303	14 715	100	4,856	50	2,428	50	2 428	
12/07/98	5 464	289	13 169	96	4,374	40	1,823	56	2,552	
12/08/98	5 981	262	13,070	134	6 685	58	2,893	76	3,791	
12/09/98	5 096	205	8,713	108	4,590	40	1,700	68	2,890	
12/10/98	5 374	231	10 330	126	5,647	40	1,793	86	3,854	
12/11/98	5 176	289	12,475	152	6,561	62	2,676	90	3 885	
12/12/98	6 024	371	18 638	182	9,143	60	3,014	122	6,129	
12/13/98	6 042	238	12,016	134	6,753	38	1,915	96	4,838	
12/14/98	5 585	252	11,738	146	6,801	40	1,863	106	4 938	
12/15/98	5 633	273	12,825	156	7,328	50	2,349	106	4,980	
12/16/98	5 974	311	15,475	160	7,971	52	2,591	108	5,381	
12/17/98	6 206	236	12,212	158	8,178	50	2,588	108	5,590	
12/18/98	5 878	254	12,447	142	6,962	34	1,667	108	5,295	
12/19/98	5 939	257	12,730	136	6,736	38	1,882	98	4,854	
12/20/98	5 852	313	15 277	144	7,028	42	2,050	102	4,978	
12/21/98	5 955	40	1,987	188	9,337	48	2,384	140	6,953	
12/22/98	5 213	256	11,129	150	6,521	44	1,913	106	4,608	
12/23/98	5 374	423	18,958	170	7,619	76	3,406	94	4,213	
12/24/98	2 851	160	3,798	166	3,947	36	856	130	3,091	
12/25/98	2 631	40	882	34	746	2	44	32	702	
12/26/98	1 487	40	496	30	372	4	50	26	323	
12/27/98	2 499	40	834	72	1,501	20	417	52	1 084	
12/28/98	4 180	159	5,556	248	8 645	70	2 440	178	6,205	
12/29/98	3 839	154	4,922	148	4,738	46	1,473	102	3,266	
12/30/98	4 610	207	7,971	146	5,614		0	146	5,614	
12/31/98	4 824	260	10,445	154	6,196		0	154	6,196	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
DEC Monthly Total	155 960	7,968	358 020	4,224	183,425	1,284	57,107	2,940	126,318	
DEC Daily Avg.	5 031	257	11,549	136	5,917	44	1,842	95	4,075	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	218 163	5,906	346,508	5,739	342,593	1,783	105,024	3,957	237,570	
Feb Monthly Total	188 998	5,963	334,827	4,181	235,166	1,537	86,441	2,644	148,725	
Mar Monthly Total	194.039	5,096	281,559	3,955	222,919	1,335	73,930	2,621	148,988	
Apr Monthly Total	163.056	6,673	310,525	3,750	177,474	1,241	58,091	2,510	119,383	
May Monthly Total	174 208	7,040	328,224	2,867	134,829	1,183	55,724	1,685	79,105	
Jun Monthly Total	163 458	7,435	338,726	2,868	129,595	1,135	51,733	1,733	77,862	
Jul Monthly Total	127.344	5,868	252,077	4,104	126,507	1,486	46,867	2,619	79,640	
Aug Monthly Total	177.022	7,212	361,499	2,559	122,466	1,158	55,147	1,401	67,318	
Sep Monthly Total	177.648	6,803	336,213	2,196	108,711	1,024	50,566	1,172	58,145	
Oct Monthly Total	187.952	7,384	372,151	3,142	159,559	1,192	60,454	1,950	99,105	
Nov Monthly Total	163 217	9,194	414,446	3,698	166,781	1,317	59,504	2,381	107,277	
Dec Monthly Total	155.960	7,968	358,020	4,224	183,425	1,284	57,107	2,940	126,318	
YTD Monthly Avg	175 919	6,780	334,250	3,551	175,145	1,308	63,953	2,243	111,193	
YTD Monthly Total	1,935	82,543	4,034,772	43,284	2,110,025	15,673	760,587	27,611	1,349,438	

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	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	7.038	191	11,178	185	11,051	58	3,388	128	7,664	
Feb Daily Avg.	6.750	213	11,958	149	8,399	55	3,087	94	5,312	
Mar Daily Avg.	6.259	164	9,083	128	7,191	43	2,385	85	4,806	
Apr Daily Avg.	5.435	222	10,351	125	5,916	41	1,936	84	3,979	
May Daily Avg.	5.620	227	10,588	92	4,349	38	1,798	54	2,552	
Jun Daily Avg.	5.449	248	11,291	96	4,320	38	1,724	58	2,595	
Jul Daily Avg.	4.108	189	8,132	132	4,081	48	1,512	84	2,569	
Aug Daily Avg.	5.710	240	11,661	83	3,951	37	1,779	45	2,172	
Sep Daily Avg.	5.922	227	11,207	73	3,624	34	1,686	39	1,938	
Oct Daily Avg.	6.063	238	12,005	101	5,147	38	1,950	63	3,197	
Nov Daily Avg.	5.441	306	13,815	123	5,559	44	1,983	79	3,576	
Dec Daily Avg.	5.031	257	11,549	136	5,917	44	1,842	95	4,075	
YTD Daily Avg.	5.735	227	11,068	119	5,792	43	2,089	76	3,703	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Min	5.229	91	5,097	98	5,490	28	1,666	56	2,834	
Mar Monthly Min	2.079	34	694	12	214	4	71	2	86	
Apr Monthly Min	2.230	40	791	10	186	8	149	2	37	
May Monthly Min	4.523	152	7,162	52	2,533	20	974	20	1,034	
Jun Monthly Min	3.818	182	6,121	46	2,149	16	747	30	1,401	
July Monthly Min	0.016	40	5	2	1	1	0	1	1	
Aug Monthly Min	4.911	156	6,375	40	1,813	20	980	16	725	
Sep Monthly Min	5.094	153	7,096	36	1,724	22	1,108	8	383	
Oct Monthly Min	4.193	22	1,065	56	2,743	22	997	26	1,485	
Nov Monthly Min	1.487	40	496	30	372	2	0	26	323	
Dec Monthly Min	1.487	40	496	30	372	2	0	26	323	
YTD Monthly Min	0.016	22	5	2	1	1	0	1	1	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	6.077	155	8,434	98	5,770	22	1,367	54	3,086	
Feb Monthly Max	7.432	555	31,441	240	14,442	110	6,619	146	8,271	
Mar Monthly Max	7.583	249	15,040	230	14,459	73	4,575	160	10,059	
Apr Monthly Max	6.740	749	30,680	240	12,411	68	3,310	176	9,102	
May Monthly Max	7.281	285	12,868	173	8,475	67	3,381	114	6,039	
Jun Monthly Max	6.623	357	15,574	142	6,995	58	2,882	84	4,372	
July Monthly Max	8.753	352	15,853	668	8,543	176	3,797	492	5,362	
Aug Monthly Max	7.059	396	19,842	158	8,310	74	3,062	114	5,996	
Sep Monthly Max	6.948	303	14,455	110	6,195	50	2,781	78	4,393	
Oct Monthly Max	7.501	763	40,147	164	9,215	58	2,809	114	6,405	
Nov Monthly Max	6.206	781	37,842	248	9,337	76	3,406	178	6,953	
Dec Monthly Max	6.206	781	37,842	248	9,337	76	3,406	178	6,953	
YTD Monthly Max	8.753	781	40,147	668	14,459	176	6,619	492	10,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	7.188	202	12,524	205	12,197	65	3,617	149	8,863	
Feb Monthly 75%	7.135	222	12,719	177	9,476	60	3,196	115	6,337	
Mar Monthly 75%	7.301	207	11,961	171	9,936	59	3,420	120	7,096	
Apr Monthly 75 %	5.917	249	12,160	151	7,215	49	2,341	98	4,683	
May Monthly 75%	6.103	254	11,962	101	4,937	41	2,047	62	2,946	
Jun Monthly 75%	5.736	288	13,015	114	4,817	44	2,078	73	3,199	
Jul Monthly 75%	5.658	256	12,976	142	6,407	49	2,195	89	4,325	
Aug Monthly 75%	6.042	256	12,771	100	4,746	46	2,230	56	2,663	
Sep Monthly 75%	6.236	258	13,096	94	4,505	40	1,956	54	2,732	
Oct Monthly 75%	6.481	262	13,500	119	5,828	44	2,246	77	3,769	
Nov Monthly 75%	5.872	309	14,200	155	7,063	52	2,551	108	4,979	
Dec Monthly 75%	5.865	307	14,191	155	7,051	52	2,514	108	5,137	
YTD Monthly 75%	6.644	262	13,096	155	7,215	52	2,551	108	5,137	

NOTE: min, max, 75% values are selected per specific parameters not per day

1999

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/99	18,260	219	3,999	136	2,483
01/02/99	24,680	257	6,343	136	3,356
01/03/99	19,540	303	5,921	256	5,002
01/04/99	19,540	326	6,370	184	3,595
01/05/99	21,160	202	4,274	62	1,312
01/06/99	21,550	206	4,439	120	2,586
01/07/99	21,330	274	5,844	210	4,479
01/08/99	23,250	344	7,998	178	4,139
01/09/99	21,720	301	6,538	204	4,431
01/10/99	20,280	290	5,881	236	4,786
01/11/99	25,040	342	8,564	224	5,609
01/12/99	22,690	248	5,636	206	4,674
01/13/99	25,550	301	7,691	214	5,468
01/14/99	20,470	254	5,199	152	3,111
01/15/99	20,230	293	5,927	218	4,410
01/16/99	17,820	354	6,308	202	3,600
01/17/99	20,420	519	10,598	138	2,818
01/18/99	23,030	310	7,139	158	3,639
01/19/99	20,700	414	8,570	152	3,146
01/20/99	20,050	269	5,393	114	2,286
01/21/99	20,010	351	7,024	140	2,801
01/22/99	20,570	347	7,138	162	3,332
01/23/99	19,150	341	6,530	158	3,026
01/24/99	21,200	288	6,106	100	2,120
01/25/99	21,760	309	6,724	122	2,655
01/26/99	20,600	157	3,234	86	1,772
01/27/99	20,440	167	3,413	120	2,453
01/28/99	21,080	241	5,080	148	3,120
01/29/99	21,620	255	5,513	130	2,811
01/30/99	22,030	233	5,133	110	2,423
01/31/99	18,110	33	598	36	652
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	653,880		185,126		102,095
Daily Average	21,093	282	5,972	155	3,293

IPP

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/99	18,260	219	3,999	136	2,483
01/02/99	24,680	257	6,343	136	3,356
01/03/99	19,540	303	5,921	256	5,002
01/04/99	19,540	326	6,370	184	3,595
01/05/99	21,160	202	4,274	62	1,312
01/06/99	21,550	206	4,439	120	2,586
01/07/99	21,330	274	5,844	210	4,479
01/08/99	23,250	344	7,998	178	4,139
01/09/99	21,720	301	6,538	204	4,431
01/10/99	20,280	290	5,881	236	4,786
01/11/99	25,040	342	8,564	224	5,609
01/12/99	22,690	248	5,636	206	4,674
01/13/99	25,550	301	7,691	214	5,468
01/14/99	20,470	254	5,199	152	3,111
01/15/99	20,230	293	5,927	218	4,410
01/16/99	17,820	354	6,308	202	3,600
01/17/99	20,420	519	10,598	138	2,818
01/18/99	23,030	310	7,139	158	3,639
01/19/99	20,700	414	8,570	152	3,146
01/20/99	20,050	269	5,393	114	2,286
01/21/99	20,010	351	7,024	140	2,801
01/22/99	20,570	347	7,138	162	3,332
01/23/99	19,150	341	6,530	158	3,026
01/24/99	21,200	288	6,106	100	2,120
01/25/99	21,760	309	6,724	122	2,655
01/26/99	20,600	157	3,234	86	1,772
01/27/99	20,440	167	3,413	120	2,453
01/28/99	21,080	241	5,080	148	3,120
01/29/99	21,620	255	5,513	130	2,811
01/30/99	22,030	233	5,133	110	2,423
01/31/99	18,110	33	598	36	652
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	653,880		185,126		102,095
Daily Average	21,093	282	5,972	155	3,293
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	653,880		185,126		102,095
Feb Monthly Total					
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	653,880		185,126		102,095
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	38	39	40	41	42
Feb Daily Avg.					
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	38	39	40	41	42

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/99	10,780	40	431	28	302
02/02/99	9,400	40	376	38	357
02/03/99	8,510	56	473	132	1,123
02/04/99	15,260	213	3,250	248	3,784
02/05/99	22,150	223	4,939	150	3,323
02/06/99	20,330	262	5,326	168	3,415
02/07/99	22,160	237	5,252	146	3,235
02/08/99	21,500	240	5,160	144	3,096
02/09/99	20,860	261	5,444	154	3,212
02/10/99	20,870	241	5,030	128	2,671
02/11/99	21,130	204	4,311	124	2,620
02/12/99	21,400	290	6,206	120	2,568
02/13/99	19,460	399	7,765	100	1,946
02/14/99	21,930	268	5,877	192	4,211
02/15/99	24,210	328	7,941	116	2,808
02/16/99	22,930	323	7,406	148	3,394
02/17/99	25,660	178	4,567	214	5,491
02/18/99	26,710	275	7,345	224	5,983
02/19/99	23,320	275	6,413	164	3,824
02/20/99	20,640	306	6,316	144	2,972
02/21/99	18,260	326	5,953	108	1,972
02/22/99	19 360	380	7,357	124	2,401
02/23/99	19,720	282	5,561	138	2,721
02/24/99	21,700	247	5,360	122	2,647
02/25/99	19,890	260	5,171	132	2,625
02/26/99	20,560	288	5,921	152	3,125
02/27/99	21,060	300	6,318	148	3,117
02/28/99	20,210	340	6,871	92	1,859

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	559,970		148,342		80,806
Daily Average	19,999	253	5,298	139	2,886

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	653,880		185,126		102,095
Feb Monthly Total	559,970		148,342		80,806
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,213,850		333,468		182,901
YTD Mon. Tot. Avg.	606,925		166,734		91,451

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,093	282	5,972	155	3,293
Feb Daily Avg.	19,999	253	5,298	139	2,886
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	20,546	268	5,635	147	3,090

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/99	22,400	352	7,885	134	3,002
03/02/99	20,170	303	6,112	126	2,541
03/03/99	20,220	223	4,509	164	3,316
03/04/99	20,740	266	5,517	148	3,070
03/05/99	20,050	278	5,574	142	2,847
03/06/99	18,340	289	5,300	178	3,265
03/07/99	20,160	283	5,705	146	2,943
03/08/99	22,050	257	5,667	130	2,867
03/09/99	21,110	247	5,214	140	2,958
03/10/99	23,300	198	4,613	262	6,105
03/11/99	18,920	243	4,598	178	3,368
03/12/99	21,190	298	6,315	138	2,924
03/13/99	18,300	416	7,613	162	2,965
03/14/99	18,940	467	8,845	164	3,106
03/15/99	21,000	376	7,896	134	2,814
03/16/99	20,170	343	6,918	90	1,815
03/17/99	19,620	270	5,297	116	2,276
03/18/99	23,140	171	3,957	92	2,129
03/19/99	21,420	215	4,605	90	1,928
03/20/99	22,550	282	6,359	124	2,796
03/21/99	20,200	250	5,050	90	1,818
03/22/99	22,990	202	4,644	124	2,851
03/23/99	24,850	203	5,045	138	3,429
03/24/99	26,740	214	5,722	108	2,888
03/25/99	24,110	207	4,991	172	4,147
03/26/99	19,610	362	7,099	128	2,510
03/27/99	21,170	356	7,537	134	2,837
03/28/99	22,350	411	9,186	134	2,995
03/29/99	21,580	375	8,093	138	2,978
03/30/99	20,730	269	5,576	122	2,529
03/31/99	21,160	355	7,512	122	2,582
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	659,280		188,953		90,597
Daily Average	21,267	290	6,095	138	2,922

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/99	21,520	348	7,489	108	2,324
04/02/99	20,050	226	4,531	136	2,727
04/03/99	21,630	244	5,278	118	2,552
04/04/99	22,240	270	6,005	44	979
04/05/99	23,070	224	5,168	112	2,584
04/06/99	23,950	199	4,766	130	3,114
04/07/99	22,000	152	3,344	112	2,464
04/08/99	22,400	280	6,272	128	2,867
04/09/99	22,490	275	6,185	138	3,104
04/10/99	20,620	282	5,815	122	2,516
04/11/99	21,210	274	5,812	132	2,800
04/12/99	21,720	364	7,906	126	2,737
04/13/99	23,060	216	4,981	176	4,059
04/14/99	19,440	169	3,285	124	2,411
04/15/99	26,510	282	7,476	144	3,817
04/16/99	22,060	310	6,839	120	2,647
04/17/99	20,510	318	6,522	132	2,707
04/18/99	21,610	219	4,733	100	2,161
04/19/99	24,080	343	8,259	86	2,071
04/20/99	21,940	242	5,309	112	2,457
04/21/99	22,260	255	5,676	120	2,671
04/22/99	23,160	316	7,319	170	3,937
04/23/99	24,050	251	6,037	158	3,800
04/24/99	19,300	352	6,794	100	1,930
04/25/99	22,000	352	7,744	134	2,948
04/26/99	21,000	348	7,308	124	2,604
04/27/99	23,700	240	5,688	146	3,460
04/28/99	23,930	344	8,232	116	2,776
04/29/99	20,000	306	6,120	126	2,520
04/30/99	21,760	385	8,378	134	2,916
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	663,270		185,269		82,659
Daily Average	22,109	280	6,176	124	2,755

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
05/01/99	22,240	337	7,495	94	2,091
05/02/99	22,000	353	7,766	128	2,816
05/03/99	18,570	371	6,889	114	2,117
05/04/99	20,570	421	8,660	154	3,168
05/05/99	20,420	282	5,758	106	2,165
05/06/99	24,630	104	2,562	46	1,133
05/07/99	6,320	103	651	64	404
05/08/99	2,070	67	139	44	91
05/09/99	1,700	67	114	44	75
05/10/99	920	34	31	34	31
05/11/99	3,000	27	80	32	96
05/12/99	3,800	32	122	30	114
05/13/99	11,640	75	873	136	1,583
05/14/99	21,860	166	3,629	246	5,378
05/15/99	20,500	226	4,633	182	3,731
05/16/99	20,810	179	3,725	108	2,247
05/17/99	19,390	129	2,501	104	2,017
05/18/99	23,140	289	6,687	134	3,101
05/19/99	20,000	175	3,500	108	2,160
05/20/99	21,500	232	4,988	116	2,494
05/21/99	18,500	204	3,774	96	1,776
05/22/99	19,740	220	4,343	178	3,514
05/23/99	21,920	269	5,896	114	2,499
05/24/99	23,810	250	5,953	94	2,238
05/25/99	21,780	163	3,550	134	2,919
05/26/99	21,010	228	4,790	96	2,017
05/27/99	21,960	203	4,458	144	3,162
05/28/99	23,460	251	5,888	122	2,862
05/29/99	25,020	260	6,505	104	2,602
05/30/99	19,140	273	5,225	92	1,761
05/31/99	20,080	277	5,562	86	1,727
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	541,500		126,748		64,087
Daily Average	17,468	202	4,089	106	2,067

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
06/01/99	19,720	191	3,767	86	1,696
06/02/99	21,360	230	4,913	84	1,794
06/03/99	20,110	223	4,485	82	1,649
06/04/99	19,220	250	4,805	114	2,191
06/05/99	22,600	256	5,786	126	2,848
06/06/99	21,100	215	4,537	120	2,532
06/07/99	21,970	188	4,130	116	2,549
06/08/99	23,070	226	5,214	92	2,122
06/09/99	23,740	145	3,442	90	2,137
06/10/99	23,150	262	6,065	138	3,195
06/11/99	22,100	285	6,299	124	2,740
06/12/99	21,820	127	2,771	80	1,746
06/13/99	21,660	260	5,632	104	2,253
06/14/99	24,460	271	6,629	110	2,691
06/15/99	21,340	202	4,311	98	2,091
06/16/99	25,750	214	5,511	98	2,524
06/17/99	19,640	231	4,537	90	1,768
06/18/99	20,320	284	5,771	102	2,073
06/19/99	22,490	281	6,320	90	2,024
06/20/99	20,040	157	3,146	106	2,124
06/21/99	16,880	276	4,659	100	1,688
06/22/99	20,200	282	5,696	92	1,858
06/23/99	19,200	233	4,474	136	2,611
06/24/99	19,760	238	4,703	138	2,727
06/25/99	22,010	282	6,207	88	1,937
06/26/99	22,640	136	3,079	86	1,947
06/27/99	19,690	191	3,761	126	2,481
06/28/99	17,370	151	2,623	50	869
06/29/99	20,380	25	510	22	448
06/30/99	16,490	28	462	26	429
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	630,280		134,240		61,740
Daily Average	21,009	211	4,475	97	2,058

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
07/01/99	5,900	36	212	32	189
07/02/99	670	36	24	32	21
07/03/99	680	36	24	60	41
07/04/99	7,000	36	252	54	378
07/05/99	3,790	33	125	32	121
07/06/99	12,910	101	1,304	210	2,711
07/07/99	22,180	178	3,948	180	3,992
07/08/99	23,330	277	6,462	122	2,846
07/09/99	22,590	191	4,315	126	2,846
07/10/99	18,960	260	4,930	56	1,062
07/11/99	20,560	224	4,605	56	1,151
07/12/99	20,360	230	4,683	130	2,647
07/13/99	21,050	166	3,494	128	2,694
07/14/99	20,490	268	5,491	108	2,213
07/15/99	20,790	286	5,946	138	2,869
07/16/99	20,700	283	5,858	94	1,946
07/17/99	19,600	284	5,566	74	1,450
07/18/99	21,010	123	2,584	102	2,143
07/19/99	20,010	148	2,961	112	2,241
07/20/99	20,790	241	5,010	86	1,788
07/21/99	22,620	280	6,334	92	2,081
07/22/99	22,310	108	2,409	94	2,097
07/23/99	20,810	172	3,579	108	2,247
07/24/99	20,420	157	3,206	96	1,960
07/25/99	22,090	125	2,761	90	1,988
07/26/99	27,390	85	2,331	234	6,409
07/27/99	27,670	66	1,837	126	3,486
07/28/99	26,330	138	3,634	170	4,476
07/29/99	26,780	245	6,561	124	3,321
07/30/99	23,960	203	4,864	74	1,773
07/31/99	22,810	113	2,578	145	3,307
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	586,560		107,891		68,498
Daily Average	18,921	165	3,480	106	2,210

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/99	19,460	189	3,678	102	1,985
09/02/99	20,280	266	5,394	196	3,975
09/03/99	21,650	234	5,066	170	3,681
09/04/99	20,150	222	4,473	134	2,700
09/05/99	18,825	180	3,392	132	2,489
09/06/99	18,825	180	3,392	132	2,489
09/07/99	21,930	237	5,197	146	3,202
09/08/99	21,710	129	2,801	96	2,084
09/09/99	20,600	100	2,052	172	3,543
09/10/99	22,000	184	4,048	218	4,796
09/11/99	20,940	206	4,314	208	4,356
09/12/99	23,000	131	3,013	138	3,174
09/13/99	21,020	124	2,606	154	3,237
09/14/99	20,740	162	3,360	152	3,152
09/15/99	21,320	108	2,303	88	1,876
09/16/99	19,760	158	3,122	132	2,608
09/17/99	20,110	205	4,123	164	3,298
09/18/99	20,700	217	4,492	232	4,802
09/19/99	21,180	188	3,982	228	4,829
09/20/99	19,410	191	3,707	212	4,115
09/21/99	23,300	116	2,703	262	6,105
09/22/99	19,810	144	2,853	212	4,200
09/23/99	20,000	169	3,380	198	3,960
09/24/99	20,500	151	3,096	204	4,182
09/25/99	21,300	250	5,325	188	4,004
09/26/99	20,760	153	3,176	162	3,363
09/27/99	22,810	139	3,171	144	3,285
09/28/99	21,000	157	3,297	128	2,688
09/29/99	19,680	135	2,657	106	2,086
09/30/99	20,460	150	3,069	190	3,887
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	623,230		107,241		104,152
Daily Average	20,774	172	3,575	167	3,472

IPP

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/99	22,390	175	3,918	258	5,777
10/02/99	19,410	219	4,251	164	3,183
10/03/99	20,000	175	3,500	120	2,400
10/04/99	21,450	117	2,510	180	3,861
10/05/99	21,690	88	1,913	168	3,644
10/06/99	21,110	121	2,554	166	3,504
10/07/99	18,910	73	1,386	176	3,328
10/08/99	22,450	102	2,290	204	4,580
10/09/99	19,980	210	4,196	132	2,637
10/10/99	17,140	101	1,731	28	480
10/11/99	17,670	89	1,573	48	848
10/12/99	17,540	101	1,772	28	491
10/13/99	17,060	92	1,568	50	853
10/14/99	18,250	78	1,425	24	438
10/15/99	17,940	70	1,252	24	431
10/16/99	20,060	152	3,049	128	2,568
10/17/99	22,440	196	4,398	200	4,488
10/18/99	20,520	222	4,555	132	2,709
10/19/99	19,560	98	1,907	158	3,090
10/20/99	19,730	150	2,960	192	3,788
10/21/99	23,280	158	3,678	192	4,470
10/22/99	20,930	159	3,328	206	4,312
10/23/99	19,710	124	2,444	174	3,430
10/24/99	18,980	144	2,733	146	2,771
10/25/99	23,790	128	3,045	224	5,329
10/26/99	20,630	101	2,084	100	2,063
10/27/99	21,310	131	2,792	122	2,600
10/28/99	20,250	141	2,855	132	2,673
10/29/99	20,857	172	3,587	148	3,087
10/30/99	20,857	172	3,587	167	3,483
10/31/99	20,856	172	3,587	167	3,483
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	626,750		86,429		90,798
Daily Average	20,218	136	2,788	141	2,929

IPP

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/99	22,390	175	3,918	258	5,777
10/02/99	19,410	219	4,251	164	3,183
10/03/99	20,000	175	3,500	120	2,400
10/04/99	21,450	117	2,510	180	3,861
10/05/99	21,690	88	1,913	168	3,644
10/06/99	21,110	121	2,554	166	3,504
10/07/99	18,910	73	1,386	176	3,328
10/08/99	22,450	102	2,290	204	4,580
10/09/99	19,980	210	4,196	132	2,637
10/10/99	17,140	101	1,731	28	480
10/11/99	17,670	89	1,573	48	848
10/12/99	17,540	101	1,772	28	491
10/13/99	17,060	92	1,568	50	853
10/14/99	18,250	78	1,425	24	438
10/15/99	17,940	70	1,252	24	431
10/16/99	20,060	152	3,049	128	2,568
10/17/99	22,440	196	4,398	200	4,488
10/18/99	20,520	222	4,555	132	2,709
10/19/99	19,560	98	1,907	158	3,090
10/20/99	19,730	150	2,960	192	3,788
10/21/99	23,280	158	3,678	192	4,470
10/22/99	20,930	159	3,328	206	4,312
10/23/99	19,710	124	2,444	174	3,430
10/24/99	18,980	144	2,733	146	2,771
10/25/99	23,790	128	3,045	224	5,329
10/26/99	20,630	101	2,084	100	2,063
10/27/99	21,310	131	2,792	122	2,600
10/28/99	20,250	141	2,855	132	2,673
10/29/99	20,857	172	3,587	148	3,087
10/30/99	20,857	172	3,587	167	3,483
10/31/99	20,856	172	3,587	167	3,483

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	626,750		86,429		90,798
Daily Average	20,218	136	2,788	141	2,929

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	653,880		185,126		102,095
Feb Monthly Total	559,970		148,342		80,806
Mar Monthly Total	659,280		188,953		90,597
Apr Monthly Total	663,270		185,269		82,659
May Monthly Total	541,500		126,748		64,087
Jun Monthly Total	630,280		134,240		61,740
Jul Monthly Total	586,560		107,891		68,498
Aug Monthly Total	686,070		122,916		90,665
Sep Monthly Total	629,843		107,980		105,027
Oct Monthly Total	626,750		86,429		90,798
Nov Monthly Total					
Dec Monthly Total					
YTD Total	6,237,403		1,393,894		836,971
YTD Mon. Tot. Avg.	623,740		139,389		83,697

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,093	282	5,972	155	3,293
Feb Daily Avg.	19,999	253	5,298	139	2,886
Mar Daily Avg.	21,267	290	6,095	138	2,922
Apr Daily Avg.	22,109	280	6,176	124	2,755
May Daily Avg.	17,468	202	4,089	106	2,067
Jun Daily Avg.	21,009	211	4,475	97	2,058
Jul Daily Avg.	18,921	165	3,480	106	2,210
Aug Daily Avg.	22,131	180	3,965	132	2,925
Sep Daily Avg.	20,995	172	3,599	167	3,501
Oct Daily Avg.	20,218	136	2,788	141	2,929
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	20,521	217	4,594	130	2,755

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/99	21,050	241	5,073	138	2,905
11/02/99	20,890	201	4,199	138	2,883
11/03/99	20,090	254	5,103	160	3,214
11/04/99	20,150	321	6,468	178	3,587
11/05/99	18,700	259	4,843	138	2,581
11/06/99	20,370	228	4,644	138	2,811
11/07/99	23 530	107	2,518	190	4,471
11/08/99	20,600	147	3,028	80	1,648
11/09/99	22,750	53	1,210	36	819
11/10/99	21,000	110	2,310	20	420
11/11/99	19,100	146	2,789	146	2,789
11/12/99	19,460	138	2,685	162	3,153
11/13/99	19,900	157	3,124	172	3,423
11/14/99	19,650	190	3,734	174	3,419
11/15/99	19,800	191	3,782	140	2,772
11/16/99	20,130	89	1,792	108	2,174
11/17/99	19,890	288	5,728	220	4,376
11/18/99	21,760	186	4,047	208	4,526
11/19/99	19,420	132	2,563	140	2,719
11/20/99	22,420	127	2,847	116	2,601
11/21/99	24,280	136	3,314	141	3,413
11/22/99	26,960	103	2,777	186	5,015
11/23/99	21,290	228	4,854	174	3,704
11/24/99	18,460	151	2,787	92	1,698
11/25/99	11 080	27	294	22	244
11/26/99	10,000	10	100	22	220
11/27/99	9,740	13	127	14	136
11/28/99	11,280	16	180	26	293
11/29/99	20,130	94	1,892	250	5,033
11/30/99	26,510	121	3,208	252	6,681

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	590,390		92,021		83,726
Daily Average	19,680	149	3,067	133	2,791

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	653,880		185,126		102,095
Feb Monthly Total	559,970		148,342		80,806
Mar Monthly Total	659,280		188,953		90,597
Apr Monthly Total	663,270		185,269		82,659
May Monthly Total	541,500		126,748		64,087
Jun Monthly Total	630,280		134,240		61,740
Jul Monthly Total	586,560		107,891		68,498
Aug Monthly Total	686,070		122,916		90,665
Sep Monthly Total	629,843		107,980		105,027
Oct Monthly Total	626,750		86,429		90,798
Nov Monthly Total	590,390		92,021		83,726
Dec Monthly Total					
YTD Total	6,827,793		1,485,916		920,697
YTD Mon. Tot. Avg.	620,708		135,083		83,700

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,093	282	5,972	155	3,293
Feb Daily Avg.	19,999	253	5,298	139	2,886
Mar Daily Avg.	21,267	290	6,095	138	2,922
Apr Daily Avg.	22,109	280	6,176	124	2,755
May Daily Avg.	17,468	202	4,089	106	2,067
Jun Daily Avg.	21,009	211	4,475	97	2,058
Jul Daily Avg.	18,921	165	3,480	106	2,210
Aug Daily Avg.	22,131	180	3,965	132	2,925
Sep Daily Avg.	20,995	172	3,599	167	3,501
Oct Daily Avg.	20,218	136	2,788	141	2,929
Nov Daily Avg.	19,680	149	3,067	133	2,791
Dec Daily Avg.					
YTD Daily Avg.	20,445	211	4,455	131	2,758

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/99	22,230	170	3,779	256	5,691
12/02/99	24 010	112	2,689	258	6,195
12/03/99	19,730	134	2,644	256	5,051
12/04/99	21 310	253	5,391	236	5 029
12/05/99	23 140	149	3,448	160	3,702
12/06/99	20,950	81	1,697	226	4,735
12/07/99	20,380	269	5 482	244	4,973
12/08/99	20,390	192	3,915	242	4,934
12/09/99	20,550	263	5,405	260	5,343
12/10/99	20 750	285	5,914	314	6,516
12/11/99	21,660	333	7,213	234	5,068
12/12/99	20,180	265	5,348	148	2,987
12/13/99	21,070	291	6,131	296	6,237
12/14/99	23,910	235	5,619	308	7,364
12/15/99	20,600	92	1,885	284	5,850
12/16/99	19,950	200	3,990	260	5,187
12/17/99	19,250	221	4,254	282	5,429
12/18/99	20,460	216	4,419	268	5,483
12/19/99	21,640	96	2,082	130	2,813
12/20/99	19 840	81	1,607	68	1,349
12/21/99	18,300	19	348	28	512
12/22/99	20,170	120	2,420	214	4,316
12/23/99	21 910	316	6,924	264	5,784
12/24/99	21,280	103	2,192	92	1,958
12/25/99	19,640	18	354	42	825
12/26/99	11,100	10	111	58	644
12/27/99	22,490	121	2 721	236	5,308
12/28/99	19,590	164	3,213	268	5,250
12/29/99	20,310	214	4,346	140	2,843
12/30/99	20,610	129	2,659	118	2,432
12/31/99	19,250	213	4,100	146	2,811

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	636,650		112,299		132,619
Daily Average	20,537	173	3,623	204	4,278

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	653,880		185,126		102,095
Feb Monthly Total	559,970		148,342		80,806
Mar Monthly Total	659,280		188,953		90,597
Apr Monthly Total	663,270		185,269		82,659
May Monthly Total	541,500		126,748		64,087
Jun Monthly Total	630 280		134,240		61,740
Jul Monthly Total	586,560		107,891		68,498
Aug Monthly Total	686,070		122,916		90,665
Sep Monthly Total	629,843		107,980		105,027
Oct Monthly Total	626,750		86,429		90,798
Nov Monthly Total	590,390		92,021		83,726
Dec Monthly Total	636,650		112,299		132,619
YTD Total	7,464,443		1,598,215		1,053,316
YTD Mon. Tot. Avg.	622 037		133,185		87,776

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,093	282	5,972	155	3,293
Feb Daily Avg.	19,999	253	5,298	139	2,886
Mar Daily Avg.	21,267	290	6,095	138	2,922
Apr Daily Avg.	22,109	280	6,176	124	2,755
May Daily Avg.	17,468	202	4,089	106	2,067
Jun Daily Avg.	21,009	211	4,475	97	2,058
Jul Daily Avg.	18,921	165	3,480	106	2,210
Aug Daily Avg.	22,131	180	3,965	132	2,925
Sep Daily Avg.	20,774	172	3,575	167	3,472
Oct Daily Avg.	20,218	136	2,788	141	2,929
Nov Daily Avg.	19,680	149	3,067	133	2,791
Dec Daily Avg.	20,537	173	3,623	204	4,278
YTD Daily Avg.	20,434	208	4,383	137	2,882

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GEORGIA PACIFIC CORP - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/00	19,000	264	5,016	120	2,280
01/02/00	17,500	230	4,025	208	3,640
01/03/00	19,950	188	3,751	122	2,434
01/04/00	19,460	157	3,055	154	2,997
01/05/00	21,520	201	4,326	172	3,701
01/06/00	19,140	239	4,574	304	5,819
01/07/00	20,630	307	6,333	216	4,456
01/08/00	20,570	192	3,949	388	7,981
01/09/00	20,160	219	4,415	164	3,306
01/10/00	19,610	29	569	114	2,236
01/11/00	19,980	93	1,848	162	3,237
01/12/00	19,970	91	1,813	132	2,636
01/13/00	20,170	184	3,711	118	2,380
01/14/00	19,620	200	3,924	180	3,532
01/15/00	21,330	141	3,008	160	3,413
01/16/00	20,590	248	5,106	182	3,747
01/17/00	20,180	269	5,428	160	3,229
01/18/00	23,570	252	5,940	190	4,478
01/19/00	20,070	141	2,830	182	3,653
01/20/00	21,580	173	3,733	204	4,402
01/21/00	20,840	261	5,439	202	4,210
01/22/00	20,150	130	2,620	220	4,433
01/23/00	25,260	195	4,926	172	4,345
01/24/00	23,460	146	3,425	108	2,534
01/25/00	22,650	152	3,443	140	3,171
01/26/00	24,270	128	3,107	16	388
01/27/00	21,970	146	3,208	136	2,988
01/28/00	23,090	108	2,494	122	2,817
01/29/00	21,770	100	2,170	228	4,964
01/30/00	21,930	95	2,086	184	4,035
01/31/00	24,050	193	4,642	240	5,772

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	654,040		114,913		113,213
Daily Average	21,098	176	3,707	174	3,652

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/00	20,710	179	3,707	354	7,331
02/02/00	22,330	95	2,121	264	5,895
02/03/00	21,610	177	3,825	316	6,829
02/04/00	19,840	113	2,242	132	2,619
02/05/00	19,310	113	2,182	124	2,394
02/06/00	19,960	46	910	150	2,994
02/07/00	20,810	247	5,140	192	3,996
02/08/00	21,940	258	5,661	220	4,827
02/09/00	18,920	216	4,087	196	3,708
02/10/00	18,470	59	1,093	188	3,472
02/11/00	21,620	259	5,600	196	4,238
02/12/00	18,230	142	2,589	148	2,698
02/13/00	20,580	274	5,639	120	2,470
02/14/00	21,500	66	1,421	120	2,580
02/15/00	19,540	254	4,963	132	2,579
02/16/00	16,010	207	3,314	212	3,394
02/17/00	17,770	242	4,300	152	2,701
02/18/00	18,200	142	2,584	168	3,058
02/19/00	17,810	224	3,989	156	2,778
02/20/00	17,950	417	7,485	184	3,303
02/21/00	17,910	342	6,125	112	2,006
02/22/00	18,020	281	5,064	176	3,172
02/23/00	18,570	218	4,048	172	3,194
02/24/00	18,960	386	7,319	124	2,351
02/25/00	18,160	131	2,379	92	1,671
02/26/00	19,840	67	1,319	128	2,540
02/27/00	18,190	296	5,384	132	2,401
02/28/00	17,390	184	3,200	124	2,156
02/29/00	16,230	1,200	19,476	70	1,136
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	556,380		127,167		94,490
Daily Average	19,186	236	4,385	167	3,258

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	BOD, kg/	TSS, mg/L	TSS, kg/d
02/01/00	20,710	179	3 707	354	7,331
02/02/00	22,330	95	2,121	264	5,895
02/03/00	21,610	177	3 825	316	6,829
02/04/00	19,840	113	2,242	132	2,619
02/05/00	19 310	113	2,182	124	2,394
02/06/00	19,960	46	910	150	2,994
02/07/00	20,810	247	5,140	192	3,996
02/08/00	21,940	258	5,661	220	4,827
02/09/00	18,920	216	4,087	196	3,708
02/10/00	18,470	59	1 093	188	3,472
02/11/00	21 620	259	5,600	196	4,238
02/12/00	18,230	142	2 589	148	2,698
02/13/00	20,580	274	5,639	120	2,470
02/14/00	21,500	66	1,421	120	2,580
02/15/00	19,540	254	4 963	132	2,579
02/16/00	16,010	207	3 314	212	3,394
02/17/00	17,770	242	4 300	152	2 701
02/18/00	18,200	142	2,584	168	3,058
02/19/00	17 810	224	3 989	156	2 778
02/20/00	17 950	417	7 485	184	3,303
02/21/00	17 910	342	6,125	112	2,006
02/22/00	18,020	281	5,064	176	3,172
02/23/00	18,570	218	4,048	172	3,194
02/24/00	18,960	386	7,319	124	2,351
02/25/00	18,160	131	2,379	92	1,671
02/26/00	19,840	67	1,319	128	2,540
02/27/00	18,190	296	5,384	132	2,401
02/28/00	17,390	184	3,200	124	2,156
02/29/00	16,230	1,200 ←	19 476	70	1,136

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	556,380		127,167		94,490
Daily Average	19,186	236	4,385	167	3,258

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114 913		113 213
Feb Monthly Total	556,380		127,167		94,490
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,210,420		242,080		207,703
YTD Mon. Tot. Avg.	605,210		121,040		103,851

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19 186	236	4,385	167	3,258
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	20 142	206	4 046	171	3,455

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/00	18,020	114	2,054	128	2,307
03/02/00	15,570	264	4,110	186	2,896
03/03/00	17,520	316	5,536	146	2,558
03/04/00	17,810	167	2,974	148	2,636
03/05/00	20,770	185	3,842	154	3,199
03/06/00	20,930	193	4,039	168	3,516
03/07/00	19,690	109	2,146	238	4,686
03/08/00	23,700	124	2,939	174	4,124
03/09/00	23,430	156	3,655	88	2,062
03/10/00	15,390	88	1,357	98	1,508
03/11/00	17,950	210	3,770	112	2,010
03/12/00	17,490	268	4,687	128	2,239
03/13/00	17,440	441	7,691	162	2,825
03/14/00	17,600	405	7,128	174	3,062
03/15/00	18,740	141	2,642	206	3,860
03/16/00	16,960	195	3,307	116	1,967
03/17/00	18,360	125	2,295	268	4,920
03/18/00	14,990	171	2,563	188	2,818
03/19/00	16,450	225	3,701	116	1,908
03/20/00	16,550	228	3,773	172	2,847
03/21/00	19,640	249	4,890	114	2,239
03/22/00	16,800	59	986	196	3,293
03/23/00	16,660	225	3,749	216	3,599
03/24/00	18,960	192	3,640	252	4,778
03/25/00	16,240	314	5,099	184	2,988
03/26/00	15,670	361	5,657	148	2,319
03/27/00	17,870	408	7,291	144	2,573
03/28/00	18,320	371	6,797	108	1,979
03/29/00	20,000	346	6,920	124	2,480
03/30/00	16,400	300	4,920	132	2,165
03/31/00	15,150	185	2,803	40	606
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	557,070		126,965		86,967
Daily Average	17,970	230	4,096	156	2,805

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	BOD, kg/	TSS, mg/L	TSS, kg/d
03/01/00	18,020	114	2,054	128	2,307
03/02/00	15,570	264	4,110	186	2,896
03/03/00	17,520	316	5,536	146	2,558
03/04/00	17,810	167	2,974	148	2,636
03/05/00	20,770	185	3,842	154	3,199
03/06/00	20,930	193	4,039	168	3,516
03/07/00	19,690	109	2,146	238	4,686
03/08/00	23,700	124	2,939	174	4,124
03/09/00	23,430	156	3,655	88	2,062
03/10/00	15,390	88	1,357	98	1 508
03/11/00	17,950	210	3,770	112	2,010
03/12/00	17,490	268	4,687	128	2,239
03/13/00	17,440	441	7,691	162	2,825
03/14/00	17,600	405	7,128	174	3,062
03/15/00	18,740	141	2,642	206	3,860
03/16/00	16,960	195	3,307	116	1,967
03/17/00	18,360	125	2,295	268	4,920
03/18/00	14,990	171	2,563	188	2,818
03/19/00	16,450	225	3,701	116	1,908
03/20/00	16,550	228	3,773	172	2,847
03/21/00	19,640	249	4,890	114	2,239
03/22/00	16,800	59	986	196	3,293
03/23/00	16,660	225	3,749	216	3,599
03/24/00	18,960	192	3,640	252	4,778
03/25/00	16,240	314	5,099	184	2,988
03/26/00	15,670	361	5,657	148	2,319
03/27/00	17,870	408	7,291	144	2,573
03/28/00	18,320	371	6,797	108	1,979
03/29/00	20,000	346	6,920	124	2,480
03/30/00	16,400	300	4,920	132	2,165
03/31/00	15,150	185	2,803	40	606

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	557,070		126,965		86,967
Daily Average	17,970	230	4,096	156	2,805

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		127,167		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,767,490		369,045		294,670
YTD Mon. Tot. Avg.	589,163		123,015		98,223

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	236	4,385	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	19,418	214	4,063	166	3,239

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/00	16,420	150	2,463	168	2,759
04/02/00	17,320	364	6,304	180	3,118
04/03/00	18,320	415	7,603	96	1,759
04/04/00	15,930	333	5,305	112	1,784
04/05/00	19,610	426	8,354	76	1,490
04/06/00	17,000	360	6,120	160	2,720
04/07/00	18,430	368	6,782	180	3,317
04/08/00	16,700	343	5,728	122	2,037
04/09/00	15,860	366	5,805	252	3,997
04/10/00	20,120	342	6,881	264	5,312
04/11/00	18,890	294	5,554	168	3,174
04/12/00	19,130	166	3,176	76	1,454
04/13/00	18,530	272	5,040	320	5,930
04/14/00	19,640	221	4,340	324	6,363
04/15/00	18,330	390	7,149	156	2,859
04/16/00	16,470	427	7,033	184	3,030
04/17/00	17,030	409	6,965	380	6,471
04/18/00	18,090	381	6,892	204	3,690
04/19/00	20,600	318	6,551	220	4,532
04/20/00	16,620	292	4,853	160	2,659
04/21/00	17,720	409	7,247	144	2,552
04/22/00	17,510	409	7,162	308	5,393
04/23/00	17,130	471	8,068	360	6,167
04/24/00	16,750	370	6,198	160	2,680
04/25/00	22,620	373	8,437	208	4,705
04/26/00	17,310	375	6,491	264	4,570
04/27/00	22,520	366	8,242	236	5,315
04/28/00	21,590	338	7,297	232	5,009
04/29/00	16,930	447	7,568	160	2,709
04/30/00	15,720	410	6,445	148	2,327
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	544,840		192,054		109,881
Daily Average	18,161	354	6,402	201	3,663

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		127,167		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,312,330		561,099		404,551
YTD Mon. Tot. Avg.	578,083		140,275		101,138

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	236	4,385	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	19,104	249	4 647	175	3,345

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
05/01/00	17,460	438	7,647	156	2,724
05/02/00	16,600	444	7,370	148	2,457
05/03/00	16,200	338	5,476	144	2,333
05/04/00	17,720	399	7,070	144	2,552
05/05/00	19,580	383	7,499	176	3,446
05/06/00	18,310	352	6,445	88	1,611
05/07/00	16,560	313	5,183	152	2,517
05/08/00	17,220	420	7,232	152	2,617
05/09/00	19,200	309	5,933	108	2,074
05/10/00	15,940	363	5,786	120	1,913
05/11/00	17,410	387	6,738	104	1,811
05/12/00	18,660	387	7,221	164	3,060
05/13/00	16,200	343	5,557	112	1,814
05/14/00	18,030	412	7,428	160	2,885
05/15/00	14,390	199	2,864	128	1,842
05/16/00	580	0	0	0	0
05/17/00	0	0	0	0	0
05/18/00	2,570	32	82	56	144
05/19/00	2,200	22	48	44	97
05/20/00	540	17	9	32	17
05/21/00	9,240	14	129	90	832
05/22/00	14,510	140	2,031	264	3,831
05/23/00	16,970	331	5,617	312	5,295
05/24/00	15,240	389	5,928	228	3,475
05/25/00	16,980	546	9,271	152	2,581
05/26/00	16,600	215	3,569	116	1,926
05/27/00	16,900	345	5,831	116	1,960
05/28/00	17,050	377	6,428	140	2,387
05/29/00	16,120	391	6,303	148	2,386
05/30/00	14,910	404	6,024	112	1,670
05/31/00	17,790	305	5,426	196	3,487
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	437,680		146,592		65,741
Daily Average	14,119	291	4,908	131	2,121

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		127,167		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,750,010		707,691		470,293
YTD Mon. Tot. Avg.	550,002		141,538		94,059

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	236	4,385	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	18,107	261	4,664	168	3,100

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
06/01/00	16,700	368	6,146	108	1,804
06/02/00	16,800	441	7,409	124	2,083
06/03/00	16,520	394	6,509	80	1,322
06/04/00	19,030	296	5 633	84	1,599
06/05/00	16,360	172	2,814	108	1,767
06/06/00	16,030	179	2,869	92	1,475
06/07/00	16,280	272	4,428	60	977
06/08/00	16,590	278	4,612	160	2,654
06/09/00	16,730	298	4,986	84	1,405
06/10/00	16,720	309	5,166	108	1,806
06/11/00	14,270	399	5,694	240	3,425
06/12/00	16,010	417	6,676	132	2,113
06/13/00	17,370	409	7,104	156	2,710
06/14/00	18,300	322	5,893	148	2,708
06/15/00	16,620	364	6,050	112	1,861
06/16/00	16,190	461	7,464	224	3,627
06/17/00	17,560	353	6,199	84	1,475
06/18/00	14,110	330	4,656	136	1,919
06/19/00	18,110	310	5,614	104	1,883
06/20/00	17,010	211	3,589	132	2,245
06/21/00	17,430	230	4,009	172	2,998
06/22/00	16,300	319	5,200	88	1,434
06/23/00	20,580	232	4,775	76	1,564
06/24/00	16,700	181	3,023	36	601
06/25/00	14,260	281	4,007	124	1,768
06/26/00	16,580	362	6,002	120	1,990
06/27/00	17,830	356	6,347	140	2,496
06/28/00	16,800	252	4,234	160	2,688
06/29/00	17,040	353	6,015	160	2,726
06/30/00	17,680	367	6,489	140	2,475

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	504,510		159,610		61,599
Daily Average	16,817	317	5,320	123	2,053

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159,610		61,599
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	3,254,520		851,476		531,892
YTD Mon. Tot. Avg.	542,420		141 913		88,649

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3,839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	17,892	265	4,682	160	2,925

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
07/01/00	16,500	350	5,775	140	2,310
07/02/00	16,050	329	5,280	104	1,669
07/03/00	16,560	382	6,326	132	2,186
07/04/00	21,900	652	14,279	124	2,716
07/05/00	9,550	77	733	88	840
07/06/00	300	0	0	0	0
07/07/00	0	0	0	0	0
07/08/00	40	0	0	0	0
07/09/00	4,760	72	343	80	381
07/10/00	18,410	72	1,326	80	1,473
07/11/00	12,580	72	911	80	1,006
07/12/00	15,440	208	3,212	208	3,212
07/13/00	14,740	246	3,626	36	531
07/14/00	16,980	271	4,602	104	1,766
07/15/00	15,730	248	3,901	120	1,888
07/16/00	15,050	326	4,906	144	2,167
07/17/00	16,510	398	6,571	110	1,816
07/18/00	15,920	336	5,349	132	2,101
07/19/00	18,690	328	6,130	140	2,617
07/20/00	17,760	444	7,885	184	3,268
07/21/00	19,260	350	6,741	120	2,311
07/22/00	18,290	388	7,097	180	3,292
07/23/00	17,220	365	6,285	144	2,480
07/24/00	18,340	380	6,969	228	4,182
07/25/00	16,910	436	7,373	168	2,841
07/26/00	17,250	357	6,158	160	2,760
07/27/00	18,350	353	6,478	136	2,496
07/28/00	16,950	362	6,136	132	2,237
07/29/00	16,900	243	4,107	148	2,501
07/30/00	15,740	269	4,234	144	2,267
07/31/00	15,680	242	3,795	164	2,572
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	454,360		146,527		61,884
Daily Average	14,657	276	4,727	120	1,996

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159,610		61,599
Jul Monthly Total	454,360		146,527		61,884
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	3,708,880		998,003		593,776
YTD Mon. Tot. Avg.	529,840		142,572		84,825

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3,839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.	14,657	276	4,727	120	1,996
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	17,430	267	4,689	154	2,793

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/00	14,600	218	3,183	128	1,869
08/02/00	18,000	348	6,264	156	2,808
08/03/00	17 520	413	7,236	192	3,364
08/04/00	16,420	382	6,272	184	3,021
08/05/00	17,510	348	6,093	92	1,611
08/06/00	17,210	377	6,488	232	3,993
08/07/00	17,140	396	6,787	136	2,331
08/08/00	18,760	322	6,041	204	3,827
08/09/00	18,270	267	4,878	148	2,704
08/10/00	16,460	227	3,736	244	4,016
08/11/00	18,760	232	4,352	240	4,502
08/12/00	17,570	154	2,706	72	1,265
08/13/00	15,850	163	2,584	204	3,233
08/14/00	18,620	215	4,003	240	4,469
08/15/00	19,990	234	4,678	136	2,719
08/16/00	25,270	152	3,841	148	3,740
08/17/00	25,140	141	3,545	116	2,916
08/18/00	17,790	278	4,946	192	3,416
08/19/00	18,880	291	5,494	116	2,190
08/20/00	17,120	279	4,776	240	4,109
08/21/00	18,860	397	7,487	292	5,507
08/22/00	19,690	378	7,443	288	5 671
08/23/00	17,170	286	4,911	168	2,885
08/24/00	19,700	270	5,319	220	4,334
08/25/00	18,700	332	6,208	232	4,338
08/26/00	16,860	291	4,906	100	1,686
08/27/00	18,300	388	7,100	284	5,197
08/28/00	17,560	455	7,990	116	2,037
08/29/00	17,270	359	6,200	92	1,589
08/30/00	18,160	289	5,248	232	4,213
08/31/00	18,250	460	8,395	244	4,453
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	567,400		169,112		104,013
Daily Average	18,303	301	5,455	183	3,355

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159 610		61 599
Jul Monthly Total	454,360		146,527		61,884
Aug Monthly Total	567,400		169,112		104,013
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	4,276,280		1,167,115		697,789
YTD Mon. Tot. Avg.	534,535		145,889		87,224

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3 839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.	14,657	276	4,727	120	1,996
Aug Daily Avg.	18,303	301	5,455	183	3,355
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	17,539	271	4,784	158	2 863

PHARMICIA & UPJOHN CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d
09/01/00	13,040	2,100	27,384	1,200	15,648	42	541
09/02/00	12,470	1,760	21 947	1,200	14,964	44	546
09/03/00	12,260	1,770	21,700	740	9,072	26	322
09/04/00	12,301	2,500	30,753	1,360	16,729	43	532
09/05/00	13,268	1,860	24,678	880	11,676	58	766
09/06/00	12,697	2,360	29,965	1,040	13,205	37	473
09/07/00	15,937	1,920	30,599	860	13,706	56	888
09/08/00	13,571	1,750	23,749	780	10,585	50	672
09/09/00	14,050	1,810	25,431	640	8,992	52	734
09/10/00	20,763	1,380	28,653	530	11,004	32	654
09/11/00	16,040	1,610	25,824	800	12,832	46	730
09/12/00	16,897	1,940	32,780	1,000	16,897	49	824
09/13/00	13,198	1,980	26,132	980	12,934	50	653
09/14/00	20,695	2,090	43,253	860	17,798	33	673
09/15/00	11,837	2,300	27,225	980	11,600	35	408
09/16/00	12,981	1,700	22,068	700	9,087	58	750
09/17/00	12,714	1,890	24,029	620	7,883	35	445
09/18/00	12,959	2,080	26,955	1,120	14,514	34	441
09/19/00	14,321	2,310	33,082	980	14,035	57	809
09/20/00	17,623	1,710	30,135	740	13,041	40	705
09/21/00	13,307	2,660	35,397	620	8,250	67	885
09/22/00	11,534	2,700	31,142	1,000	11,534	55	629
09/23/00	13,182	1,960	25,837	940	12,391	45	590
09/24/00	13,531	1,560	21,108	510	6,901	48	646
09/25/00	12,527	2,020	25,305	1,000	12,527	44	554
09/26/00	13,020	2,890	37,628	1,660	21,613	60	784
09/27/00	11,977	2,460	29,463	1,280	15,331	69	826
09/28/00	14,089	1,810	25,501	1,380	19,443	49	683
09/29/00	13,660	2,420	33,057	1,880	25,681	47	639
09/30/00	16,286	2,102	34,233	1,300	21,172	38	615
Monthly GWRP Flow =		2,028	M3				
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg	NH3, mg/L	NH3, kg
Monthly Total	422,735		855,013		411,045		19,417
Daily Avg.	14,091	2,047	28,500	986	13,701	46	647

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg	NH3, mg/L	NH3, kg
Jan Monthly Total	382,957		453,074		348,485		14,295
Feb Monthly Total	384,562		552,098		396,348		14,923
Mar Monthly Total	397,771		560,138		311,574		13,787
Apr Monthly Total	352,769		813,222		341,652		17,928
May Monthly Total	402,150		901,997		408,088		18,279
Jun Monthly Total	410,598		864,296		400,709		21 354
Jul Monthly Total	391,934		528,554		198,576		11,644
Aug Monthly Total	430,830		907,939		479,395		22,962
Sep Monthly Total	422,735		855,013		411,045		19,417
Oct Monthly Total							
Nov Monthly Total							
Dec Monthly Total							
YTD Total	3,576,306		6,436,330		3,295,871		154,589
YTD Mon. Tot. Avg.	397,367		715,148		366,208		17,177

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg	NH3, mg/L	NH3, kg
Jan Daily Avg.	12,353	1,171	14,615	889	11,241	37	461
Feb Daily Avg.	13,261	1,442	19,038	1,031	13,667	39	515
Mar Daily Avg.	12,831	1,426	18,069	794	10,051	35	445
Apr Daily Avg.	11,759	2,310	27,107	977	11,388	51	598
May Daily Avg.	12,973	2,331	29,097	1,015	13,164	46	590
Jun Daily Avg.	13,687	2,120	28,810	976	13,357	52	712
Jul Daily Avg.	12,643	1,309	17,050	482	6,406	29	376
Aug Daily Avg.	13,898	2,117	29,288	1,120	15,464	53	741
Sep Daily Avg.	14,091	2,047	28,500	986	13,701	46	647
Oct Daily Avg.							
Nov Daily Avg.							
Dec Daily Avg.							
YTD Daily Avg.	13,055	1,808	23 508	919	12 049	43	565

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/00	17,410	457	7,956	256	4,457
10/02/00	18,000	394	7,092	216	3,888
10/03/00	20,800	378	7,862	204	4,243
10/04/00	18,830	251	4,726	132	2,486
10/05/00	17,880	216	3,862	120	2,146
10/06/00	22,780	341	7,768	196	4,465
10/07/00	18,940	406	7,690	228	4,318
10/08/00	19,460	507	9,866	220	4,281
10/09/00	2,320	195	452	408	947
10/10/00	310	20	6	5	2
10/11/00	70	20	1	5	0
10/12/00	100	20	2	5	1
10/13/00	10	20	0	5	0
10/14/00	0	0	0	0	0
10/15/00	6,070	20	121	5	30
10/16/00	16,520	194	3,205	304	5,022
10/17/00	17,770	345	6,131	336	5,971
10/18/00	19,420	307	5,962	176	3,418
10/19/00	18,800	385	7,238	244	4,587
10/20/00	18,070	338	6,108	168	3,036
10/21/00	18,330	325	5,957	248	4,546
10/22/00	17,820	398	7,092	332	5,916
10/23/00	18,930	434	8,216	216	4,089
10/24/00	17,570	351	6,167	168	2,952
10/25/00	18,420	271	4,992	168	3,095
10/26/00	17,940	404	7,248	172	3,086
10/27/00	17,570	395	6,940	208	3,655
10/28/00	19,710	403	7,943	244	4,809
10/29/00	19,080	448	8,548	228	4,350
10/30/00	15,970	463	7,394	212	3,386
10/31/00	17,630	379	6,682	200	3,526
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	452,530		163,229		96,705
Daily Average	14,598	293	5,265	182	3,120

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159,610		61,599
Jul Monthly Total	454,360		146,527		61,884
Aug Monthly Total	567,400		169,112		104,013
Sep Monthly Total	576,100		207,790		127,805
Oct Monthly Total	452,530		163,229		96,705
Nov Monthly Total					
Dec Monthly Total					
YTD Total	5,304,910		1,538,133		922,299
YTD Mon. Tot. Avg.	530,491		153,813		92,230

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3,839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.	14,657	276	4,727	120	1,996
Aug Daily Avg.	18,303	301	5,455	183	3,355
Sep Daily Avg.	19,203	360	6,926	222	4,260
Oct Daily Avg.	14,598	293	5,265	182	3,120
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	17,411	282	5,047	167	3,028

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/00	17,440	302	5,267	200	3,488
11/02/00	18,730	398	7,455	252	4,720
11/03/00	15,960	475	7,581	172	2,745
11/04/00	16,950	349	5,916	164	2,780
11/05/00	17,940	292	5,238	116	2,081
11/06/00	19,180	293	5,620	204	3,913
11/07/00	16,980	239	4,058	272	4,619
11/08/00	16,990	347	5,896	216	3,670
11/09/00	17,200	407	7,000	220	3,784
11/10/00	18,440	273	5,034	112	2,065
11/11/00	15,150	221	3,348	264	4,000
11/12/00	16,420	197	3,235	144	2,364
11/13/00	17,750	366	6,497	177	3,136
11/14/00	17,520	460	8,059	228	3,995
11/15/00	18,530	384	7,116	203	3,767
11/16/00	16,620	353	5,867	204	3,390
11/17/00	19,090	367	7,006	292	5,574
11/18/00	15,860	434	6,883	328	5,202
11/19/00	16,870	370	6,242	264	4,454
11/20/00	17,200	434	7,465	280	4,816
11/21/00	18,020	453	8,163	188	3,388
11/22/00	26,400	358	9,451	176	4,646
11/23/00	11,030	323	3,563	196	2,162
11/24/00	9,480	50	474	108	1,024
11/25/00	9,230	55	508	92	849
11/26/00	9,050	46	416	52	471
11/27/00	16,190	165	2,671	208	3,368
11/28/00	15,700	287	4,506	236	3,705
11/29/00	16,880	286	4,828	244	4,119
11/30/00	14,690	397	5,832	176	2,585
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	493,490		161,193		100,880
Daily Average	16,450	313	5,373	200	3,363

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159,610		61,599
Jul Monthly Total	454,360		146,527		61,884
Aug Monthly Total	567,400		169,112		104,013
Sep Monthly Total	576,100		207,790		127,805
Oct Monthly Total	*452,530*		*163,229*		*96,705*
Nov Monthly Total	493,490		161,193		100,880
Dec Monthly Total					
YTD Total	5,798,400		1,699,327		1,023,178
YTD Mon. Tot. Avg.	527,127		154,484		93,016

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3,839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.	14,657	276	4,727	120	1,996
Aug Daily Avg.	18,303	301	5,455	183	3,355
Sep Daily Avg.	19,203	360	6,926	222	4,260
Oct Daily Avg.	14,598	293	5,265	182	3,120
Nov Daily Avg.	16,450	313	5,373	200	3,363
Dec Daily Avg.					
YTD Daily Avg.	17,324	285	5,076	170	3,059

GEORGIA PACIFIC CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/00	16,110	350	5,639	220	3,544
12/02/00	16,240	351	5,700	288	4,677
12/03/00	16,780	399	6,695	244	4,094
12/04/00	15,550	285	4,432	164	2,550
12/05/00	17,030	171	2,912	208	3,542
12/06/00	17,060	317	5,408	176	3,003
12/07/00	17,850	266	4,748	312	5,569
12/08/00	18,200	396	7,207	264	4,805
12/09/00	19,500	282	5,499	240	4,680
12/10/00	17,090	413	7,058	228	3,897
12/11/00	19,310	462	8,921	188	3,630
12/12/00	19,050	390	7,430	220	4,191
12/13/00	18,470	387	7,148	180	3,325
12/14/00	17,030	354	6,029	176	2,997
12/15/00	21,170	452	9,569	136	2,879
12/16/00	21,370	285	6,090	308	6,582
12/17/00	19,820	364	7,214	248	4,915
12/18/00	23,010	395	9,089	208	4,786
12/19/00	21,740	196	4,261	172	3,739
12/20/00	23,200	257	5,962	196	4,547
12/21/00	21,880	573	12,537	570	12,472
12/22/00	5,080	112	569	1,596	8,108
12/23/00					
12/24/00					
12/25/00					
12/26/00					
12/27/00					
12/28/00					
12/29/00					
12/30/00					
12/31/00					
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	402,540		140,118		102,533
Daily Average	18,297	339	6,369	297	4,661

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	654,040		114,913		113,213
Feb Monthly Total	556,380		111,343		94,490
Mar Monthly Total	557,070		126,965		86,967
Apr Monthly Total	544,840		192,054		109,881
May Monthly Total	437,680		146,592		65,741
Jun Monthly Total	504,510		159,610		61,599
Jul Monthly Total	454,360		146,527		61,884
Aug Monthly Total	567,400		169,112		104,013
Sep Monthly Total	576,100		207,790		127,805
Oct Monthly Total	452,530		163,229		96,705
Nov Monthly Total	493,490		161,193		100,880
Dec Monthly Total	402,540		140,118		102,533
YTD Total	6,200,940		1,839,445		1,125,711
YTD Mon. Tot. Avg.	516,745		153,287		93,809

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	21,098	176	3,707	174	3,652
Feb Daily Avg.	19,186	202	3,839	167	3,258
Mar Daily Avg.	17,970	230	4,096	156	2,805
Apr Daily Avg.	18,161	354	6,402	201	3,663
May Daily Avg.	14,119	311	4,729	140	2,121
Jun Daily Avg.	16,817	317	5,320	123	2,053
Jul Daily Avg.	14,657	276	4,727	120	1,996
Aug Daily Avg.	18,303	301	5,455	183	3,355
Sep Daily Avg.	19,203	360	6,926	222	4,260
Oct Daily Avg.	14,598	293	5,265	182	3,120
Nov Daily Avg.	16,450	313	5,373	200	3,363
Dec Daily Avg.	18,297	339	6,369	297	4,661
YTD Daily Avg.	17,405	289	5,184	180	3,192

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GEORGIA PACIFIC CORP. - BILLING						
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
01/01/01	0		0		0	
01/02/01	0		0		0	
01/03/01	0		0		0	
01/04/01	0		0		0	
01/05/01	0		0		0	
01/06/01	0		0		0	
01/07/01	0		0		0	
01/08/01	0		0		0	
01/09/01	0		0		0	
01/10/01	0		0		0	
01/11/01	0		0		0	
01/12/01	0		0		0	
01/13/01	0		0		0	
01/14/01	0		0		0	
01/15/01	0		0		0	
01/16/01	0		0		0	
01/17/01	0		0		0	
01/18/01	0		0		0	
01/19/01	0		0		0	
01/20/01	0		0		0	
01/21/01	0		0		0	
01/22/01	0		0		0	
01/23/01	0		0		0	
01/24/01	0		0		0	
01/25/01	0		0		0	
01/26/01	0		0		0	
01/27/01	0		0		0	
01/28/01	0		0		0	
01/29/01	0		0		0	
01/30/01	0		0		0	
01/31/01	0		0		0	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	0		0		0	
Daily Average	0	ERR	0	ERR	0	

Geo Pac 2001	FLOW, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg	Comments
Jan Monthly Total	0		0		0	
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	0		0		0	
YTD Monthly Avg.	0		0		0	

Geo Pac 2001	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Jan Daily Avg.	0	ERR	0	ERR	0	
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	0	ERR	0	ERR	0	

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
02/01/01	0		0		0	
02/02/01	0		0		0	
02/03/01	0		0		0	
02/04/01	0		0		0	
02/05/01	0		0		0	
02/06/01	100		0		0	
02/07/01	0		0		0	
02/08/01	0		0		0	
02/09/01	0		0		0	
02/10/01	0		0		0	
02/11/01	0		0		0	
02/12/01	0		0		0	
02/13/01	8 270		0		0	
02/14/01	0		0		0	
02/15/01	0		0		0	
02/16/01	0		0		0	
02/17/01	0		0		0	
02/18/01	0		0		0	
02/19/01	0		0		0	
02/20/01	16 680		0		0	
02/21/01	0		0		0	
02/22/01	0		0		0	
02/23/01	0		0		0	
02/24/01	0		0		0	
02/25/01	0		0		0	
02/26/01	0		0		0	
02/27/01	4 180		0		0	
02/28/01	0		0		0	

	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	**29,230**		**0**		**0**	
Daily Average	1 044	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total	0		0		0	
Feb Monthly Total	29 230		0		0	
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	29 230		0		0	
YTD Monthly Avg.	14 615		0		0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18 297	339	6 369	297	4 661	
Jan Daily Avg.	0	0	0	0	0	
Feb Daily Avg.	1 044	0	0	0	0	
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	522	0	0	0	0	

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
03/01/01	0		0		0	
03/02/01	0		0		0	
03/03/01	0		0		0	
03/04/01	0		0		0	
03/05/01	0		0		0	
03/06/01	11 940		0		0	
03/07/01	0		0		0	
03/08/01	0		0		0	
03/09/01	0		0		0	
03/10/01	0		0		0	
03/11/01	0		0		0	
03/12/01	0		0		0	
03/13/01	80		0		0	
03/14/01	0		0		0	
03/15/01	0		0		0	
03/16/01	0		0		0	
03/17/01	0		0		0	
03/18/01	0		0		0	
03/19/01	0		0		0	
03/20/01	10		0		0	
03/21/01	0		0		0	
03/22/01	0		0		0	
03/23/01	0		0		0	
03/24/01	0		0		0	
03/25/01	0		0		0	
03/26/01	0		0		0	
03/27/01	40		0		0	
03/28/01	0		0		0	
03/29/01	0		0		0	
03/30/01	0		0		0	
03/31/01	0		0		0	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	12,070		0		0	
Daily Average	389	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total	0		0		0	
Feb Monthly Total	29 230		0		0	
Mar Monthly Total	12 070		0		0	
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	41 300		0		0	
YTD Monthly Avg.	13 767		0		0	

Geo Pac 2001	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18 297	339	6 369	297	4 661	
Jan Daily Avg.	0	0	0	0	0	
Feb Daily Avg.	1,044	0	0	0	0	
Mar Daily Avg.	389	0	0	0	0	
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	478	0	0	0	0	

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
06/01/01	0		0		0	
06/02/01	0		0		0	
06/03/01	0		0		0	
06/04/01	0		0		0	
06/05/01	0		0		0	
06/06/01	0		0		0	
06/07/01	0		0		0	
06/08/01	0		0		0	
06/09/01	0		0		0	
06/10/01	0		0		0	
06/11/01	0		0		0	
06/12/01	0		0		0	
06/13/01	0		0		0	
06/14/01	5,140		0		0	
06/15/01	0		0		0	
06/16/01	0		0		0	
06/17/01	0		0		0	
06/18/01	0		0		0	
06/19/01	1,150		0		0	
06/20/01	0		0		0	
06/21/01	0		0		0	
06/22/01	0		0		0	
06/23/01	0		0		0	
06/24/01	0		0		0	
06/25/01	0		0		0	
06/26/01	0		0		0	
06/27/01	0		0		0	
06/28/01	0		0		0	
06/29/01	0		0		0	
06/30/01	0		0		0	
	0		0		0	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	6,290		0		0	
Daily Average	203	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total						
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	0		0		0	
YTD Monthly Avg.	#DIV/0!		#DIV/0!		#DIV/0!	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18,297	339	6,369	297	4,661	
Jan Daily Avg.						
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

GEORGIA PACIFIC CORP, - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
08/01/01	-130,019		0		0	
08/02/01	0		0		0	
08/03/01	0		0		0	
08/04/01	0		0		0	
08/05/01	0		0		0	
08/06/01	0		0		0	
08/07/01	0		0		0	
08/08/01	0		0		0	
08/09/01	0		0		0	
08/10/01	0		0		0	
08/11/01	0		0		0	
08/12/01	0		0		0	
08/13/01	0		0		0	
08/14/01	0		0		0	
08/15/01	0		0		0	
08/16/01	0		0		0	
08/17/01	0		0		0	
08/18/01	0		0		0	
08/19/01	0		0		0	
08/20/01	0		0		0	
08/21/01	0		0		0	
08/22/01	0		0		0	
08/23/01	0		0		0	
08/24/01	0		0		0	
08/25/01	0		0		0	
08/26/01	0		0		0	
08/27/01	0		0		0	
08/28/01	0		0		0	
08/29/01	0		0		0	
08/30/01	0		0		0	
08/31/01	265,655		0		0	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	135,636		0		0	
Daily Average	4,375	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total						
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	0		0		0	
YTD Monthly Avg.	#DIV/0!		#DIV/0!		#DIV/0!	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18,297	339	6,369	297	4,661	
Jan Daily Avg.						
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

GEORGIA PACIFIC CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
11/01/01	0		0		0	
11/02/01	0		0		0	
11/03/01	0		0		0	
11/04/01	0		0		0	
11/05/01	0		0		0	
11/06/01	7,070		0		0	
11/07/01	0		0		0	
11/08/01	0		0		0	
11/09/01	0		0		0	
11/10/01	0		0		0	
11/11/01	0		0		0	
11/12/01	0		0		0	
11/13/01	0		0		0	
11/14/01	0		0		0	
11/15/01	0		0		0	
11/16/01	0		0		0	
11/17/01	0		0		0	
11/18/01	0		0		0	
11/19/01	0		0		0	
11/20/01	0		0		0	
11/21/01	0		0		0	
11/22/01	0		0		0	
11/23/01	0		0		0	
11/24/01	0		0		0	
11/25/01	0		0		0	
11/26/01	0		0		0	
11/27/01	0		0		0	
11/28/01	0		0		0	
11/29/01	0		0		0	
11/30/01	0		0		0	
	0		0		0	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	7,070		0		0	
Daily Average	228	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total						
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	0		0		0	
YTD Monthly Avg.	#DIV/0!		#DIV/0!		#DIV/0!	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18,297	339	6,369	297	4,661	
Jan Daily Avg.						
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
12/01/01	0		0		0	
12/02/01	0		0		0	
12/03/01	0		0		0	
12/04/01	6,300		0		0	
12/05/01	0		0		0	
12/06/01	0		0		0	
12/07/01	0		0		0	
12/08/01	0		0		0	
12/09/01	0		0		0	
12/10/01	0		0		0	
12/11/01	840		0		0	
12/12/01	0		0		0	
12/13/01	0		0		0	
12/14/01	0		0		0	
12/15/01	0		0		0	
12/16/01	0		0		0	
12/17/01	0		0		0	
12/18/01	0		0		0	
12/19/01	0		0		0	
12/20/01	0		0		0	
12/21/01	0		0		0	
12/22/01	0		0		0	
12/23/01	0		0		0	
12/24/01	0		0		0	
12/25/01	0		0		0	
12/26/01	0		0		0	
12/27/01	0		0		0	
12/28/01	0		0		0	
12/29/01	0		0		0	
12/30/01	0		0		0	
12/31/01	0		0		0	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	7,140		0		0	
Daily Average	230	#DIV/0!	0	#DIV/0!	0	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	402,540		140,118		102,533	
Jan Monthly Total						
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	0		0		0	
YTD Monthly Avg.	#DIV/0!		#DIV/0!		#DIV/0!	

Geo Pac 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	18,297	339	6,369	297	4,661	
Jan Daily Avg.						
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

James River
Fort James
Graphic Packaging

1993

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	6,573	46	302.4	511	3,359.0
April	2	4,521	68	307.4	380	1,717.6
April	3	4,925	52	256.1	456	2,244.9
April	4	4,232	46	194.7	510	2,159.9
April	5	6,321	72	455.1	560	3,542.9
April	6	5,358	150	803.7	477	2,554.4
April	7	4,300	54	232.2	476	2,048.7
April	8	5,801	56	324.9	440	2,552.5
April	9	5,059	42	212.5	383	1,937.0
April	10	4,473	50	223.7	506	2,265.4
April	11	5,723	44	251.8	462	2,644.7
April	12	6,894	68	468.8	450	3,098.9
April	13	7,148	58	414.6	463	3,307.3
April	14	7,729	96	742.0	372	2,874.9
April	15	8,296	48	398.2	466	3,869.2
April	16	7238	52	376.4	366	2,652.3
April	17	6,631	34	225.5	413	2,740.5
April	18	8,274	50	413.7	357	2,954.6
April	19	7,094	60	425.6	298	2,115.1
April	20	7,497	86	644.7	283	2,124.0
April	21	8,373	56	468.9	338	2,830.0
April	22	4,521	50	226.1	320	1,446.1
April	23	7,166	60	430.0	196	1,401.0
April	24	9,411	56	527.0	255	2,395.3
April	25	6,648	58	385.6	311	2,070.8
April	26	9,214	166	1,529.5	238	2,196.2
April	27	7,926	58	459.7	272	2,156.9
April	28	5,130	122	625.9	278	1,427.1
April	29	9877	64	632.1	268	2,650.1
April	30	6,517	196	1,277.3	302	1,966.0
TOTALS		198,870		14,235.9		73,303.2

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	6,802	56	380.9	325	2,209.8
May	2	6,746	72	485.7	319	2,149.8
May	3	6,395	60	383.7	360	2,300.5
May	4	8,949	66	590.6	252	2,255.7
May	5	10,313	66	680.7	212	2,183.8
May	6	6,753	66	445.7	183	1,236.0
May	7	6,845	90	616.1	327	2,241.4
May	8	5,549	76	421.7	298	1,653.0
May	9	5,716	122	697.4	355	2,028.2
May	10	5,852	74	433.0	325	1,899.6
May	11	6,053	90	544.8	312	1,887.8
May	12	5,615	84	471.7	426	2,390.2
May	13	5,668	72	408.1	448	2,541.6
May	14	6,082	64	389.2	481	2,925.0
May	15	4,811	92	442.6	356	1,711.8
May	16	5261	88	463.0	376	1,975.7
May	17	6,201	62	384.5	456	2,827.7
May	18	5,619	50	281.0	455	2,559.1
May	19	6,000	58	348.0	432	2,591.2
May	20	5,683 *	56	318.2	354	2,011.8
May	21	7,720	62	478.6	296	2,284.6
May	22	9,055	52	470.9	333	3,013.8
May	23	7,091	38	269.5	233	1,652.2
May	24	6,596	86	567.3	311	2,052.2
May	25	5,551	194	1,076.9	312	1,733.5
May	26	4,353	108	470.1	381	1,656.7
May	27	6,274	146	916.0	395	2,475.8
May	28	6,676	62	413.9	364	2,431.6
May	29	4598	90	413.8	440	2,024.9
May	30	5,948	78	463.9	432	2,572.2
May	31	4,676	84	392.8	470	2,198.8
TOTALS		195,451		15,120.2		67,676.0

* BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	6,435		36	231.7	413	2,657.3
June	2	5,541		86	476.5	488	2,702.1
June	3	6,351		48	304.8	356	2,258.5
June	4	4,789		58	277.8	489	2,342.6
June	5	5,067		72	364.8	630	3,190.1
June	6	6,116		40	244.6	420	2,570.4
June	7	5,516		58	319.9	410	2,262.5
June	8	5,561		64	355.9	421	2,342.8
June	9	5,957		136	810.2	510	3,037.6
June	10	7,785		40	311.4	368	2,866.0
June	11	6,882		52	357.9	407	2,804.2
June	12	5,683		70	397.8	472	2,682.4
June	13	5,004		58	290.2	486	2,433.1
June	14	7,684		78	599.4	443	3,406.2
June	15	5,959		58	345.6	431	2,565.8
June	16	7649		56	428.3	384	2,937.8
June	17	5,008		60	300.5	412	2,063.3
June	18	6,103		58	354.0	497	3,034.9
June	19	5,254		56	294.2	531	2,790.1
June	20	7,430		58	430.9	461	3,421.9
June	21	6,074	**	74	449.5	402	2,441.7
June	22	5,822		70	407.5	444	2,583.3
June	23	6,947		68	472.4	411	2,855.3
June	24	7,713		110	848.4	448	3,456.0
June	25	5,740		66	378.8	317	1,817.7
June	26	5,910		56	331.0	417	2,464.0
June	27	6,920		56	387.5	372	2,575.5
June	28	5,268		42	221.3	478	2,518.1
June	29	6729		50	336.5	415	2,789.5
June	30	5,915		42	248.4	507	2,998.5
TOTALS		184,812			11,577.8		80,869.2

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	5,134	92	472.3	518	2,659.3
July	2	4,989	56	279.4	560	2,795.8
July	3	7,560	32	241.9	485	3,664.9
July	4	7,294	44	320.9	410	2,990.2
July	5	6,878	66	453.9	398	2,739.2
July	6	7,614	196	1,492.3	393	2,990.5
July	7	6,217	110	683.9	422	2,624.8
July	8	8,301	58	481.5	524	4,351.6
July	9	6,377	56	357.1	347	2,213.0
July	10	6,699	46	308.2	415	2,782.2
July	11	6,655	52	346.1	497	3,306.2
July	12	6,073	58	352.2	453	2,752.3
July	13	5,775	60	346.5	443	2,557.1
July	14	6,816	114	777.0	445	3,030.6
July	15	7,166	56	401.3	416	2,981.2
July	16	5708	44	251.2	438	2,499.0
July	17	7,871	46	362.1	464	3,653.9
July	18	7,683	76	583.9	298	2,290.6
July	19	1,878	688	1,292.1	150	281.7
July	20	3,066	680	2,084.9	150	459.9
July	21	6,022	92	554.0	150	903.3
July	22	10,507	64	672.4	190	1,991.8
July	23	5,764	82	472.6	368	2,119.9
July	24	5,918	68	402.4	428	2,532.4
July	25	7,516	70	526.1	440	3,310.4
July	26	7,932	54	428.3	446	3,537.1
July	27	8,741	56	489.5	478	4,175.8
July	28	6,362	48	305.4	496	3,156.3
July	29	7587	66	500.7	436	3,304.2
July	30	6,392	80	511.4	477	3,051.8
July	31	6,260	32	200.3	428	2,676.7
TOTALS		204,755		16,951.9		84,383.8

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	7,131	30	213.9	478	3,407.9
August	2	7,056	66	465.7	447	3,157.5
August	3	5,216	62	323.4	494	2,577.2
August	4	5,681	60	340.9	485	2,752.4
August	5	6,841	56	383.1	400	2,738.2
August	6	5,897	78	460.0	406	2,394.3
August	7	4,875	62	302.3	447	2,178.6
August	8	5,462	64	349.6	394	2,151.1
August	9	5,338	64	341.6	442	2,359.1
August	10	4,978	52	258.9	631	3,139.3
August	11	6,015	44	264.7	514	3,089.8
August	12	5,442	54	293.9	465	2,528.7
August	13	4,555	66	300.6	585	2,663.7
August	14	6,292	30	188.8	632	3,974.3
August	15	5,722	44	251.8	575	3,291.1
August	16	7871	86	676.9	425	3,348.9
August	17	5,380	68	365.8	510	2,742.7
August	18	5,267	50	263.4	470	2,473.0
August	19	7,584	56	424.7	430	3,262.0
August	20	6,449	74	477.2	465	3,000.3
August	21	5,550	54	299.7	604	3,353.6
August	22	6,401	40	256.0	396	2,536.6
August	23	6,443	62	399.5	438	2,818.8
August	24	5,596	58	324.6	454	2,541.4
August	25	5,517	62	342.1	433	2,386.7
August	26	6,052	72	435.7	427	2,585.0
August	27	5,962	80	477.0	453	2,701.9
August	28	7,218	34	245.4	446	3,219.9
August	29	6395	98	626.7	477	3,050.5
August	30	8,009	48	384.4	439	3,517.0
August	31	6,479	42	272.1	474	3,070.3
TOTALS		188,674		11,010.2		89,011.8

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	5,422	134	726.5	413	2,241.9
September	2	5,783	60	347.0	466	2,697.6
September	3	7,928	56	444.0	409	3,238.8
September	4	6,057	36	218.1	560	3,394.2
September	5	4,107	24	98.6	392	1,611.0
September	6	6,295	40	251.8	476	2,995.3
September	7	6,765	64	433.0	482	3,258.5
September	8	5,205	54	281.1	524	2,727.0
September	9	6,030	68	410.0	544	3,281.7
September	10	6,160	94	579.0	585	3,603.2
September	11	5,188	68	352.8	546	2,831.9
September	12	5,813	42	244.1	521	3,031.2
September	13	7,444	74	550.9	463	3,447.8
September	14	8,069	54	435.7	343	2,764.0
September	15	6,494	36	233.8	371	2,409.6
September	16	5944	40	237.8	481	2,861.1
September	17	5,593	62	346.8	226	1,263.0
September	18	5,083	46	233.8	756	3,842.7
September	19	5,535	46	254.6	562	3,108.0
September	20	6,610	60	396.6	578	3,822.4
September	21	6,785	56	380.0	448	3,042.7
September	22	4,441	50	222.1	553	2,457.6
September	23	7,495	58	434.7	558	4,184.2
September	24	6,288	52	327.0	563	3,541.0
September	25	7,519	36	270.7	449	3,372.7
September	26	8,699	28	243.6	398	3,459.9
September	27	6,348	56	355.5	301	1,909.6
September	28	8,287	78	646.4	354	2,935.2
September	29	6941	62	430.3	424	2,945.6
September	30	4,666	192	895.9	435	2,028.1
TOTALS		188,994		11,281.9		88,307.5

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	5,805	102	592.1	527	3,061.9
October	2	4,623	56	258.9	484	2,236.2
October	3	3,990	86	343.1	515	2,053.6
October	4	4,517	80	361.4	559	2,525.3
October	5	4,692	76	356.6	509	2,386.3
October	6	5,226	54	282.2	508	2,655.4
October	7	6,503	46	299.1	604	3,926.6
October	8	5,789	56	324.2	829	4,796.2
October	9	6,917	26	179.8	420	2,908.0
October	10	8,722	40	348.9	411	3,581.5
October	11	8,324	96	799.1	439	3,650.1
October	12	6,531	150	979.7	438	2,862.1
October	13	5,293	90	476.4	498	2,636.0
October	14	6,449	58	374.0	426	2,749.6
October	15	6,245	52	324.7	512	3,194.9
October	16	5650	46	259.9	546	3,087.4
October	17	6,563	40	262.5	465	3,050.9
October	18	6,388	50	319.4	419	2,674.6
October	19	6,392	78	498.6	687	4,391.3
October	20	4,190	56	234.6	447	1,874.0
October	21	7,176	52	373.2	368	2,639.9
October	22	7,278	66	480.3	326	2,375.9
October	23	5,307	50	265.4	467	2,479.9
October	24	6,100	58	353.8	470	2,867.1
October	25	6,457	98	632.8	494	3,188.5
October	26	6,047	58	350.7	508	3,069.4
October	27	7,620	68	518.2	596	4,540.0
October	28	6,495	60	389.7	390	2,533.2
October	29	4906	68	333.6	443	2,172.2
October	30	5,254	56	294.2	575	3,023.0
October	31	6,484	52	337.2	528	3,420.4
TOTALS		187,933		12,204.3		92,611.6

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	6,376	66	420.8	501	3,191.6
November	2	6,029	70	422.0	534	3,222.4
November	3	5,681	86	488.6	484	2,751.9
November	4	6,424	82	526.8	537	3,448.3
November	5	4,890	64	313.0	479	2,341.8
November	6	7,204	42	302.6	527	3,794.0
November	7	5,405	32	173.0	639	3,455.7
November	8	5,293	46	243.5	519	2,748.7
November	9	5,889	52	306.2	507	2,986.6
November	10	6,855	68	466.1	513	3,519.3
November	11	5,798	36	208.7	575	3,336.0
November	12	6,755	70	472.9	421	2,846.3
November	13	5,762	46	265.1	394	2,270.3
November	14	6,795	42	285.4	335	2,277.6
November	15	7,411	80	592.9	373	2,767.2
November	16	6494	132	857.2	462	2,998.1
November	17	6,067	62	376.2	514	3,119.5
November	18	5,250	72	378.0	517	2,716.1
November	19	6,630	60	397.8	579	3,836.6
November	20	5,624	52	292.4	539	3,033.2
November	21	5,739	30	172.2	513	2,944.2
November	22	7,142	64	457.1	473	3,379.0
November	23	6,823	64	436.7	504	3,438.8
November	24	3,507	46	161.3	455	1,594.9
November	25	6,294	26	163.6	327	2,057.3
November	26	6,708	54	362.2	432	2,898.9
November	27	5,550	72	399.6	428	2,372.7
November	28	5,000	50	250.0	506	2,530.0
November	29	6,076	58	352.4	570	3,463.3
November	30	6,184	34	206.6	454	2,758.5
TOTALS		181,655		10,750.7		88,098.7

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	7,574		26	196.9	430	3,259.0
December	2	6,496		54	350.8	416	2,704.0
December	3	6,794		80	543.5	527	3,579.7
December	4	6,636		38	252.2	610	4,046.9
December	5	6,085		30	182.6	450	2,737.2
December	6	7,247		34	246.4	488	3,540.1
December	7	8,928		40	357.1	475	4,236.5
December	8	9,674		54	522.4	297	2,877.8
December	9	6,649		44	292.6	291	1,936.2
December	10	6,599		44	290.4	320	2,108.9
December	11	6,397		44	281.5	407	2,605.6
December	12	5,040		34	171.4	516	2,600.1
December	13	6,006		56	336.3	460	2,760.9
December	14	7,144		52	371.5	610	4,359.3
December	15	8,404		52	437.0	589	4,946.3
December	16	8004		66	528.3	305	2,442.2
December	17	7,241		66	477.9	346	2,507.9
December	18	5,557		50	277.9	373	2,071.0
December	19	6,673		266	1,775.0	376	2,506.7
December	20	8,905		70	623.4	356	3,170.7
December	21	7,924		80	633.9	334	2,648.3
December	22	8,224		64	526.3	459	3,772.5
December	23	9,417		52	489.7	378	3,556.4
December	24	3,579	*	62	221.9	438	1,567.6
December	25	3,837	*	50	191.9	458	1,757.3
December	26	4,998	*	79	394.8	449	2,244.1
December	27	7,855		128	1,005.4	329	2,583.0
December	28	8,604		92	791.6	293	2,516.8
December	29	9,205		66	607.5	423	3,892.5
December	30	9,003		48	441.8	495	4,554.7
December	31	7836		50	450.2	399	3,591.3
TOTALS		222,535			14,269.9		93,681.5

* TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	7,574		26	196.9	430	3,259.0
December	2	6,496		54	350.8	416	2,704.0
December	3	6,794		80	543.5	527	3,579.7
December	4	6,636		38	252.2	610	4,046.9
December	5	6,085		30	182.6	450	2,737.2
December	6	7,247		34	246.4	488	3,540.1
December	7	8,928		40	357.1	475	4,236.5
December	8	9,674		54	522.4	297	2,877.8
December	9	6,649		44	292.6	291	1,936.2
December	10	6,599		44	290.4	320	2,108.9
December	11	6,397		44	281.5	407	2,605.6
December	12	5,040		34	171.4	516	2,600.1
December	13	6,006		56	336.3	460	2,760.9
December	14	7,144		52	371.5	610	4,359.3
December	15	8,404		52	437.0	589	4,946.3
December	16	8004		66	528.3	305	2,442.2
December	17	7,241		66	477.9	346	2,507.9
December	18	5,557		50	277.9	373	2,071.0
December	19	6,673		266	1,775.0	376	2,506.7
December	20	8,905		70	623.4	356	3,170.7
December	21	7,924		80	633.9	334	2,648.3
December	22	8,224		64	526.3	459	3,772.5
December	23	9,417		52	489.7	378	3,556.4
December	24	3,579	*	62	221.9	438	1,567.6
December	25	3,837	*	50	191.9	458	1,757.3
December	26	4,998	*	79	394.8	449	2,244.1
December	27	7,855		128	1,005.4	329	2,583.0
December	28	8,604		92	791.6	293	2,516.8
December	29	9,205		66	607.5	423	3,892.5
December	30	9,003		48	441.8	495	4,554.7
December	31	7836		50	450.2	399	3,591.3
TOTALS		222,535			14,269.9		93,681.5

* TSS and BOD data estimated.

1994

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	9,153	40	366.1	394	3,601.9
January	2	8,494	64	543.6	383	3,249.1
January	3	8,594	72	618.8	386	3,318.9
January	4	8,653	52	450.0	505	4,371.5
January	5	7,507	58	435.4	369	2,769.0
January	6	8,355	60	501.3	310	2,587.1
January	7	7,398	84	621.4	337	2,490.1
January	8	7,604	40	304.2	358	2,721.0
January	9	8,244	40	329.8	364	3,001.5
January	10	8,495	52	441.7	354	3,009.3
January	11	7,008	68	476.5	381	2,671.4
January	12	5,450	66	359.7	487	2,651.9
January	13	5,749	42	241.5	488	2,807.6
January	14	5,511	80	440.9	504	2,777.9
January	15	6,458	32	206.7	617	3,984.3
January	16	5537	32	177.2	617	3,414.9
January	17	5,237	66	345.6	538	2,816.0
January	18	6,485	48	311.3	526	3,412.4
January	19	3,926	70	274.8	386	1,515.6
January	20	3,470	76	263.7	563	1,953.8
January	21	5,447	90	490.2	551	3,000.6
January	22	6,602	58	382.9	637	4,205.4
January	23	7,151	46	328.9	580	4,144.7
January	24	5,498	76	417.8	489	2,690.0
January	25	6,514	58	377.8	554	3,609.4
January	26	6,730	62	417.3	562	3,782.8
January	27	6,614	54	357.2	683	4,514.1
January	28	7,047	88	620.1	681	4,799.0
January	29	7,203	34	244.9	624	4,494.7
January	30	7,416	38	273.7	529	3,808.6
January	31	6534	104	771.3	536	3,971.3
TOTALS		210,084		12,392.3		102,145.8

** TSS and BOD data estimated.

~~1993~~ 1994

JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
February	1	7,300	98	715.4	645	4,708.5
February	2	6,811	80	544.9	557	3,790.3
February	3	9,469	68	643.9	581	5,496.8
February	4	4,689	64	300.1	614	2,876.7
February	5	9,243	56	517.6	509	4,703.6
February	6	6,304	38	239.6	524	3,302.5
February	7	4,290	92	394.7	530	2,271.6
February	8	7,664	82	628.4	597	4,575.4
February	9	9,132	50	456.6	525	4,790.9
February	10	5,110	44	224.8	407	2,079.2
February	11	4,390	110	482.9	345	1,514.6
February	12	5,984	42	251.3	347	2,077.9
February	13	6,983	62	432.9	385	2,686.7
February	14	5,814	80	465.1	487	2,832.2
February	15	7,440	46	342.2	541	4,023.2
February	16	7674	70	537.2	561	4,305.1
February	17	6,452	44	283.9	608	3,919.6
February	18	6,818	92	627.3	596	4,060.1
February	19	9,334	40	373.4	542	5,054.4
February	20	7,314	34	248.7	549	4,018.2
February	21	8,367	1,680	14,056.6	521	4,355.0
February	22	9,204	372	3,423.9	507	4,669.9
February	23	7,929	46	364.7	475	3,767.3
February	24	8,836	34	300.4	469	4,141.9
February	25	7,331	44	322.6	409	2,999.3
February	26	7,960	50	398.0	436	3,468.6
February	27	10,676	44	469.7	440	4,700.1
February	28	6,407	48	307.5	440	2,820.7
TOTALS		204,925		28,354.3		104,010.2

** TSS and BOD data estimated.

1993 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	7,101	62	440.3	500	3,549.6
March	2	9,236	38	351.0	498	4,599.5
March	3	8,204	46	377.4	530	4,350.2
March	4	6,410	68	435.9	464	2,975.8
March	5	11,992	32	383.7	466	5,585.3
March	6	9,184	42	385.7	423	3,881.4
March	7	6,965	48	334.3	408	2,839.1
March	8	8,262	40	330.5	462	3,814.0
March	9	9,089	48	436.3	490	4,451.3
March	10	7,967	44	350.5	379	3,017.5
March	11	8,236	50	411.8	531	4,370.3
March	12	10,680	36	384.5	425	4,533.7
March	13	9,789	50	489.5	449	4,397.7
March	14	8,102	62	502.3	501	4,059.1
March	15	8,431	50	421.6	450	3,794.0
March	16	7660	48	367.7	404	3,096.6
March	17	7,094	72	510.8	458	3,245.5
March	18	8,120	74	600.9	420	3,410.4
March	19	11,824	34	402.0	411	4,859.7
March	20	10,634	36	382.8	375	3,987.8
March	21	8,402	44	369.7	375	3,153.9
March	22	8,799	46	404.8	404	3,553.7
March	23	10,585	54	571.6	445	4,707.7
March	24	10,525	38	400.0	392	4,124.5
March	25	10,017	52	520.9	482	4,830.7
March	26	9,779	24	234.7	391	3,824.9
March	27	7,636	32	244.4	477	3,645.3
March	28	6,596	42	277.0	507	3,344.2
March	29	7,181	28	201.1	467	3,349.9
March	30	10,359	46	476.5	378	3,919.6
March	31	9184	46	422.5	365	3,354.5
TOTALS		274,043		12,422.4		120,627.4

** TSS and BOD data estimated.

~~1993~~ 1994

JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	9,217		28	258.1	327	3,017.5
April	2	11,368		32	363.8	308	3,495.7
April	3	8,624		50	431.2	334	2,878.3
April	4	7,159	*	49	350.8	446	3,192.9
April	5	8,537		36	307.3	533	4,552.4
April	6	9,701		32	310.4	363	3,517.9
April	7	8,877		48	426.1	253	2,247.0
April	8	9,340		76	709.8	276	2,581.4
April	9	12,369		28	346.3	272	3,358.2
April	10	9,826		28	275.1	183	1,798.2
April	11	7,191		44	316.4	264	1,901.2
April	12	9,194		64	588.4	321	2,951.3
April	13	8,779		48	421.4	292	2,561.3
April	14	6,628		38	251.9	299	1,978.5
April	15	9,522		52	495.1	279	2,656.6
April	16	10873		190	2,065.9	271	2,943.9
April	17	7,626		34	259.3	336	2,562.3
April	18	5,125		42	215.3	366	1,875.8
April	19	7,775		60	466.5	285	2,218.8
April	20	7,967		90	717.0	216	1,720.9
April	21	6,867		96	659.2	493	3,386.3
April	22	9,087		52	472.5	495	4,498.1
April	23	8,818		28	246.9	306	2,701.7
April	24	9,519		48	456.9	403	3,837.4
April	25	6,146		76	467.1	269	1,652.5
April	26	7,201		52	374.5	462	3,326.9
April	27	7,147	*	53	378.8	350	2,501.5
April	28	9,764	*	56	546.8	377	3,681.0
April	29	8399		68	571.1	366	3,074.0
April	30	10,696		40	427.8	328	3,509.7
TOTALS		259,342			14,177.8		86,178.8

* TSS and BOD are averages – no data available

1994 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	8,067	*	38	306.5	351	2,831.5
May	2	5,934	*	50	296.7	371	2,201.5
May	3	8,162		57	465.2	514	4,193.2
May	4	11,523		40	460.9	392	4,511.3
May	5	10,803		36	387.9	306	3,309.8
May	6	9,821		56	550.0	250	2,456.5
May	7	9,888		86	850.4	282	2,784.8
May	8	12,978		46	597.0	323	4,190.3
May	9	8,387		100	838.7	351	2,943.8
May	10	7,995		61	489.1	420	3,357.9
May	11	7,380		40	295.2	444	3,274.0
May	12	7,539		86	648.4	501	3,777.0
May	13	7,184		54	387.9	348	2,497.4
May	14	9,224		56	516.5	375	3,455.6
May	15	7,108		31	217.4	400	2,841.4
May	16	5209		74	385.5	540	2,810.9
May	17	7,054		50	352.7	540	3,806.6
May	18	7,259		66	479.1	552	4,009.7
May	19	7,877		68	535.6	485	3,819.4
May	20	8,124		76	617.4	374	3,040.4
May	21	10,452		36	376.3	353	3,692.2
May	22	7,848		34	266.8	441	3,458.0
May	23	7,206		68	490.0	426	3,072.5
May	24	9,684		47	455.1	378	3,664.2
May	25	7,656		40	306.2	420	3,215.5
May	26	11,561	*	63	728.3	410	4,740.0
May	27	8,886		47	417.6	271	2,405.9
May	28	12,603		60	756.2	285	3,591.9
May	29	7040		38	267.5	67	469.4
May	30	8,382		44	368.8	337	2,825.8
May	31	6,632		52	344.9	681	4,516.4
TOTALS		265,466			14,456.1		101,764.8

* BOD and TSS data estimated.

1994 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	8,067	*	38	306.5	351	2,831.5
May	2	5,934	*	50	296.7	371	2,201.5
May	3	8,162		57	465.2	514	4,193.2
May	4	11,523		40	460.9	392	4,511.3
May	5	10,803		36	387.9	306	3,309.8
May	6	9,821		56	550.0	250	2,456.5
May	7	9,888		86	850.4	282	2,784.8
May	8	12,978		46	597.0	323	4,190.3
May	9	8,387		100	838.7	351	2,943.8
May	10	7,995		61	489.1	420	3,357.9
May	11	7,380		40	295.2	444	3,274.0
May	12	7,539		86	648.4	501	3,777.0
May	13	7,184		54	387.9	348	2,497.4
May	14	9,224		56	516.5	375	3,455.6
May	15	7,108		31	217.4	400	2,841.4
May	16	5209		74	385.5	540	2,810.9
May	17	7,054		50	352.7	540	3,806.6
May	18	7,259		66	479.1	552	4,009.7
May	19	7,877		68	535.6	485	3,819.4
May	20	8,124		76	617.4	374	3,040.4
May	21	10,452		36	376.3	353	3,692.2
May	22	7,848		34	266.8	441	3,458.0
May	23	7,206		68	490.0	426	3,072.5
May	24	9,684		47	455.1	378	3,664.2
May	25	7,656		40	306.2	420	3,215.5
May	26	11,561	*	63	728.3	410	4,740.0
May	27	8,886		47	417.6	271	2,405.9
May	28	12,603		60	756.2	285	3,591.9
May	29	7040		38	267.5	67	469.4
May	30	8,382		44	368.8	337	2,825.8
May	31	6,632		52	344.9	681	4,516.4
TOTALS		265,466			14,456.1		101,764.8

* BOD and TSS data estimated.

1994 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	7,125	56	399.0	431	3,067.3
June	2	9,724	45	439.7	150	1,458.6
June	3	12,997	65	847.0	267	3,470.2
June	4	12,519	24	300.5	221	2,769.8
June	5	7,829	24	187.9	328	2,566.0
June	6	6,626	51	334.9	376	2,489.7
June	7	8,163	52	424.5	318	2,598.9
June	8	9,796	52	509.4	331	3,243.7
June	9	11,499	52	597.9	236	2,708.0
June	10	8,316	52	432.4	205	1,702.7
June	11	10,230	33	337.6	303	3,103.6
June	12	8,535	34	290.2	336	2,871.0
June	13	6,160	57	352.3	150	924.0
June	14	10,758	36	389.2	308	3,312.2
June	15	11,319	59	667.8	298	3,374.5
June	16	9810	39	382.6	232	2,273.5
June	17	9,441	37	348.9	208	1,961.4
June	18	13,875	21	291.4	220	3,049.0
June	19	9,895	41	405.7	215	2,122.5
June	20	7,910	50	395.5	275	2,177.2
June	21	7,893	42	331.5	316	2,495.2
June	22	9,524	45	430.7	308	2,928.6
June	23	10,030	78	782.3	326	3,264.8
June	24	9,919	36	357.1	293	2,908.7
June	25	9,221	20	185.3	377	3,471.7
June	26	7,775	16	124.4	411	3,198.5
June	27	5,934	45	267.0	488	2,892.8
June	28	9,864	35	345.2	441	4,353.8
June	29	10170	31	311.1	339	3,451.5
June	30	10,604	40	424.2	317	3,356.2
TOTALS		283,461		11,893.3		83,565.7

* BOD and TSS data estimated.

1994 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
August	1	6,816	76	518.0	282	1,924.7
August	2	7,802	39	301.2	318	2,481.0
August	3	7,427	46	341.6	302	2,244.8
August	4	8,111	56	454.2	365	2,959.5
August	5	8,052	56	450.9	224	1,805.7
August	6	9,205	38	345.2	262	2,412.9
August	7	7,554	32	241.1	274	2,070.8
August	8	6,090	40	243.0	339	2,062.3
August	9	8,224	40	328.1	355	2,917.5
August	10	9,774	35	338.0	289	2,826.0
August	11	7,419	40	297.1	271	2,011.5
August	12	8,000	37	297.9	350	2,802.0
August	13	8,809	26	232.6	324	2,857.5
August	14	8,434	28	235.6	348	2,931.9
August	15	5,968	53	316.3	368	2,197.7
August	16	7569	49	372.5	441	3,340.8
August	17	8,200	48	392.6	390	3,201.1
August	18	7,335	59	429.2	302	2,211.5
August	19	9,153	56	512.6	257	2,351.2
August	20	15,674	23	360.5	254	3,985.1
August	21	12,065	54	651.5	230	2,778.0
August	22	10,483	53	555.6	213	2,232.9
August	23	12,944	61	795.9	262	3,388.1
August	24	8,401	52	434.9	224	1,877.6
August	25	9,303	64	593.9	363	3,373.5
August	26	10,008	49	490.4	306	3,066.3
August	27	11,388	23	261.9	347	3,945.9
August	28	9,860	40	393.4	313	3,083.7
August	29	8586	45	386.4	424	3,641.6
August	30	10,562	86	908.3	252	2,661.6
August	31	10,210	42	428.8	370	3,775.1
TOTALS		279,426		12,909.4		85,419.8

* BOD and TSS data estimated.

1994 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
September	1	9,704		170	1,649.7	342	3,322.5
September	2	10,793		50	539.7	271	2,922.2
September	3	11,316		39	441.3	289	3,271.8
September	4	8,380		30	251.4	266	2,231.2
September	5	8,903		44	391.7	288	2,564.1
September	6	7,966		56	446.1	309	2,461.5
September	7	8,841		54	477.4	323	2,857.9
September	8	9,460		70	662.2	482	4,558.6
September	9	8,347		50	417.4	411	3,433.8
September	10	8,477		48	406.9	387	3,277.5
September	11	8,266		44	363.7	482	3,980.1
September	12	5,982		114	681.9	641	3,831.5
September	13	10,271		72	739.5	420	4,310.0
September	14	6,242		74	461.9	486	3,033.6
September	15	7,187		60	431.2	498	3,581.9
September	16	9627		72	693.1	384	3,696.8
September	17	11,047		32	353.5	417	4,610.8
September	18	10,361		30	310.8	414	4,293.3
September	19	6,960		48	334.1	473	3,291.2
September	20	13,300		162	2,154.6	428	5,695.7
September	21	10,256		28	287.2	450	4,615.2
September	22	8,274		52	430.2	606	5,014.0
September	23	7,953		102	811.2	506	4,026.2
September	24	10,000		34	340.0	438	4,383.8
September	25	11,067		54	597.6	407	4,498.7
September	26	8,827		48	423.7	473	4,174.1
September	27	9,327		66	615.6	441	4,116.8
September	28	11,671		98	1,143.8	426	4,971.8
September	29	9580		76	728.1	336	3,222.5
September	30	8,061	**	63	507.8	356	2,869.7
TOTALS		276,446			18,093.4		113,118.7

** TSS and BOD data estimated.

1994 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
October	1	18,063		32	578.0	391	7,058.1
October	2	6,787		58	393.6	513	3,481.7
October	3	6,097		72	439.0	478	2,912.8
October	4	10,368		60	622.1	499	5,171.0
October	5	11,921		62	739.1	396	4,725.2
October	6	11,443		158	1,808.0	333	3,814.9
October	7	9,373		68	637.4	305	2,854.1
October	8	10,261		36	369.4	271	2,778.2
October	9	8,043		22	176.9	334	2,687.4
October	10	7,235		62	448.6	456	3,301.9
October	11	7,722		82	633.2	530	4,088.8
October	12	7,971	*	85	677.5	385	3,068.8
October	13	7,964		92	732.7	533	4,240.8
October	14	8,883		74	657.3	411	3,647.6
October	15	12,867		24	308.8	323	4,154.5
October	16	8686		30	260.6	332	2,882.7
October	17	8,543		90	768.9	381	3,258.1
October	18	10,608		64	678.9	333	3,532.5
October	19	7,369		80	589.5	452	3,327.1
October	20	8,659		60	519.5	455	3,942.0
October	21	10,017		68	681.2	375	3,756.4
October	22	10,491		96	1,007.1	378	3,969.6
October	23	9,297		32	297.5	368	3,416.6
October	24	8,229		58	477.3	371	3,052.0
October	25	11,255		46	517.7	313	3,520.0
October	26	8,524		98	835.4	346	2,950.4
October	27	6,968		56	390.2	353	2,461.4
October	28	10,533		336	3,539.1	321	3,381.1
October	29	13921		168	2,338.7	252	3,508.1
October	30	11,980		210	2,515.8	356	4,258.9
October	31	7,055		162	1,142.9	407	2,873.1
TOTALS		297,133			25,782.0		112,076.1

* BOD and TSS data estimated. 85.1935 385.449355

1994 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
November	1	10742	128	1,375	389	4,173
November	2	9698	52	504	416	4,037
November	3	9529	120	1,143	470	4,481
November	4	9600	94	902	431	4,140
November	5	11738	44	516	399	4,688
November	6	11166	10	112	386	4,309
November	7	10360	68	704	381	3,943
November	8	11090	52	577	325	3,606
November	9	11782	52	613	500	5,894
November	10	10718	80	857	371	3,975
November	11	16261	52	846	405	6,592
November	12	8211	32	263	384	3,150
November	13	9000	44	396	509	4,583
November	14	6628 *	57	378	367.0	2,432
November	15	8915	34	303	311	2,771
November	16	8864	54	479	326	2,885
November	17	9590	42	403	396	3,801
November	18	9084	94	854	352	3,199
November	19	9147	28	256	352	3,217
November	20	8028	30	241	401	3,215
November	21	8044	76	611	374	3,007
November	22	9080	116	1,053	355	3,225
November	23	8441	58	490	288	2,428
November	24	9750	34	332	277	2,698
November	25	10171	24	244	281	2,853
November	26	9879	36	356	300	2,964
November	27	9140	38	347	287	2,619
November	28	6869	70	481	387	2,656
November	29	9731	42	409	308	2,992
November	30	10146	46	467	288	2,922
November	31			0		0
TOTALS		**291402**		**16511.084**		**107,456.4**

* BOD and TSS data estimated. 56.9 367.1

1994 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
December	1	9093	36	327	231	2,104
December	2	9401	52	489	421	3,959
December	3	11424	38	434	339	3,873
December	4	8633	60	518	260	2,247
December	5	8020	44	353	421	3,377
December	6	7956	42	334	381	3,034
December	7	7471	34	254	420	3,141
December	8	9532	66	629	200	1,902
December	9	9463	38	360	352	3,329
December	10	10693	28	299	378	4,046
December	11	8955	32	287	443	3,963
December	12	6374	56	357	461	2,938
December	13	8327	46	383	468	3,900
December	14	9038	58	524	530	4,789
December	15	8535	68	580	414	3,533
December	16	8478	126	1,068	473	4,009
December	17	9454	44	416	521	4,924
December	18	7992	136	1,087	425	3,396
December	19	8451	52	439	522	4,411
December	20	10668	66	704	408	4,353
December	21	12788	58	742	483	6,181
December	22	9503	74	703	423	4,020
December	23	8317	84	699	489	4,064
December	24	11537	50	577	429	4,954
December	25	3547	48	170	167	591
December	26	7452	58	432	150	1,118
December	27	8064	62	500	180	1,452
December	28	9373	58	544	270	2,527
December	29	11785	100	1,179	310	3,650
December	30	9890	126	1,246	240	2,374
December	31	10145	44	446	269	2,732
TOTALS		280359		17080.732		104,888.8

* BOD and TSS data estimated. 61.333333333 370.3

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1995 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	9,044		56	506.5	262	2,367.3
January	2	7,532		54	406.7	218	1,638.2
January	3	8,205		110	902.6	253	2,073.8
January	4	9,483		154	1,460.4	372	3,531.3
January	5	8,421		84	707.4	357	3,009.5
January	6	6,610		58	383.4	292	1,928.5
January	7	12,400		12	148.8	290	3,589.8
January	8	9,522		22	209.5	474	4,513.4
January	9	6,860	*	62	425.3	372	2,551.9
January	10	8,731		56	488.9	523	4,567.4
January	11	11,146	*	62	691.1	372	4,146.3
January	12	11,640		62	721.7	347	4,042.0
January	13	9,486		46	436.4	359	3,407.8
January	14	11,661		46	536.4	429	5,007.0
January	15	9,504		166	1,577.7	420	3,988.2
January	16	7440		58	431.5	437	3,247.6
January	17	10,050		92	924.6	372	3,734.9
January	18	9,273		44	408.0	329	3,053.1
January	19	10,717		42	450.1	410	4,388.6
January	20	11,200		50	560.0	325	3,641.5
January	21	16,001		20	320.0	291	4,662.4
January	22	11,553		20	231.1	293	3,387.9
January	23	10,508		48	504.4	304	3,191.8
January	24	9,162		26	238.2	336	3,078.4
January	25	8,325		56	466.2	452	3,761.9
January	26	8,111		44	356.9	444	3,604.4
January	27	8,436		62	523.0	414	3,495.7
January	28	11,037	**	62	684.3	496	5,475.8
January	29	9062		42	380.6	388	3,517.2
January	30	4,856		132	641.0	452	2,192.5
January	31	8,214		86	706.4	459	3,773.3
				62.3871		372.3168	
TOTALS		294,190			17,428.9		108,569.4

** TSS data estimated.

* BOD and TSS data estimated.

1995

JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
January	1	9,044	56	506.5	262	2,367.3
January	2	7,532	54	406.7	218	1,638.2
January	3	8,205	110	902.6	253	2,073.8
January	4	9,483	154	1,460.4	372	3,531.3
January	5	8,421	84	707.4	357	3,009.5
January	6	6,610	58	383.4	292	1,928.5
January	7	12,400	12	148.8	290	3,589.8
January	8	9,522	22	209.5	474	4,513.4
January	9	6,860 *		0.0		0.0
January	10	8,731	56	488.9	523	4,567.4
January	11	11,146 *		0.0		0.0
January	12	11,640	62	721.7	347	4,042.0
January	13	9,486	46	436.4	359	3,407.8
January	14	11,661	46	536.4	429	5,007.0
January	15	9,504	166	1,577.7	420	3,988.2
January	16	7440	58	431.5	437	3,247.6
January	17	10,050	92	924.6	372	3,734.9
January	18	9,273	44	408.0	329	3,053.1
January	19	10,717	42	450.1	410	4,388.6
January	20	11,200	50	560.0	325	3,641.5
January	21	16,001	20	320.0	291	4,662.4
January	22	11,553	20	231.1	293	3,387.9
January	23	10,508	48	504.4	304	3,191.8
January	24	9,162	26	238.2	336	3,078.4
January	25	8,325	56	466.2	452	3,761.9
January	26	8,111	44	356.9	444	3,604.4
January	27	8,436	~~62~~	523.0	414	3,495.7
January	28	11,037	2,860	31,565.8	496	5,475.8
January	29	9062	~~42~~	380.6	388	3,517.2
January	30	4,856	132	641.0	452	2,192.5
January	31	8,214	86	706.4	459	3,773.3
TOTALS		294,190	158.8966	47,194.1	372.3386	101,871.2

* BOD and TSS data estimated.

Becky:
please use an average w/o 1/28 results
Thanks

1995 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
February	1	11,131	184	2,048.1	603	6,712.0
February	2	9,891	142	1,404.5	400	3,953.9
February	3	7,711	156	1,202.9	335	2,582.3
February	4	11,437	34	388.9	350	4,001.6
February	5	20,337	38	772.8	459	9,342.4
February	6	17,658	96	1,695.2	564	9,959.1
February	7	7,896	118	931.7	645	5,092.9
February	8	8,111	100	811.1	599	4,854.4
February	9	7,734	112	866.2	552	4,269.2
February	10	9,312	156	1,452.7	578	5,377.7
February	11	8,229	100	822.9	617	5,073.2
February	12	10,383	36	373.8	499	5,182.5
February	13	7,311	142	1,038.2	558	4,079.5
February	14	9,735	98	954.0	216	2,106.5
February	15	8,393	102	856.1	458	3,843.0
February	16	8746	462	4,040.7	450	3,935.7
February	17	8,045	96	772.3	387	3,113.4
February	18	12,159	32	389.1	245	2,982.0
February	19	8,790	18	158.2	399	3,504.0
February	20	5,809	34	197.5	518	3,008.4
February	21	8,294	36	298.6	594	4,926.6
February	22	7,971	50	398.6	563	4,483.7
February	23	9,658	62	598.8	548	5,287.8
February	24	12,414	70	869.0	488	6,056.5
February	25	13,113	78	1,022.8	371	4,863.3
February	26	12,924	68	878.8	363	4,686.6
February	27	9,357	46	430.4	431	4,035.2
February	28	11,940	32	382.1	377	4,499.9
				0.0		0.0
				0.0		0.0
TOTALS		284,489		26,055.9		131,813.3

d TSS data estimated.

1995 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
March	1	11,364		50	568.2	330	3,750.1
March	2	8,581		68	583.5	375	3,217.9
March	3	8,063		74	596.7	428	3,446.9
March	4	9,811	*	66	647.5	314	3,080.7
March	5	7,924	*	66	523.0	314	2,488.1
March	6	6,720	*	66	443.5	314	2,110.1
March	7	11,367		132	1,500.4	230	2,608.7
March	8	12,792		46	588.4	203	2,590.4
March	9	7,908		42	332.1	150	1,186.2
March	10	10,435		50	521.8	150	1,565.3
March	11	12,204		190	2,318.8	218	2,663.5
March	12	12,921		20	258.4	150	1,938.2
March	13	9,886		44	435.0	197	1,942.6
March	14	12,513		66	825.9	269	3,359.7
March	15	9,258		40	370.3	150	1,388.7
March	16	8487		52	441.3	279	2,364.7
March	17	7,917		40	316.7	364	2,879.8
March	18	7,647		70	535.3	356	2,718.5
March	19	8,404		102	857.2	470	3,952.0
March	20	8,309		60	498.5	556	4,617.7
March	21	11,545		60	692.7	233	2,684.2
March	22	8,175		58	474.2	308	2,513.8
March	23	11,060		14	154.8	288	3,181.2
March	24	10,230		62	634.3	248	2,539.6
March	25	8,355		74	618.3	313	2,613.0
March	26	8,060		78	628.7	391	3,152.5
March	27	8,410		56	471.0	513	4,314.3
March	28	8,932		104	928.9	526	4,699.4
March	29	8989		60	539.3	317	2,851.8
March	30	7,534		78	587.7	442	3,328.1
March	31	8,639		62	535.6	341	2,944.9
TOTALS		292,440			19,427.9		88,692.7

* BOD and TSS data estimated. 66 314

1995 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
April	1	6623	82	543.1	480	3,179.0
April	2	7373	68	501.4	623	4,589.7
April	3	7311	52	380.2	602	4,397.6
April	4	8864	54	478.7	462	4,095.2
April	5	9213	38	350.1	381	3,506.7
April	6	8390	66	553.7	321	2,693.2
April	7	8640	82	708.5	332	2,864.2
April	8	10450	68	710.6	311	3,244.7
April	9	12548	64	803.1	194	2,437.4
April	10	11150	60	669.0	210	2,341.5
April	11	9035	58	524.0	350	3,161.2
April	12	7963	24	191.1	362	2,878.6
April	13	8536	60	512.2	354	3,018.6
April	14	12110	80	968.8	328	3,973.7
April	15	11103	36	399.7	401	4,446.8
April	16	10800	22	237.6	301	3,248.1
April	17	10594	24	254.3	357	3,786.1
April	18	5931	36	213.5	413	2,446.5
April	19	10815	48	519.1	495	5,357.5
April	20	7990	84	671.2	469	3,748.3
April	21	8059	84	677.0	492	3,965.0
April	22	9309	66	614.4	455	4,237.9
April	23	8846	46	406.9	473	4,186.4
April	24	7315	46	336.5	632	4,619.4
April	25	8333	68	566.6	588	4,899.8
April	26	8593	68	584.3	482	4,144.0
April	27	9517	56	533.0	527	5,017.8
April	28	7792	64	498.7	614	4,780.4
April	29	7540	64	482.6	659	4,965.1
April	30	8004	58	464.2	675	5,402.7
April	31			0.0		0.0
TOTALS		268,747		15,353.9		115,633.2

* BOD and TSS data estimated. 58 445

1995 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
May	1	8961	64.00	573.5	553.50	4,959.9
May	2	8654	70.00	605.8	583.50	5,049.6
May	3	10511	66.00	693.7	559.50	5,880.9
May	4	9044	88.00	795.9	492.75	4,456.4
May	5	9958	62.00	617.4	385.50	3,838.8
May	6	10290	52.00	535.1	456.00	4,692.2
May	7	13608	64.00	870.9	399.75	5,439.8
May	8	14990	68.00	1,019.3	394.88	5,919.3
May	9	9466	84.00	795.1	489.75	4,636.0
May	10	8353	62.00	517.9	567.00	4,736.2
May	11	8201	70.00	574.1	657.00	5,388.1
May	12	8514	72.00	613.0	618.00	5,261.7
May	13	7679	38.00	291.8	612.00	4,699.5
May	14	9220	72.00	663.8	679.50	6,265.0
May	15	9068	156.00	1,414.6	669.00	6,066.5
May	16	9100	112.00	1,019.2	592.50	5,391.8
May	17	10002	70.00	700.1	636.00	6,361.3
May	18	9314	114.00	1,061.8	507.75	4,729.2
May	19	8167	72.00	588.0	551.63	4,505.2
May	20	7498	44.00	329.9	573.00	4,296.4
May	21	8721	82.00	715.1	573.00	4,997.1
May	22	8038	104.00	836.0	612.00	4,919.3
May	23	8449	112.00	946.3	637.50	5,386.2
May	24	8320	90.00	748.8	691.50	5,753.3
May	25	8378	86.00	720.5	636.00	5,328.4
May	26	7513	96.00	721.2	618.00	4,643.0
May	27	8941	104.00	929.9	538.50	4,814.7
May	28	8500	88.00	748.0	538.50	4,577.3
May	29	11070	216.00	2,391.1	598.50	6,625.4
May	30	9074	298.00	2,704.1	555.00	5,036.1
May	31	8410	100.00	841.0	501.00	4,213.4
TOTALS		286,012		26,583.0		158,867.7

* BOD and TSS data estimated.

1995 JAMES RIVER CORPORATION

		Flow (M3)		TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
June	1	6552		148.00	969.7	242.25	1,587.2
June	2	9673		90.00	870.6	223.50	2,161.9
June	3	9950		64.00	636.8	331.50	3,298.4
June	4	10050		80.00	804.0	401.25	4,032.6
June	5	9941		50.00	497.1	468.00	4,652.4
June	6	8857		70.00	620.0	475.88	4,214.9
June	7	12250		60.00	735.0	475.88	5,829.5
June	8	9281		62.00	575.4	468.75	4,350.5
June	9	9275		34.00	315.4	419.25	3,888.5
June	10	10181		74.00	753.4	352.88	3,592.7
June	11	9724		66.00	641.8	380.63	3,701.2
June	12	9226		224.00	2,066.6	518.63	4,784.9
June	13	8587		62.00	532.4	545.63	4,685.3
June	14	8873		48.00	425.9	545.63	4,841.4
June	15	9559		58.00	554.4	485.63	4,642.1
June	16	9953		36.00	358.3	502.13	4,997.7
June	17	11558		260.00	3,005.1	487.88	5,638.9
June	18	9711		92.00	893.4	450.00	4,370.0
June	19	8075		54.00	436.1	460.13	3,715.5
June	20	8244		66.00	544.1	481.50	3,969.5
June	21	8492		52.00	441.6	503.25	4,273.6
June	22	9156		66.00	604.3	457.13	4,185.5
June	23	8390		48.00	402.7	537.75	4,511.7
June	24	7770		64.00	497.3	555.00	4,312.4
June	25	8217		80.00	657.4	556.50	4,572.8
June	26	9775		126.00	1,231.7	651.00	6,363.5
June	27	8508		118.00	1,003.9	413.25	3,515.9
June	28	4179		200.00	835.8	195.75	818.0
June	29	1145	*	86.00	98.5	439.00	502.7
June	30	3514		56.00	196.8	150.00	527.1
					0.0		0.0
TOTALS		258,666			22,205.2		116,538.3

* BOD and TSS data estimated. 86 439

1995 JAMES RIVER CORPORATION

		Flow (M3)	TSS (mg/L)	kilograms TSS	BOD (mg/L)	kilograms BOD
July	1	5564	50.00	278.2	150.00	834.6
July	2	3892	56.00	218.0	150.00	583.8
July	3	3424	26.00	89.0	150.00	513.6
July	4	3137	40.00	125.5	150.00	470.6
July	5	4874	90.00	438.7	150.00	731.1
July	6	11024	82.00	904.0	228.75	2,521.7
July	7	9372	60.00	562.3	321.38	3,012.0
July	8	7054	192.00	1,354.4	360.38	2,542.1
July	9	9820	44.00	432.1	384.00	3,770.9
July	10	8732	54.00	471.5	450.38	3,932.7
July	11	9263	52.00	481.7	473.25	4,383.7
July	12	11624	66.00	767.2	382.13	4,441.9
July	13	10463	76.00	795.2	396.75	4,151.2
July	14	11006	60.00	660.4	435.00	4,787.6
July	15	10933	60.00	656.0	373.50	4,083.5
July	16	12245	54.00	661.2	448.13	5,487.4
July	17	9399	70.00	657.9	447.75	4,208.4
July	18	11681	68.00	794.3	381.75	4,459.2
July	19	13324	68.00	906.0	394.50	5,256.3
July	20	12362	72.00	890.1	342.75	4,237.1
July	21	10872	66.00	717.6	405.38	4,407.3
July	22	9923	70.00	694.6	446.25	4,428.1
July	23	11856	74.00	877.3	373.50	4,428.2
July	24	10400	84.00	873.6	443.25	4,609.8
July	25	11824	76.00	898.6	429.75	5,081.4
July	26	12390	92.00	1,139.9	361.13	4,474.4
July	27	11210	68.00	762.3	363.00	4,069.2
July	28	9839	50.00	492.0	376.13	3,700.7
July	29	8660	56.00	485.0	321.75	2,786.4
July	30	8970	62.00	556.1	366.38	3,286.4
July	31	8993	60.00	539.6	474.38	4,266.1
TOTALS		294,130		20,180.1		109,947.4

* BOD and TSS data estimated.

Industry Location: JRC

August 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
08/01/95	9,404.00	4,108.42	436.88	639.47	68.00
08/02/95	9,654.00	3,714.38	384.75	308.93	32.00
08/03/95	10,377.00	4,708.56	453.75	767.90	74.00
08/04/95	9,319.00	3,043.86	326.63	540.50	58.00
08/05/95	9,537.00	2,964.86	310.88	667.59	70.00
08/06/95	9,864.00	3,491.86	354.00	512.93	52.00
08/07/95	8,672.00	3,505.66	404.25	450.94	52.00
08/08/95	10,616.00	4,307.44	405.75	764.35	72.00
08/09/95	13,094.00	4,846.48	370.13	864.20	66.00
08/10/95	8,423.00	2,940.72	349.13	808.61	96.00
08/11/95	8,635.00	3,678.51	426.00	656.26	76.00
08/12/95	8,881.00	4,376.11	492.75	799.29	90.00
08/13/95	8,523.00	4,059.08	476.25	767.07	90.00
08/14/95	8,537.00	4,136.18	484.50	580.52	68.00
08/15/95	9,610.00	4,558.79	474.38	557.38	58.00
08/16/95	10,276.00	3,907.45	380.25	2,630.66	256.00
08/17/95	9,689.00	4,094.86	422.63	600.72	62.00
08/18/95	9,973.00	3,571.63	358.13	718.06	72.00
08/19/95	9,618.00	3,552.70	369.38	884.86	92.00
08/20/95	12,148.00	2,213.97	182.25	1,311.98	108.00
08/21/95	9,839.00	4,080.73	414.75	610.02	62.00
08/22/95	8,495.00	3,739.92	440.25	492.71	58.00
08/23/95	9,151.00	4,872.91	532.50	512.46	56.00
08/24/95	10,220.00	6,361.95	622.50	531.44	52.00
08/25/95	9,356.00	4,701.39	502.50	860.75	92.00
08/26/95	9,270.00	4,324.46	466.50	760.14	82.00
08/27/95	10,530.00	5,058.40	480.38	842.40	80.00
08/28/95	12,219.00	5,333.59	436.50	977.52	80.00
08/29/95	12,602.00	4,494.25	356.63	730.92	58.00
08/31/95	13,010.00	4,571.45	351.38	702.54	54.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	299,542.00	123,320.58	12,466.56	22,853.10	2,286.00

Industry Location: JRC

September 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
09/01/95	10,520.00	2,662.93	253.13	694.32	66.00
09/02/95	12,890.00	4,094.25	317.63	721.84	56.00
09/03/95	10,410.00	3,052.73	293.25	603.78	58.00
09/04/95	11,160.00	3,578.23	320.63	602.64	54.00
09/05/95	9,871.00	3,605.38	365.25	513.29	52.00
09/06/95	10,739.00	3,926.50	365.63	987.99	92.00
09/07/95	10,739.00	3,966.77	369.38	536.95	50.00
09/08/95	7,892.00	3,515.89	445.50	299.90	38.00
09/09/95	8,947.00	4,116.78	460.13	339.99	38.00
09/10/95	9,964.00	4,480.11	449.63	458.34	46.00
09/11/95	8,242.00	4,036.52	489.75	428.58	52.00
09/12/95	9,563.00	4,002.12	418.50	573.78	60.00
09/13/95	8,977.00	3,238.45	360.75	412.94	46.00
09/14/95	9,082.00	4,335.57	477.38	781.05	86.00
09/15/95	11,410.00	5,057.48	443.25	730.24	64.00
09/16/95	10,480.00	3,898.56	372.00	419.20	40.00
09/17/95	10,218.00	4,053.99	396.75	592.64	58.00
09/18/95	11,191.00	5,438.83	486.00	537.17	48.00
09/19/95	9,348.00	4,602.77	492.38	691.75	74.00
09/20/95	7,900.00	4,020.15	508.88	505.60	64.00
09/21/95	9,626.00	4,967.02	516.00	596.81	62.00
09/22/95	9,252.00	4,912.81	531.00	684.65	74.00
09/23/95	8,364.00	4,246.82	507.75	585.48	70.00
09/24/95	11,452.00	5,664.50	494.63	641.31	56.00
09/25/95	14,092.00	6,695.53	475.13	789.15	56.00
09/26/95	9,290.00	4,048.12	435.75	798.94	86.00
09/27/95	7,804.00	3,339.18	427.88	421.42	54.00
09/28/95	11,810.00	6,147.11	520.50	708.60	60.00
09/29/95	9,633.00	3,681.06	382.13	674.31	70.00
09/30/95	10,002.00	3,623.22	362.25	560.11	56.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	300,868.00	127,009.38	12,738.82	17,892.78	1,786.00

Industry Location: JRC

October 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
10/01/95	9,671.00	1,856.83	192.00	348.16	36.00
10/02/95	7,040.00	3,350.20	475.88	422.40	60.00
10/03/95	9,473.00	5,513.29	582.00	738.89	78.00
10/04/95	10,960.00	6,773.28	618.00	1,096.00	100.00
10/05/95	7,217.00	3,161.05	438.00	418.59	58.00
10/06/95	7,810.00	3,704.91	474.38	312.40	40.00
10/07/95	9,100.00	3,545.63	389.63	473.20	52.00
10/08/95	9,880.00	3,849.54	389.63	573.04	58.00
10/09/95	10,207.00	4,432.39	434.25	653.25	64.00
10/10/95	7,954.00	2,699.43	339.38	668.14	84.00
10/11/95	6,249.00	1,504.45	240.75	412.43	66.00
10/12/95	5,656.00	1,310.78	231.75	135.74	24.00
10/13/95	5,038.00	1,177.03	233.63	161.22	32.00
10/14/95	8,924.00	1,840.58	206.25	303.42	34.00
10/15/95	6,312.00	1,268.71	201.00	328.22	52.00
10/16/95	9,866.00	1,657.49	168.00	789.28	80.00
10/17/95	12,380.00	3,871.85	312.75	22,129.99	1,787.56
10/18/95	9,661.00	3,046.89	315.38	1,294.57	134.00
10/19/95	8,905.00	4,541.55	510.00	569.92	64.00
10/20/95	9,968.00	4,739.78	475.50	1,016.74	102.00
10/21/95	8,140.00	3,852.26	473.25	618.64	76.00
10/22/95	10,123.00	4,790.71	473.25	992.05	98.00
10/23/95	7,304.00	4,163.28	570.00	598.93	82.00
10/24/95	10,360.00	5,275.83	509.25	828.80	80.00
10/25/95	8,170.00	3,979.85	487.13	637.26	78.00
10/26/95	10,170.00	5,297.35	520.88	630.54	62.00
10/27/95	10,028.00	3,008.40	300.00	681.90	68.00
10/28/95	6,274.00	3,387.96	540.00	439.18	70.00
10/29/95	8,080.00	5,344.92	661.50	387.84	48.00
10/30/95	8,615.00	5,349.92	621.00	637.51	74.00
10/31/95	9,680.00	2,904.00	300.00	542.08	56.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	269,215.00	111,200.11	12,684.42	39,840.33	3,797.56

Industry Location: JRC

November 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
11/01/95	8,737.00	4,239.63	485.25	664.01	76.00
11/02/95	7,794.00	4,372.43	561.00	662.49	85.00
11/03/95	10,258.00	7,231.89	705.00	923.22	90.00
11/04/95	8,110.00	4,044.86	498.75	811.00	100.00
11/05/95	8,100.00	4,331.48	534.75	1,053.00	130.00
11/06/95	9,444.00	6,374.70	675.00	1,303.27	138.00
11/07/95	9,393.00	5,635.80	600.00	1,127.16	120.00
11/08/95	8,571.00	3,625.53	423.00	925.67	108.00
11/09/95	10,343.00	4,359.57	421.50	703.32	68.00
11/10/95	8,112.00	2,141.57	264.00	584.06	72.00
11/11/95	11,740.00	3,966.59	337.87	1,033.12	88.00
11/12/95	10,671.00	4,017.63	376.50	426.84	40.00
11/13/95	13,049.00	5,607.81	429.75	756.84	58.00
11/14/95	6,180.00	2,333.75	377.63	519.12	84.00
11/15/95	8,490.00	3,116.93	367.13	594.30	70.00
11/16/95	6,492.00	2,436.97	375.38	454.44	70.00
11/17/95	7,253.00	6,582.10	907.50	594.75	82.00
11/18/95	6,126.00	3,043.89	496.88	526.84	86.00
11/19/95	7,210.00	3,985.33	552.75	721.00	100.00
11/20/95	9,658.00	5,273.27	546.00	830.59	86.00
11/21/95	8,803.00	4,661.19	529.50	20,211.69	2,296.00
11/22/95	5,779.00	1,601.53	277.13	2,727.69	472.00
11/23/95	5,038.00	1,110.88	220.50	191.44	38.00
11/24/95	4,436.00	1,084.60	244.50	133.08	30.00
11/25/95	4,530.00	1,087.20	240.00	108.72	24.00
11/26/95	7,665.00	1,103.76	144.00	306.60	40.00
11/27/95	9,668.00	1,914.26	198.00	502.74	52.00
11/28/95	6,856.00	2,968.44	432.97	1,145.91	167.14
11/29/95	12,173.00	5,071.64	416.63	803.42	66.00
11/30/95	10,173.00	3,563.09	350.25	793.49	78.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	250,852.00	110,888.33	12,989.12	42,139.82	5,014.14

Note: Data for 11/28/95 is monthly average.

Industry Location: JRC

December 1995	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
12/01/95	7,580.00	3,618.54	477.38	560.92	74.00
12/02/95	7,807.50	4,087.23	523.50	484.07	62.00
12/03/95	7,807.50	4,450.28	570.00	530.91	68.00
12/04/95	9,667.00	5,075.18	525.00	580.02	60.00
12/05/95	7,796.00	2,457.69	315.25	440.24	56.47
12/06/95	9,161.00	4,270.22	466.13	952.74	104.00
12/07/95	10,693.00	4,679.58	437.63	983.76	92.00
12/08/95	8,278.00	4,321.12	522.00	480.12	58.00
12/09/95	7,332.00	3,434.16	468.38	513.24	70.00
12/10/95	7,725.00	1,709.16	221.25	339.90	44.00
12/11/95	6,248.00	937.20	150.00	124.96	20.00
12/12/95	4,270.00	640.50	150.00	170.80	40.00
12/13/95	5,591.00	838.65	150.00	324.28	58.00
12/14/95	9,474.00	1,200.83	126.75	833.71	88.00
12/15/95	8,663.00	1,689.29	195.00	381.17	44.00
12/16/95	6,626.00	2,084.74	314.63	265.04	40.00
12/17/95	7,321.00	3,173.65	433.50	453.90	62.00
12/18/95	7,233.00	3,387.79	468.38	376.12	52.00
12/19/95	7,840.00	3,683.86	469.88	501.76	64.00
12/20/95	8,160.00	3,834.22	469.88	554.88	68.00
12/21/95	6,630.00	994.50	150.00	212.16	32.00
12/22/95	6,331.00	949.65	150.00	88.63	14.00
12/23/95	5,118.00	767.70	150.00	112.60	22.00
12/24/95	5,327.00	799.05	150.00	117.19	22.00
12/25/95	5,110.00	766.50	150.00	132.86	26.00
12/26/95	5,412.00	811.80	150.00	270.60	50.00
12/27/95	6,327.00	949.05	150.00	354.31	56.00
12/28/95	9,163.00	1,374.45	150.00	751.37	82.00
12/29/95	9,782.00	2,655.81	271.50	684.74	70.00
12/30/95	9,200.00	3,332.70	362.25	791.20	86.00
12/31/95	8,160.00	3,953.52	484.50	538.56	66.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	231,833.00	76,928.60	9,772.79	13,906.76	1,750.47

Flowdate	Comment
12/2/95	Flow data is 2 day average.
12/3/95	Flow data is 2 day average.
12/5/95	Data is monthly average.

1996

Industry Location: JRC

January 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
01/01/96	6,447.00	4,177.66	648.00	477.08	74.00
01/02/96	10,268.00	5,729.54	558.00	657.15	64.00
01/03/96	7,323.00	1,850.89	252.75	629.78	86.00
01/04/96	8,263.00	4,288.50	519.00	512.31	62.00
01/05/96	11,256.00	5,601.32	497.63	742.90	66.00
01/06/96	11,339.00	4,452.03	392.63	703.02	62.00
01/07/96	13,540.00	4,087.46	301.88	1,164.44	86.00
01/08/96	11,793.00	5,205.19	441.38	1,014.20	86.00
01/09/96	7,063.00	3,588.92	508.13	494.41	70.00
01/10/96	9,238.00	4,953.88	536.25	886.85	96.00
01/11/96	10,169.00	4,816.34	473.63	650.82	64.00
01/12/96	6,927.00	3,132.74	452.25	540.31	78.00
01/13/96	7,720.00	3,882.23	502.88	494.08	64.00
01/14/96	7,870.00	4,060.92	516.00	393.50	50.00
01/15/96	8,706.00	4,361.71	501.00	470.12	54.00
01/16/96	6,543.00	3,376.19	516.00	431.84	66.00
01/17/96	8,145.00	4,789.26	588.00	293.22	36.00
01/18/96	8,124.00	5,045.00	621.00	324.96	40.00
01/19/96	8,741.00	5,139.71	588.00	472.01	54.00
01/20/96	11,695.00	5,635.59	481.88	678.31	58.00
01/21/96	12,890.00	4,524.39	351.00	902.30	70.00
01/22/96	9,713.00	3,383.81	348.38	777.04	80.00
01/23/96	6,964.00	4,387.32	630.00	473.55	68.00
01/24/96	9,170.00	5,804.61	633.00	843.64	92.00
01/25/96	8,591.00	5,244.81	610.50	498.28	58.00
01/26/96	7,854.00	3,551.97	452.25	471.24	60.00
01/27/96	9,749.00	4,343.18	445.50	526.45	54.00
01/28/96	8,762.00	4,419.38	504.38	525.72	60.00
01/29/96	8,252.00	4,140.44	501.75	412.60	50.00
01/30/96	8,836.00	5,116.04	579.00	618.52	70.00
01/31/96	7,511.00	2,005.44	267.00	600.88	80.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	279,462.00	135,096.47	15,219.05	18,681.51	2,058.00

Flowdate	Comment

Industry Location: JRC

February 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
02/01/96	9,832.00	4,022.57	409.13	609.58	62.00
02/02/96	4,212.00	1,175.15	279.00	320.11	76.00
02/03/96	13,532.00	5,033.90	372.00	1,028.43	76.00
02/04/96	3,296.00	1,489.40	451.88	283.46	86.00
02/05/96	4,372.00	2,314.97	529.50	288.55	66.00
02/06/96	6,941.00	3,331.68	480.00	596.93	86.00
02/07/96	7,857.00	3,809.70	484.88	534.28	68.00
02/08/96	6,473.00	3,602.22	556.50	349.54	54.00
02/09/96	8,722.00	5,010.79	574.50	645.43	74.00
02/10/96	6,351.00	4,020.18	633.00	304.85	48.00
02/11/96	7,590.00	4,075.83	537.00	379.50	50.00
02/12/96	8,863.00	5,038.62	568.50	833.12	94.00
02/13/96	7,727.00	5,030.28	651.00	726.34	94.00
02/14/96	6,727.00	4,611.36	685.50	484.34	72.00
02/15/96	10,205.00	7,255.76	711.00	918.45	90.00
02/16/96	8,464.00	4,926.05	582.00	778.69	92.00
02/17/96	6,827.00	3,215.52	471.00	682.70	100.00
02/18/96	8,100.00	4,128.00	509.63	696.60	86.00
02/19/96	9,311.00	4,504.20	483.75	1,359.41	146.00
02/20/96	9,253.00	4,458.84	481.88	555.18	60.00
02/21/96	7,799.00	3,202.50	410.63	577.13	74.00
02/22/96	7,507.00	3,555.54	473.63	420.39	56.00
02/23/96	7,688.00	3,868.99	503.25	507.41	66.00
02/24/96	7,802.00	4,245.30	544.13	265.27	34.00
02/25/96	7,863.00	4,316.79	549.00	912.11	116.00
02/26/96	8,581.00	4,366.70	508.88	446.21	52.00
02/27/96	10,349.00	5,867.88	567.00	786.52	76.00
02/28/96	6,296.00	2,955.97	469.50	302.21	48.00
02/29/96	5,544.00	1,386.72	250.13	299.38	54.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	224,084.00	114,821.40	14,727.80	16,892.11	2,156.00

Flowdate	Comment

Industry Location: JRC

March 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
03/01/96	8,592.00	1,707.66	198.75	343.68	40.00
03/02/96	6,847.00	1,992.48	291.00	314.96	46.00
03/03/96	7,946.00	2,949.95	371.25	476.76	60.00
03/04/96	8,983.00	4,126.61	459.38	628.81	70.00
03/05/96	7,861.00	3,820.45	486.00	833.27	106.00
03/06/96	7,537.00	4,250.87	564.00	859.22	114.00
03/07/96	8,210.00	4,445.72	541.50	328.40	40.00
03/08/96	6,387.00	3,353.18	525.00	357.67	56.00
03/09/96	8,524.00	3,735.98	438.29	667.00	78.25
03/10/96	7,150.00	3,772.55	527.63	314.60	44.00
03/11/96	9,300.00	4,837.21	520.13	613.80	66.00
03/12/96	7,886.00	4,066.26	515.63	646.65	82.00
03/13/96	8,493.00	4,713.62	555.00	577.52	68.00
03/14/96	8,819.00	5,172.34	586.50	846.62	96.00
03/15/96	8,657.00	5,324.06	615.00	623.30	72.00
03/16/96	8,904.00	3,329.03	373.88	783.55	88.00
03/17/96	8,622.00	3,230.06	374.63	551.81	64.00
03/18/96	10,499.00	3,897.75	371.25	1,196.89	114.00
03/19/96	8,970.00	3,303.20	368.25	574.08	64.00
03/20/96	7,549.00	2,745.95	363.75	558.63	74.00
03/21/96	9,175.00	4,118.47	448.88	954.20	104.00
03/22/96	7,944.00	3,911.47	492.38	1,016.83	128.00
03/23/96	8,727.00	4,388.63	502.88	890.15	102.00
03/24/96	8,276.00	4,158.69	502.50	662.08	80.00
03/25/96	9,411.00	4,411.41	468.75	865.81	92.00
03/26/96	8,047.00	3,210.75	399.00	466.73	58.00
03/27/96	7,351.00	1,521.66	207.00	294.04	40.00
03/28/96	9,625.00	1,566.47	162.75	577.50	60.00
03/29/96	7,056.00	2,161.82	306.38	465.70	66.00
03/30/96	9,179.00	4,361.22	475.13	715.96	78.00
03/31/96	8,146.00	4,133.12	507.38	733.14	90.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	258,673.00	112,718.62	13,519.85	19,739.37	2,340.25

Flowdate	Comment
3/9/96	Data is monthly avg.

Industry Location: JRC

April 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
04/01/96	8,158.00	3,811.83	467.25	1,109.49	136.00
04/02/96	8,330.00	3,820.39	458.63	1,066.24	128.00
04/03/96	8,188.00	3,911.82	477.75	736.92	90.00
04/04/96	9,033.00	4,119.05	456.00	1,065.89	118.00
04/05/96	9,900.00	5,431.44	548.63	1,069.20	108.00
04/06/96	8,192.00	4,190.21	511.50	802.82	98.00
04/07/96	7,077.00	4,118.81	582.00	537.85	76.00
04/08/96	7,874.00	4,553.14	578.25	629.92	80.00
04/09/96	8,644.00	4,119.73	476.60	622.37	72.00
04/10/96	8,592.00	4,378.74	509.63	601.44	70.00
04/11/96	8,247.00	4,230.71	513.00	610.28	74.00
04/12/96	7,819.00	5,195.73	664.50	547.33	70.00
04/13/96	8,367.00	4,132.29	493.88	518.75	62.00
04/14/96	9,644.00	4,321.77	448.13	1,369.45	142.00
04/15/96	8,393.00	4,141.95	493.50	520.37	62.00
04/16/96	10,919.00	5,716.10	523.50	960.87	88.00
04/17/96	8,268.00	3,401.29	411.38	1,074.84	130.00
04/18/96	8,926.00	3,454.36	387.00	803.34	90.00
04/19/96	9,585.00	3,730.96	389.25	1,111.86	116.00
04/20/96	9,894.00	4,033.09	407.63	1,028.98	104.00
04/21/96	10,121.00	5,905.60	583.50	1,133.55	112.00
04/22/96	7,857.00	3,055.43	388.88	534.28	68.00
04/23/96	5,006.00	1,212.70	242.25	380.46	76.00
04/24/96	4,460.00	669.00	150.00	205.16	46.00
04/25/96	3,100.00	465.00	150.00	142.60	46.00
04/26/96	3,670.00	550.50	150.00	205.52	56.00
04/27/96	7,584.00	1,137.60	150.00	591.55	78.00
04/28/96	8,968.00	2,687.08	299.63	394.59	44.00
04/29/96	7,719.00	2,799.14	362.63	494.02	64.00
04/30/96	8,224.00	4,080.17	496.13	641.47	78.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	240,759.00	107,375.62	12,771.03	21,511.40	2,582.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	8,025.30	3,579.19	425.70	717.05	86.07			

Flowdate	Comment

Industry Location: JRC

May 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
05/01/96	7,993.00	4,010.49	501.75	623.45	78.00
05/02/96	8,800.00	3,900.60	443.25	334.40	38.00
05/03/96	8,219.00	4,096.19	498.38	526.02	64.00
05/04/96	7,808.00	4,210.46	539.25	452.86	58.00
05/05/96	9,000.00	4,765.50	529.50	450.00	50.00
05/06/96	7,652.00	3,718.87	486.00	596.86	78.00
05/07/96	8,687.00	3,739.75	430.50	573.34	66.00
05/08/96	6,202.00	2,751.33	443.62	582.99	94.00
05/09/96	7,454.00	3,622.64	486.00	641.04	86.00
05/10/96	8,716.00	4,811.23	552.00	575.26	66.00
05/11/96	7,220.00	3,863.64	535.13	490.96	68.00
05/12/96	4,171.00	1,535.97	368.25	91.76	22.00
05/13/96	3,584.00	1,307.73	364.88	93.18	26.00
05/14/96	6,999.00	1,900.23	271.50	545.92	78.00
05/15/96	8,220.00	2,774.25	337.50	641.16	78.00
05/16/96	6,942.00	2,913.07	419.63	499.82	72.00
05/17/96	8,198.00	4,414.62	538.50	606.65	74.00
05/18/96	8,175.00	3,510.18	429.38	931.95	114.00
05/19/96	9,190.00	4,938.52	537.38	441.12	48.00
05/20/96	8,318.00	4,158.00	499.88	598.90	72.00
05/21/96	7,927.00	5,267.49	664.50	443.91	56.00
05/22/96	8,370.00	3,979.94	475.50	518.94	62.00
05/23/96	9,590.00	4,265.15	444.75	652.12	68.00
05/24/96	7,436.00	3,970.82	534.00	535.39	72.00
05/25/96	7,664.00	4,219.03	550.50	643.78	84.00
05/26/96	8,146.00	4,319.42	530.25	667.97	82.00
05/27/96	7,361.00	3,329.01	452.25	338.61	46.00
05/28/96	8,651.00	3,763.19	435.00	484.46	56.00
05/29/96	7,975.00	3,376.46	423.38	733.70	92.00
05/30/96	9,168.00	4,479.76	488.63	770.11	84.00
05/31/96	7,573.00	3,379.45	446.25	590.69	78.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	241,409.00	115,293.00	14,657.29	16,677.33	2,110.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	7,787.39	3,719.13	472.82	537.98	68.06			

Flowdate	Comment

Industry Location: JRC

June 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
06/01/96	8,403.00	3,894.79	463.50	554.60	66.00
06/02/96	8,183.00	4,799.33	586.50	736.47	90.00
06/03/96	7,545.00	4,300.65	570.00	467.79	62.00
06/04/96	8,522.00	6,480.98	760.50	647.67	76.00
06/05/96	7,864.00	3,199.70	406.88	786.40	100.00
06/06/96	7,152.00	3,331.04	465.75	457.73	64.00
06/07/96	7,214.00	2,675.53	370.88	447.27	62.00
06/08/96	6,764.00	2,135.73	315.75	351.73	52.00
06/09/96	6,781.00	2,535.21	373.87	366.17	54.00
06/10/96	7,538.00	2,614.78	346.88	467.36	62.00
06/11/96	8,323.00	3,748.51	450.38	599.26	72.00
06/12/96	8,217.00	4,039.72	491.63	739.53	90.00
06/13/96	8,755.00	2,140.60	244.50	857.99	98.00
06/14/96	4,775.00	1,470.13	307.88	124.15	26.00
06/15/96	4,350.00	1,807.43	415.50	452.40	104.00
06/16/96	4,536.00	1,454.38	320.63	263.09	58.00
06/17/96	4,383.00	1,231.62	281.00	254.21	58.00
06/18/96	4,730.00	709.50	150.00	132.44	28.00
06/19/96	6,973.00	1,401.57	201.00	278.92	40.00
06/20/96	12,591.00	2,086.96	165.75	1,309.46	104.00
06/21/96	9,790.00	2,371.63	242.25	587.40	60.00
06/22/96	9,774.00	2,184.49	223.50	469.15	48.00
06/23/96	10,133.00	3,811.33	376.13	770.11	76.00
06/24/96	10,440.00	2,893.24	277.13	125.28	12.00
06/25/96	8,725.00	2,967.63	340.13	139.60	16.00
06/26/96	8,009.00	3,501.94	437.25	208.23	26.00
06/27/96	7,357.00	3,432.04	466.50	617.99	84.00
06/28/96	7,191.00	3,624.26	504.00	330.79	46.00
06/29/96	7,744.00	4,495.39	580.50	650.50	84.00
06/30/96	7,870.00	4,639.37	589.50	566.64	72.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	230,632.00	89,979.48	11,725.67	14,760.32	1,890.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	7,687.73	2,999.32	390.86	492.01	63.00			

Flowdate	Comment

Industry Location: JRC

July 1996	Flow (M3)	CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
07/01/96	7,368.00	3,644.43	494.63	559.97	76.00
07/02/96	7,893.00	3,587.37	454.50	647.23	82.00
07/03/96	7,390.00	3,574.91	483.75	620.76	84.00
07/04/96	7,300.00	4,018.65	550.50	365.00	50.00
07/05/96	7,240.00	3,765.74	520.13	883.28	122.00
07/06/96	8,143.00	3,933.07	483.00	570.01	70.00
07/07/96	10,000.00	4,830.00	483.00	700.00	70.00
07/08/96	9,788.00	3,989.88	407.63	626.43	64.00
07/09/96	7,630.00	3,436.40	450.38	457.80	60.00
07/10/96	7,503.00	4,287.96	571.50	615.25	82.00
07/11/96	8,794.00	5,315.97	604.50	385.97	43.89
07/12/96	8,794.00	3,508.81	399.00	474.88	54.00
07/13/96	7,900.00	1,943.40	246.00	347.60	44.00
07/14/96	9,647.00	3,006.29	311.63	598.11	62.00
07/15/96	8,561.00	5,072.39	592.50	633.51	74.00
07/16/96	7,810.00	3,473.50	444.75	812.24	104.00
07/17/96	5,121.00	768.15	150.00	1,766.75	345.00
07/18/96	1,115.00	167.25	150.00	419.56	376.29
07/19/96	1,592.00	238.80	150.00	89.15	56.00
07/20/96	2,075.00	311.25	150.00	78.85	38.00
07/21/96	7,607.00	1,141.05	150.00	243.42	32.00
07/22/96	6,155.00	923.25	150.00	246.20	40.00
07/23/96	7,260.00	1,508.27	207.75	421.08	58.00
07/24/96	8,020.00	3,058.67	381.38	545.36	68.00
07/25/96	8,726.00	4,129.58	473.25	645.72	74.00
07/26/96	7,603.00	3,526.88	463.88	517.00	68.00
07/27/96	7,761.00	3,757.33	484.13	946.84	122.00
07/28/96	9,708.00	4,648.97	478.88	757.22	78.00
07/29/96	9,110.00	3,658.85	401.63	473.72	52.00
07/30/96	9,176.00	3,633.70	396.00	513.86	56.00
07/31/96	7,699.00	3,675.35	477.38	508.13	66.00

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)
Totals:	230,489.00	96,536.12	12,161.68	17,470.91	2,671.18

		CBOD (kg)	CBOD (mg/l)	TSS (kg)	TSS (mg/l)			
Avg:	7,435.13	3,114.07	392.31	563.58	86.17			

Flowdate	Comment

AUGUST REPORT FOR JAMES RIVER

DATE	[redacted]	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/96	8,112	492	3,994	76	617
08/02/96	8,363	531	4,438	58	485
08/03/96	8,030	538	4,318	74	594
08/04/96	8,891	440	3,911	46	409
08/05/96	9,992	513	5,126	66	659
08/06/96	9,345	457	4,272	74	692
08/07/96	8,170	491	4,010	60	490
08/08/96	8,141	494	4,021	78	635
08/09/96	9,730	573	5,575	56	545
08/10/96	10,662	433	4,614	70	746
08/11/96	10,120	395	4,000	86	870
08/12/96	8,440	557	4,703	60	506
08/13/96	8,940	504	4,506	58	519
08/14/96	10,281	480	4,939	52	535
08/15/96	10,156	477	4,844	190	1,930
08/16/96	8,130	499	4,058	72	585
08/17/96	8,610	758	6,522	76	654
08/18/96	8,118	556	4,515	44	357
08/19/96	10,189	458	4,669	54	550
08/20/96	9,920	488	4,836	68	675
08/21/96	8,644	380	3,280	66	571
08/22/96	8,529	417	3,560	32	273
08/23/96	8,852	425	3,761	52	460
08/24/96	8,060	570	4,594	68	548
08/25/96	8,170	576	4,706	124	1,013
08/26/96	11,296	486	5,486	56	633
08/27/96	9,960	443	4,407	78	777
08/28/96	7,368	452	3,332	76	560
08/29/96	8,606	506	4,350	82	706
08/30/96	7,361	449	3,304	90	662
08/31/96	8,250	470	3,877	118	974
	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	277,436	15,306	136,529	2,260	20,229
Monthly Avg	8,950	494	4,404	73	653
Comments					

SEPTEMBER 1996

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/96	8,230	554	4,555	76	625
09/02/96	8,060	520	4,189	124	999
09/03/96	11,440	520	5,946	76	869
09/04/96	11,190	435	4,864	108	1,209
09/05/96	12,368	345	4,272	94	1,163
09/06/96	9,790	280	2,739	88	862
09/07/96	11,168	344	3,845	84	938
09/08/96	9,013	501	4,516	98	883
09/09/96	7,650	430	3,288	44	337
09/10/96	9,577	468	4,482	62	594
09/11/96	9,501	475	4,514	86	817
09/12/96	8,329	620	5,160	58	483
09/13/96	8,298	543	4,506	54	448
09/14/96	9,510	535	5,089	64	609
09/15/96	8,621	558	4,811	76	655
09/16/96	7,564	557	4,209	60	454
09/17/96	9,443	512	4,834	62	585
09/18/96	8,731	417	3,641	68	594
09/19/96	9,146	363	3,320	58	530
09/20/96	8,514	327	2,784	54	460
09/21/96	8,100	397	3,214	48	389
09/22/96	9,645	414	3,993	42	405
09/23/96	8,142	500	4,070	58	472
09/24/96	8,350	504	4,208	46	384
09/25/96	8,422	432	3,635	40	337
09/26/96	8,606	374	3,214	78	671
09/27/96	10,557	360	3,805	70	739
09/28/96	8,950	421	3,769	108	967
09/29/96	7,549	409	3,089	100	755
09/30/96	9,593	495	4,752	90	863

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	274,057	13,608	123,310	2,174	20,096
Monthly Avg	9,135	454	4,110	72	670
Comments					

OCTOBER 1996

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/96	9,730	336	3,266	40	389
10/02/96	11,786	282	3,324	68	801
10/03/96	9,597	266	2,548	58	557
10/04/96	11,421	349	3,987	110	1,256
10/05/96	12,549	314	3,939	96	1,205
10/06/96	12,600	278	3,497	72	907
10/07/96	13,260	264	3,496	104	1,379
10/08/96	7,683	312	2,394	88	676
10/09/96	9,926	430	4,266	128	1,271
10/10/96	9,830	461	4,530	102	1,003
10/11/96	11,251	336	3,776	58	653
10/12/96	10,936	454	4,962	84	919
10/13/96	9,830	435	4,276	42	413
10/14/96	10,001	366	3,660	40	400
10/15/96	11,530	336	3,874	50	577
10/16/96	12,424	332	4,128	76	944
10/17/96	11,729	383	4,491	56	657
10/18/96	13,947	251	3,504	60	837
10/19/96	10,510	299	3,141	58	610
10/20/96	8,350	340	2,837	44	367
10/21/96	8,710	390	3,397	62	540
10/22/96	8,792	432	3,798	60	528
10/23/96	10,031	404	4,051	62	622
10/24/96	8,356	454	3,792	82	685
10/25/96	9,330	325	3,030	58	541
10/26/96	10,415	344	3,582	52	542
10/27/96	9,327	308	2,872	54	504
10/28/96	9,505	412	3,914	62	589
10/29/96	10,498	440	4,614	82	861
10/30/96	11,267	353	3,972	80	901
10/31/96	8,752	386	3,380	66	578

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	323,873	11,067	114,297	2,154	22,709
daily avg.	10,448	357	3,687	69	733
Comments					

NOVEMBER 1996

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/96	8,076	481	3883	86	695
11/02/96	8,723	438	3821	64	558
11/03/96	7,783	527	4098	112	872
11/04/96	8,235	545	4490	84	692
11/05/96	8,518	472	4022	52	443
11/06/96	7,461	545	4063	82	612
11/07/96	7,464	567	4232	80	597
11/08/96	8,460	560	4733	76	643
11/09/96	9,364	502	4702	54	506
11/10/96	7,425	585	4344	66	490
11/11/96	7,409	557	4123	84	622
11/12/96	7,310	542	3964	80	585
11/13/96	6,443	585	3769	86	554
11/14/96	8,963	605	5425	90	807
11/15/96	11,924	320	3814	102	1216
11/16/96	10,133	358	3625	136	1378
11/17/96	8,121	449	3648	112	910
11/18/96	8,322	390	3246	86	716
11/19/96	8,066	510	4114	90	726
11/20/96	8,015	519	4163	100	802
11/21/96	9,646	534	5155	140	1350
11/22/96	10,507	430	4519	72	757
11/23/96	9,879	451	4453	80	790
11/24/96	11,414	498	5684	116	1324
11/25/96	11,100	498	5528	78	866
11/26/96	9,846	498	4903	78	768
11/27/96	11,032	498	5494	122	1346
11/28/96	9,300	498	4631	110	1023
11/29/96	9,540	498	4751	102	973
11/30/96	10,690	484	5175	86	919

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly total	269,169	14,943	132,571	2,706	24,538
Daily avg.	8,972	498	4,419	90	818

Comments 11/24 - 11/29 = BOD's monthly avg (Results not good due to bad distilled water)

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/96	7,770	545	4231	94	730
12/02/96	7,377	578	4260	72	531
12/03/96	9,911	536	5315	76	753
12/04/96	9,452	452	4275	80	756
12/05/96	11,029	460	5075	78	860
12/06/96	7,759	590	4577	74	574
12/07/96	9,556	602	5748	80	764
12/08/96	9,913	499	4948	78	773
12/09/96	11,163	559	6242	82	915
12/10/96	11,400	453	5169	86	980
12/11/96	10,930	473	5164	142	1552
12/12/96	10,007	436	4364	78	781
12/13/96	9,064	503	4555	76	689
12/14/96	9,311	559	5203	72	670
12/15/96	7,024	506	3556	60	421
12/16/96	7,541	689	5192	80	603
12/17/96	7,415	707	5239	68	504
12/18/96	7,823	690	5398	58	454
12/19/96	7,877	614	4833	62	488
12/20/96	8,340	626	5217	98	817
12/21/96	8,199	668	5473	82	672
12/22/96	8,000	597	4776	68	544
12/23/96	9,670	590	5700	104	1006
12/24/96	9,150	601	5497	150	1373
12/25/96	10,540	501	5281	87	917
12/26/96	6,315	232	1464	84	530
12/27/96	7,110	273	1941	104	739
12/28/96	8,563	272	2328	142	1216
12/29/96	8,733	200	1742	118	1030
12/30/96	11,376	196	2227	32	364
12/31/96	10,095	326	3290	120	1211

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly total	278,413	15,527	138,276	2,685	24,222
Daily avg.	8,981	501	4,461	87	781
Comments	12/25/97 - Avg. est. no sample, sampler left in stby mode.				

MIN	6315	195.75	1463.501	32	364.032
MAX	11400	706.5	6241.568	150	1552.06

1997

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/97	7,130	502	3577	124	884
01/02/97	9,970	475	4737	172	1715
01/03/97	9,503	496	4711	82	779
01/04/97	10,943	559	6114	90	985
01/05/97	9,285	483	4485	106	984
01/06/97	8,018	553	4432	82	657
01/07/97	9,205	502	4622	94	865
01/08/97	9,970	513	5115	66	658
01/09/97	12,451	435	5412	40	498
01/10/97	11,830	599	7080	96	1136
01/11/97	12,850	410	5262	86	1105
01/12/97	9,831	396	3889	86	845
01/13/97	9,250	514	4756	52	481
01/14/97	9,750	515	5024	72	702
01/15/97	9,411	531	4994	152	1430
01/16/97	9,232	507	4681	116	1071
01/17/97	10,299	490	5048	110	1133
01/18/97	9,340	444	4144	100	934
01/19/97	10,171	409	4161	84	854
01/20/97	8,609	518	4462	148	1274
01/21/97	9,294	500	4642	172	1599
01/22/97	10,616	447	4745	64	679
01/23/97	9,430	444	4183	54	509
01/24/97	9,580	429	4110	76	728
01/25/97	9,507	433	4118	98	932
01/26/97	8,771	483	4233	104	912
01/27/97	8,507	504	4291	116	987
01/28/97	9,178	510	4681	50	459
01/29/97	9,995	521	5210	78	780
01/30/97	9,099	483	4391	158	1438
01/31/97	8,142	488	3972	106	863
	Flow, m3	**BOD, mg/L**	**BOD, kg/d**	**TSS, mg/L**	**TSS, kg/d**
Monthly Total	299,167	15,090	145,282	3,034	28,877
daily avg.	9,651	487	4,687	98	932
Comments					
MIN	**7130**	**396**	**3577**	**40**	**459**
MAX	**12850**	**599**	**7080**	**172**	**1715**

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/97	9,840	512	5,037	178	1,752
02/02/97	8,460	477	4,035	84	711
02/03/97	8,168	401	3,274	98	800
02/04/97	9,020	411	3,707	92	830
02/05/97	9,553	380	3,629	168	1,605
02/06/97	8,693	359	3,116	110	956
02/07/97	7,873	461	3,631	70	551
02/08/97	11,135	374	4,159	74	824
02/09/97	9,066	440	3,988	82	743
02/10/97	8,709	474	4,125	70	610
02/11/97	9,164	432	3,959	72	660
02/12/97	8,750	421	3,682	70	613
02/13/97	11,088	408	4,520	76	843
02/14/97	9,760	433	4,227	86	839
02/15/97	10,209	360	3,679	74	755
02/16/97	9,042	405	3,665	82	741
02/17/97	12,985	358	4,645	100	1,299
02/18/97	11,548	339	3,919	84	970
02/19/97	12,312	407	5,010	86	1,059
02/20/97	12,655	294	3,721	110	1,392
02/21/97	12,628	383	4,840	80	1,010
02/22/97	12,439	421	5,234	74	920
02/23/97	9,428	362	3,412	80	754
02/24/97	9,046	373	3,372	124	1,122
02/25/97	10,587	311	3,287	90	953
02/26/97	12,572	353	4,432	96	1,207
02/27/97	13,378	426	5,699	80	1,070
02/28/97	13,170	347	4,563	70	922

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	291,278	11,119	114,568	2,560	26,511
daily avg.	10,403	397	4,092	91	947
Comments					

Industrial User Monthly Billing Information for MARCH 1997

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/97	13,975	402	5,623	76	1,062
03/02/97	13,317	287	3,825	58	772
03/03/97	11,190	296	3,311	86	962
03/04/97	14,103	300	4,231	80	1,128
03/05/97	13,056	293	3,819	70	914
03/06/97	14,065	322	4,531	76	1,069
03/07/97	12,729	323	4,105	74	942
03/08/97	12,596	340	4,284	76	957
03/09/97	13,153	294	3,867	68	894
03/10/97	12,927	301	3,893	102	1,319
03/11/97	13,259	312	4,137	90	1,193
03/12/97	11,060	356	3,940	70	774
03/13/97	10,004	288	2,881	92	920
03/14/97	8,325	438	3,646	80	666
03/15/97	8,501	432	3,672	110	935
03/16/97	8,380	377	3,155	80	670
03/17/97	8,218	434	3,563	66	542
03/18/97	8,501	461	3,915	50	425
03/19/97	8,293	467	3,869	56	464
03/20/97	8,556	578	4,941	52	445
03/21/97	8,444	567	4,788	58	490
03/22/97	8,380	437	3,658	162	1,358
03/23/97	8,930	453	4,045	92	822
03/24/97	6,873	596	4,098	74	509
03/25/97	9,137	501	4,578	74	676
03/26/97	9,915	405	4,016	64	635
03/27/97	8,580	475	4,077	112	961
03/28/97	8,271	475	3,927	84	695
03/29/97	12,046	405	4,883	112	1,349
03/30/97	9,736	354	3,443	78	759
03/31/97	8,780	389	3,418	68	597

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	323,300	12,356	124,137	2,490	25,906
daily avg.	10,429	399	4,004	80	836
Comments					

04/21/97

Industrial User Monthly Billing Information for MARCH 1997

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/97	8,781	455	3,991	76	667
04/02/97	9,013	714	6,437	88	793
04/03/97	9,531	425	4,050	68	648
04/04/97	9,295	419	3,893	60	558
04/05/97	8,465	459	3,882	48	406
04/06/97	7,895	475	3,751	54	426
04/07/97	8,340	557	4,644	86	717
04/08/97	8,844	497	4,391	90	796
04/09/97	9,800	435	4,267	88	862
04/10/97	9,912	428	4,241	92	912
04/11/97	7,803	534	4,167	88	687
04/12/97	9,033	464	4,191	96	867
04/13/97	9,139	576	5,264	100	914
04/14/97	10,401	425	4,423	168	1,747
04/15/97	9,474	405	3,841	142	1,345
04/16/97	10,036	363	3,639	140	1,405
04/17/97	8,956	385	3,446	94	842
04/18/97	10,169	471	4,793	102	1,037
04/19/97	9,095	527	4,792	102	928
04/20/97	8,216	528	4,338	84	690
04/21/97	9,084	486	4,418	82	745
04/22/97	9,341	418	3,906	122	1,140
04/23/97	9,661	535	5,166	84	812
04/24/97	9,389	500	4,690	88	826
04/25/97	10,289	498	5,120	146	1,502
04/26/97	9,427	422	3,977	160	1,508
04/27/97	8,261	459	3,792	82	677
04/28/97	9,135	150	1,370	74	676
04/29/97	10,457	470	4,917	102	1,067
04/30/97	8,552	449	3,839	62	530

	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
Monthly Total	275,794	13,928	127,638	2,868	26,732
daily avg.	9,193	464	4,255	96	891
Comments	4-12-97 - NO SAMPLE sampler malfuctioning				

05/09/97

INDUSTRIAL USER MONTHLY BILLING INFORMATION FOR MAY 1997

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
05/01/97	8,608	478	4,116	100	861	70	603
05/02/97	9,110	487	4,434	100	911	68	619
05/03/97	9,055	537	4,863	134	1,213	100	906
05/04/97	9,656	536	5,171	116	1,120	88	850
05/05/97	9,682	499	4,829	98	949	68	658
05/06/97	9,200	520	4,782	68	626	48	442
05/07/97	9,033	427	3,858	86	777	58	524
05/08/97	7,893	452	3,564	78	616	52	410
05/09/97	8,461	392	3,312	110	931	84	711
05/10/97	8,140	449	3,651	110	895	76	619
05/11/97	9,207	457	4,205	112	1,031	66	608
05/12/97	9,672	464	4,483	102	987	68	658
05/13/97	9,616	534	5,131	108	1,039	74	712
05/14/97	10,668	365	3,888	76	811	58	619
05/15/97	9,332	388	3,618	62	579	42	392
05/16/97	9,495	485	4,600	104	987	62	589
05/17/97	8,280	525	4,350	48	397	32	265
05/18/97	8,282	529	4,379	84	696	52	431
05/19/97	9,618	512	4,923	96	923	60	577
05/20/97	8,620	464	3,995	114	983	74	638
05/21/97	9,047	399	3,613	92	832	66	597
05/22/97	9,407	467	4,392	76	715	52	489
05/23/97	8,424	419	3,525	86	724	46	388
05/24/97	9,390	509	4,775	128	1,202	74	695
05/25/97	8,588	507	4,357	70	601	52	447
05/26/97	9,677	659	6,376	86	832	56	542
05/27/97	10,556	478	5,043	94	992	50	528
05/28/97	9,402	437	4,104	112	1,053	70	658
05/29/97	9,547	418	3,988	86	821	58	554
05/30/97	11,200	423	4,738	124	1,389	80	896
05/31/97	9,244	516	4,773	96	887	54	499

JRC	Flow, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Pt, mg/L	PT, kg/L
Monthly Total	286,110	14,726	135,839	2,956	27,380	1,958	18,120
daily avg.	9,229	475	4,382	95	883	63	585
Comments							

MIN	7,893	365	3,312	48	397	32	265
MAX	11,200	659	6,376	134	1,389	100	906

06/09/97

INDUSTRIAL USER MONTHLY BILLING INFORMATION FOR JUNE 1997

DATE	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
06/01/97	9,504	490	4,655	82	779	58	551
06/02/97	9,763	495	4,833	90	879	64	625
06/03/97	9,853	464	4,571	94	926	64	631
06/04/97	8,992	456	4,097	88	791	58	522
06/05/97	9,277	579	5,371	100	928	60	557
06/06/97	10,131	481	4,874	66	669	44	446
06/07/97	9,931	551	5,467	70	695	52	516
06/08/97	9,484	521	4,940	66	626	36	341
06/09/97	9,950	564	5,612	74	736	50	498
06/10/97	9,881	439	4,335	66	652	50	494
06/11/97	9,292	468	4,349	68	632	42	390
06/12/97	9,809	494	4,844	80	785	54	530
06/13/97	10,301	466	4,798	70	721	52	536
06/14/97	9,802	471	4,617	98	961	60	588
06/15/97	8,254	449	3,708	74	611	52	429
06/16/97	13,011	404	5,260	472	6,141	354	4,606
06/17/97	10,998	281	3,093	154	1,694	100	1,100
06/18/97	11,001	236	2,599	62	682	48	528
06/19/97	9,699	340	3,295	40	388	18	175
06/20/97	11,299	421	4,758	86	972	54	610
06/21/97	11,236	438	4,917	108	1,213	40	449
06/22/97	10,377	381	3,954	70	726	52	540
06/23/97	9,681	447	4,327	60	581	40	387
06/24/97	10,566	376	3,970	64	676	48	507
06/25/97	10,862	350	3,800	72	782	46	500
06/26/97	9,565	420	4,014	64	612	34	325
06/27/97	9,215	554	5,107	80	737	52	479
06/28/97	10,132	440	4,457	60	608	36	365
06/29/97	9,290	657	6,104	64	595	40	372
06/30/97	9,714	484	4,703	78	758	54	525
	JRC, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	VSS, mg/L	VSS, mg/L
Monthly Total	300,870	13,615	135,429	2,720	28,556	1,812	19,120
daily avg.	10,029	454	4,514	91	952	60	637
Comments:							

MIN	8,254	236	2,599	40	388	18	175
MAX	13,011	657	6,104	472	6,141	354	4,606

07/08/97

James River Corp. Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
07/01/97	9,775	597	5,836	78	762	x	x	
07/02/97	8,393	392	3,289	112	940	x	x	
07/03/97	11,350	302	3,422	112	1,271	x	x	
07/04/97	9,069	502	4,550	58	526	x	x	
07/05/97	10,622	531	5,640	154	1,636	x	x	
07/06/97	10,172	403	4,101	50	509	x	x	
07/07/97	9,570	827	7,910	52	498	x	x	
07/08/97	10,060	453	4,553	76	765	x	x	
07/09/97	8,666	404	3,500	70	607	x	x	
07/10/97	10,553	391	4,124	92	971	x	x	
07/11/97	11,152	337	3,755	96	1,071	x	x	
07/12/97	9,431	437	4,124	70	660	x	x	
07/13/97	9,429	428	4,036	72	679	x	x	
07/14/97	10,794	432	4,663	76	820	x	x	
07/15/97	9,664	377	3,646	68	657	x	x	
07/16/97	9,464	351	3,325	72	681	x	x	
07/17/97	13,387	281	3,760	56	750	x	x	
07/18/97	9,969	330	3,294	68	678	x	x	
07/19/97	9,688	441	4,272	68	659	x	x	
07/20/97	8,836	387	3,420	80	707	x	x	
07/21/97	12,144	378	4,590	362	4,396	x	x	
07/22/97	10,727	285	3,061	122	1,309	x	x	
07/23/97	9,791	348	3,407	66	646	x	x	
07/24/97	9,296	408	3,793	74	688	x	x	
07/25/97	9,001	404	3,635	84	756	x	x	
07/26/97	9,993	467	4,662	74	739	x	x	
07/27/97	8,964	407	3,644	62	556	x	x	
07/28/97	11,793	352	4,153	66	778	x	x	
07/29/97	9,351	360	3,363	132	1,234	x	x	
07/30/97	12,027	425	5,110	76	914	x	x	
07/31/97	10,009	409	4,095	62	621	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
July Total	313,140	12,844	128,733	2,760	28,483	x	x	
July Daily Avg.	10,101	414	4,153	89	919	x	x	

James River Corp. Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
08/01/97	9,659	432	4,169	120	1,159	x	x	
08/02/97	9,926	524	5,204	110	1,092	x	x	
08/03/97	10,973	448	4,913	172	1,887	x	x	
08/04/97	10,198	428	4,367	74	755	x	x	
08/05/97	11,556	369	4,269	232	2,681	x	x	
08/06/97	9,685	358	3,465	80	775	x	x	
08/07/97	9,717	381	3,702	114	1,108	x	x	
08/08/97	11,339	440	4,983	76	862	x	x	
08/09/97	10,023	438	4,390	76	762	x	x	
08/10/97	9,656	386	3,726	94	908	x	x	
08/11/97	9,873	415	4,095	110	1,086	x	x	
08/12/97	10,689	426	4,554	212	2,266	x	x	
08/13/97	9,752	400	3,898	98	956	x	x	
08/14/97	10,116	416	4,211	92	931	x	x	
08/15/97	11,935	546	6,512	194	2,315	x	x	
08/16/97	10,156	387	3,934	90	914	x	x	
08/17/97	9,940	447	4,443	98	974	x	x	
08/18/97	9,214	449	4,139	148	1,364	x	x	
08/19/97	9,329	523	4,880	88	821	x	x	
08/20/97	9,536	410	3,909	70	668	x	x	
08/21/97	10,076	421	4,243	42	423	x	x	
08/22/97	9,300	470	4,366	64	595	x	x	
08/23/97	9,057	541	4,898	64	580	x	x	
08/24/97	9,249	500	4,627	84	777	x	x	
08/25/97	9,237	503	4,649	72	665	x	x	
08/26/97	9,454	504	4,768	88	832	x	x	
08/27/97	8,631	550	4,748	70	604	x	x	
08/28/97	8,335	593	4,938	56	467	x	x	
08/29/97	9,134	515	4,699	74	676	x	x	
08/30/97	8,820	557	4,908	60	529	x	x	
08/31/97	9,100	449	4,081	46	419	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Aug Total	303,665	14,224	138,690	3,068	30,848	x	x	
Aug Daily Avg.	9,796	459	4,474	99	995	x	x	

James River Corp. Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
09/01/97	10,415	519	5,402	54	562	x	x	
09/02/97	10,434	483	5,040	88	918	x	x	
09/03/97	10,836	467	5,063	32	347	x	x	
09/04/97	9,667	296	2,857	84	812	x	x	
09/05/97	11,284	521	5,873	104	1,174	x	x	
09/06/97	9,456	512	4,837	80	756	x	x	
09/07/97	8,891	487	4,331	62	551	x	x	
09/08/97	11,471	417	4,788	54	619	x	x	
09/09/97	10,727	440	4,719	58	622	x	x	
09/10/97	8,892	477	4,238	72	640	x	x	
09/11/97	11,528	520	5,992	52	599	x	x	
09/12/97	10,840	420	4,557	26	282	x	x	
09/13/97	9,852	446	4,393	54	532	x	x	
09/14/97	10,149	480	4,875	70	710	x	x	
09/15/97	11,482	461	5,292	80	919	x	x	
09/16/97	10,371	458	4,749	82	850	x	x	
09/17/97	11,847	483	5,727	170	2,014	x	x	
09/18/97	11,724	405	4,753	62	727	x	x	
09/19/97	11,276	446	5,028	54	609	x	x	
09/20/97	10,687	399	4,264	72	769	x	x	
09/21/97	10,089	423	4,271	58	585	x	x	
09/22/97	10,611	473	5,022	62	658	x	x	
09/23/97	11,056	521	5,755	56	619	x	x	
09/24/97	9,148	515	4,707	52	476	x	x	
09/25/97	9,593	588	5,641	52	499	x	x	
09/26/97	10,747	575	6,174	86	924	x	x	
09/27/97	9,620	531	5,108	68	654	x	x	
09/28/97	10,014	432	4,326	84	841	x	x	
09/29/97	10,451	467	4,875	136	1,421	x	x	
09/30/97	11,310	289	3,270	50	566	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Sept Total	314,468	13,949	145,924	2,114	22,258	0	0	
Sept Daily Avg.	10,482	465	4,864	70	742	0	0	

James River Corp. Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
09/01/97	10,415	519	5,402	54	562	x	x	
09/02/97	10,434	483	5,040	88	918	x	x	
09/03/97	10,836	467	5,063	32	347	x	x	
09/04/97	9,667	296	2,857	84	812	x	x	
09/05/97	11,284	521	5,873	104	1,174	x	x	
09/06/97	9,456	512	4,837	80	756	x	x	
09/07/97	8,891	487	4,331	62	551	x	x	
09/08/97	11,471	417	4,788	54	619	x	x	
09/09/97	10,727	440	4,719	58	622	x	x	
09/10/97	8,892	477	4,238	72	640	x	x	
09/11/97	11,528	520	5,992	52	599	x	x	
09/12/97	10,840	420	4,557	26	282	x	x	
09/13/97	9,852	446	4,393	54	532	x	x	
09/14/97	10,149	480	4,875	70	710	x	x	
09/15/97	11,482	461	5,292	80	919	x	x	
09/16/97	10,371	458	4,749	82	850	x	x	
09/17/97	11,847	483	5,727	170	2,014	x	x	
09/18/97	11,724	405	4,753	62	727	x	x	
09/19/97	11,276	446	5,028	54	609	x	x	
09/20/97	10,687	399	4,264	72	769	x	x	
09/21/97	10,089	423	4,271	58	585	x	x	
09/22/97	10,611	473	5,022	62	658	x	x	
09/23/97	11,056	521	5,755	56	619	x	x	
09/24/97	9,148	515	4,707	52	476	x	x	
09/25/97	9,593	588	5,641	52	499	x	x	
09/26/97	10,747	575	6,174	86	924	x	x	
09/27/97	9,620	531	5,108	68	654	x	x	
09/28/97	10,014	432	4,326	84	841	x	x	
09/29/97	10,451	467	4,875	136	1,421	x	x	
09/30/97	11,310	289	3,270	50	566	x	x	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Sept Total	314,468	13,949	145,924	2,114	22,258	0	0	
Sept Daily Avg.	10,482	465	4,864	70	742	0	0	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Jan Monthly Total	299,167	15,090	145,282	3,034	28,877	x	x	
Feb Monthly Total	291,278	11,122	114,603	2,560	26,511	x	x	
Mar Monthly Total	323,300	12,358	124,156	2,490	25,906	x	x	
Apr Monthly Total	275,794	13,929	127,650	2,868	26,732	x	x	
May Monthly Total	286,110	14,732	135,899	2,956	27,380	x	x	
Jun Monthly Total	300,870	8,072	79,423	2,178	23,207	x	x	
Jul Monthly Total	313,140	12,844	128,733	2,760	28,483	x	x	
Aug Monthly Total	303,665	14,224	138,690	3,068	30,848	x	x	
Sep Monthly Total	314,468	13,949	145,924	2,114	22,258	x	x	
Oct Monthly Total								
Nov Monthly Total								
Dec Monthly Total								
YTD Total	2,707,792	116,319	1,140,360	24,028	240,202	x	x	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Jan Daily Avg.	9,651	487	4,687	98	932	x	x	
Feb Daily Avg.	10,403	397	4,093	91	947	x	x	
Mar Daily Avg.	10,429	399	4,005	80	836	x	x	
Apr Daily Avg.	9,193	464	4,255	96	891	x	x	
May Daily Avg.	9,229	475	4,384	95	883	x	x	
Jun Daily Avg.	10,029	475	2,647	99	774	x	x	
Jul Daily Avg.	10,101	414	4,153	89	919	x	x	
Aug Daily Avg.	9,796	459	4,474	99	995	x	x	
Sep Daily Avg.	10,482	465	4,864	70	742	x	x	
Oct Daily Avg.								
Nov Daily Avg.								
Dec Daily Avg.								
YTD Daily Avg.	9,919	383	3,751	79	790	x	x	

James River Corp. Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
10/01/97	11,088	369	4,091	54	599	x	x	
10/02/97	9,900	593	5,866	46	455	x	x	
10/03/97	10,289	593	6,096	70	720	x	x	
10/04/97	11,142	566	6,305	84	936	x	x	
10/05/97	9,566	150	1,435	80	765	x	x	
10/06/97	10,178	496	5,046	56	570	x	x	
10/07/97	11,385	488	5,559	52	592	x	x	
10/08/97	10,690	419	4,474	44	470	x	x	
10/09/97	12,260	455	5,581	70	858	x	x	
10/10/97	12,341	446	5,507	68	839	x	x	
10/11/97	11,022	475	5,233	76	838	x	x	
10/12/97	11,374	398	4,530	70	796	x	x	
10/13/97	11,155	426	4,756	44	491	x	x	
10/14/97	10,885	446	4,849	68	740	x	x	
10/15/97	10,931	430	4,702	60	656	x	x	
10/16/97	10,853	386	4,188	64	695	x	x	
10/17/97	9,564	455	4,347	88	842	x	x	
10/18/97	10,195	513	5,230	50	510	x	x	
10/19/97	10,701	573	6,132	50	535	x	x	
10/20/97	14,187	451	6,400	76	1,078	x	x	
10/21/97	10,532	387	4,076	84	885	x	x	
10/22/97	11,347	407	4,621	80	908	x	x	
10/23/97	10,754	289	3,105	42	452	x	x	
10/24/97	9,433	266	2,504	32	302	x	x	
10/25/97	10,241	273	2,800	42	430	x	x	
10/26/97	10,434	269	2,809	46	480	x	x	
10/27/97	11,082	254	2,818	70	776	x	x	
10/28/97	11,107	314	3,486	72	800	x	x	
10/29/97	10,363	191	1,982	54	560	x	x	
10/30/97	9,500	203	1,931	34	323	x	x	
10/31/97	11,131	229	2,550	40	445	x	x	
JAMES RIVER	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Oct Total	335,630	12,209	133,009	1,866	20,345	0	0	
Oct Daily Avg.	10,827	394	4,291	60	656	0	0	

James River Corp. Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
11/01/97	9,310	205	1,906	46	428	x	x	
11/02/97	8,910	281	2,503	58	517	x	x	
11/03/97	9,959	344	3,428	118	1,175	x	x	
11/04/97	8,110	256	2,074	62	503	x	x	
11/05/97	10,012	175	1,750	44	441	x	x	
11/06/97	9,220	207	1,909	64	590	x	x	
11/07/97	10,576	237	2,503	72	761	x	x	
11/08/97	9,763	203	1,984	70	683	x	x	
11/09/97	8,301	227	1,886	70	581	x	x	
11/10/97	8,880	276	2,454	60	533	x	x	
11/11/97	8,605	268	2,304	46	396	x	x	
11/12/97	8,544	266	2,275	48	410	x	x	
11/13/97	9,220	285	2,624	68	627	x	x	
11/14/97	8,990	254	2,286	56	503	x	x	
11/15/97	8,091	251	2,027	50	405	x	x	
11/16/97	8,704	266	2,311	92	801	x	x	
11/17/97	8,710	326	2,842	114	993	x	x	
11/18/97	10,460	263	2,746	66	690	x	x	
11/19/97	9,023	182	1,638	64	577	x	x	
11/20/97	8,473	227	1,922	40	339	x	x	
11/21/97	8,108	252	2,046	68	551	x	x	
11/22/97	9,458	225	2,128	60	567	x	x	
11/23/97	8,572	245	2,102	70	600	x	x	
11/24/97	9,392	187	1,754	70	657	x	x	
11/25/97	8,806	282	2,483	56	493	x	x	
11/26/97	7,437	233	1,735	76	565	x	x	
11/27/97	8,862	262	2,323	66	585	x	x	
11/28/97	10,117	283	2,861	50	506	x	x	
11/29/97	8,781	304	2,667	78	685	x	x	
11/30/97	8,082	260	2,103	68	550	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Nov Total	269,476	7,530	67,574	1,970	17,714	0	0	
Nov Daily Avg.	8,983	251	2,252	66	590	0	0	

James River Corp. Billing								
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
12/01/97	8,853	291	2,576	54	478	x	x	
12/02/97	9,265	324	3,005	78	723	x	x	
12/03/97	9,770	258	2,521	76	743	x	x	
12/04/97	9,850	304	2,992	56	552	x	x	
12/05/97	10,600	271	2,870	104	1,102	x	x	
12/06/97	8,131	283	2,299	64	520	x	x	
12/07/97	8,334	245	2,038	66	550	x	x	
12/08/97	7,956	333	2,646	138	1,098	x	x	
12/09/97	8,350	389	3,244	56	468	x	x	
12/10/97	9,876	468	4,622	110	1,086	x	x	
12/11/97	9,314	451	4,202	42	391	x	x	
12/12/97	8,754	531	4,648	54	473	x	x	
12/13/97	9,752	544	5,303	64	624	x	x	
12/14/97	8,351	482	4,021	58	484	x	x	
12/15/97	9,400	578	5,429	78	733	x	x	
12/16/97	8,792	495	4,352	58	510	x	x	
12/17/97	9,190	440	4,039	48	441	x	x	
12/18/97	9,525	477	4,543	60	572	x	x	
12/19/97	9,040	434	3,922	58	524	x	x	
12/20/97	9,056	480	4,350	44	398	x	x	
12/21/97	9,033	473	4,275	48	434	x	x	
12/22/97	9,210	529	4,870	70	645	x	x	
12/23/97	9,127	479	4,367	40	365	x	x	
12/24/97	8,122	511	4,151	164	1,332	x	x	
12/25/97	5,570	150	836	48	267	x	x	
12/26/97	8,800	260	2,284	34	299	x	x	
12/27/97	8,440	464	3,912	60	506	x	x	
12/28/97	9,210	452	4,158	54	497	x	x	
12/29/97	8,972	538	4,825	36	323	x	x	
12/30/97	11,270	515	5,798	56	631	x	x	
12/31/97	8,552	418	3,576	52	445	x	x	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	NH3, mg/L	NH3, kg/d	COMMENTS
Dec Total	278,465	12,861	116,674	2,028	18,215	0	0	
Dec Daily Avg.	8,983	415	3,764	65	588	0	0	

1998

		James River Corp. Billing				
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
01/01/98	8,583	432	3,708	38	326	
01/02/98	9,554	452	4,321	52	497	
01/03/98	10,540	537	5,664	84	885	
01/04/98	8,827	515	4,545	58	512	
01/05/98	9,460	492	4,651	62	587	
01/06/98	8,060	497	4,002	54	435	
01/07/98	8,452	552	4,666	82	693	
01/08/98	9,057	493	4,463	36	326	
01/09/98	8,563	513	4,393	64	548	
01/10/98	9,984	459	4,583	36	359	
01/11/98	8,717	486	4,236	36	314	
01/12/98	8,975	508	4,560	109	978	
01/13/98	8,292	483	4,008	54	448	
01/14/98	8,152	528	4,307	58	473	
01/15/98	8,515	500	4,260	60	511	
01/16/98	7,988	459	3,664	60	479	
01/17/98	8,505	514	4,373	60	510	
01/18/98	8,367	520	4,349	78	653	
01/19/98	8,116	633	5,137	48	390	
01/20/98	9,629	480	4,626	52	501	
01/21/98	7,996	418	3,343	62	496	
01/22/98	9,772	339	3,316	68	664	
01/23/98	9,493	533	5,062	52	494	
01/24/98	8,699	554	4,818	50	435	
01/25/98	7,385	468	3,456	44	325	
01/26/98	8,055	473	3,812	50	403	
01/27/98	10,031	489	4,905	204	2,046	
01/28/98	8,709	305	2,655	702	6,114	
01/29/98	7,887	398	3,138	54	426	
01/30/98	9,800	380	3,723	58	568	
01/31/98	8,705	533	4,639	74	644	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
JAN Monthly Total	272,868	14,944	131,382	2,599	23,040	
JAN Daily Avg.	8,802	482	4,238	84	743	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	272,868	14,944	131,382	2,599	23,040	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	748	41	360	7	63	

				James Rivers Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
01/01/98	2.268	432	8,170	38	719	30	567	8	151	
01/02/98	2.524	452	9,521	52	1,095	44	926	8	168	
01/03/98	2.785	537	12,480	84	1,951	48	1,115	36	836	
01/04/98	2.332	515	10,014	58	1,128	32	622	26	506	
01/05/98	2.499	492	10,248	62	1,292	46	959	16	334	
01/06/98	2.129	497	8,818	54	959	30	533	24	426	
01/07/98	2.233	552	10,280	82	1,527	46	857	36	670	
01/08/98	2.393	493	9,834	36	718	18	359	18	359	
01/09/98	2.262	513	9,679	64	1,208	34	642	30	566	
01/10/98	2.638	459	10,098	36	792	18	396	18	396	
01/11/98	2.303	486	9,335	36	691	20	384	16	307	
01/12/98	2.371	508	10,049	109	2,156	79	1,562	30	593	
01/13/98	2.191	483	8,832	54	987	36	658	18	329	
01/14/98	2.154	528	9,491	58	1,042	40	718	18	323	
01/15/98	2.250	500	9,386	60	1,126	48	901	12	225	
01/16/98	2.110	459	8,072	60	1,056	38	669	22	387	
01/17/98	2.247	514	9,635	60	1,124	42	787	18	337	
01/18/98	2.211	520	9,582	78	1,438	76	1,401	2	37	
01/19/98	2.144	633	11,320	48	858	38	680	10	179	
01/20/98	2.544	480	10,192	52	1,103	42	891	10	212	
01/21/98	2.113	418	7,367	62	1,092	28	493	34	599	
01/22/98	2.582	339	7,307	68	1,464	50	1,077	18	388	
01/23/98	2.508	533	11,154	52	1,088	44	920	8	167	
01/24/98	2.298	554	10,617	50	958	42	805	8	153	
01/25/98	1.951	468	7,615	44	716	38	618	6	98	
01/26/98	2.128	473	8,400	50	887	46	816	4	71	
01/27/98	2.650	489	10,808	204	4,509	172	3,802	32	707	
01/28/98	2.301	305	5,851	702	13,471	570	10,938	132	2,533	
01/29/98	2.084	398	6,915	54	938	44	765	10	174	
01/30/98	2.589	380	8,203	58	1,252	48	1,036	10	216	
01/31/98	2.300	533	10,221	74	1,419	48	921	26	499	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JAN Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
JAN Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total										
Mar Monthly Total										
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
YTD Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.										
Mar Daily Avg.										
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min										
Mar Monthly Min										
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max										
Mar Monthly Max										
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%										
Mar Monthly 75%										
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
NOTE:	min, max, 75% values are selected per specific parameters not per day									

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
02/01/98	6,858	629	4,310	64	439	
02/02/98	9,158	528	4,832	74	678	
02/03/98	10,303	469	4,830	78	804	
02/04/98	8,322	500	4,160	290	2,413	
02/05/98	8,295	602	4,989	51	423	
02/06/98	9,469	563	5,326	41	388	
02/07/98	8,211	533	4,372	55	452	
02/08/98	8,475	555	4,704	46	390	
02/09/98	8,284	566	4,685	60	497	
02/10/98	8,971	590	5,288	74	664	
02/11/98	7,800	599	4,668	62	484	
02/12/98	8,388	150	1,258	116	973	
02/13/98	7,444	550	4,092	50	372	
02/14/98	8,327	672	5,596	56	466	
02/15/98	8,206	726	5,958	56	460	
02/16/98	7,418	662	4,907	54	401	
02/17/98	8,560	633	5,418	94	805	
02/18/98	10,180	550	5,596	90	916	
02/19/98	9,072	497	4,504	56	508	
02/20/98	9,575	475	4,546	38	364	
02/21/98	10,910	406	4,431	39	425	
02/22/98	9,640	410	3,955	39	376	
02/23/98	9,318	426	3,973	30	280	
02/24/98	9,490	500	4,740	43	408	
02/25/98	6,991	432	3,020	30	210	
02/26/98	8,630	409	3,528	39	337	
02/27/98	8,574	479	4,109	76	652	
02/28/98	9,617	540	5,190	36	346	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Feb Total	244,486	14,645	126,986	1,837	15,928	
Feb Daily Avg.	8,732	523	4,535	66	569	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	517,354	29,589	258,368	4,436	38,968	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	8,769	502	4,379	75	660	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
02/01/98	1.812	629	9,497	64	967	48	725	16	242	
02/02/98	2.420	528	10,647	74	1,493	64	1,291	10	202	
02/03/98	2.722	469	10,642	78	1,771	50	1,135	28	636	
02/04/98	2.199	500	9,166	290	5,318	220	4,034	70	1,284	
02/05/98	2.192	602	10,994	51	932	39	713	12	219	
02/06/98	2.502	563	11,736	41	855	30	626	11	230	
02/07/98	2.169	533	9,634	55	995	43	778	12	217	
02/08/98	2.239	555	10,364	46	859	34	635	12	224	
02/09/98	2.189	566	10,322	60	1,095	38	694	22	402	
02/10/98	2.370	590	11,653	74	1,463	56	1,107	18	356	
02/11/98	2.061	599	10,286	62	1,066	50	859	12	206	
02/12/98	2.216	150	2,772	116	2,144	86	1,589	30	554	
02/13/98	1.967	550	9,017	50	820	28	459	22	361	
02/14/98	2.200	672	12,330	56	1,027	30	550	26	477	
02/15/98	2.168	726	13,127	56	1,013	42	759	14	253	
02/16/98	1.960	662	10,812	54	883	44	719	10	163	
02/17/98	2.262	633	11,939	94	1,773	78	1,471	16	302	
02/18/98	2.690	550	12,331	90	2,019	72	1,615	18	404	
02/19/98	2.397	497	9,925	56	1,119	52	1,039	4	80	
02/20/98	2.530	475	10,016	38	802	20	422	18	380	
02/21/98	2.882	406	9,763	39	938	22	529	17	409	
02/22/98	2.547	410	8,714	39	828	27	574	12	255	
02/23/98	2.462	426	8,754	30	616	27	554	3	62	
02/24/98	2.507	500	10,445	43	899	39	816	4	84	
02/25/98	1.847	432	6,655	30	462	23	354	7	108	
02/26/98	2.280	409	7,773	39	742	34	647	5	95	
02/27/98	2.265	479	9,054	76	1,436	60	1,134	16	302	
02/28/98	2.541	540	11,435	36	763	25	530	11	233	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
FEB Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
FEB Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total										
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	68.342	14,794	284,648	2,218	42,932	1,658	32,089	560	10,843	
YTD Monthly Total	136.685	29,589	569,296	4,436	85,863	3,316	64,178	1,120	21,686	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.										
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.316	503	9,666	75	1,446	56	1,081	19	365	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min										
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	1.812	150	2,772	30	462	18	354	2	37	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2 882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max										
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	2 882	726	13,127	702	13,471	570	10,938	132	2,533	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%										
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2 504	573	10,880	72	1,421	52	1,071	24	473	
NOTE: min, max, 75% values are selected per specific parameters not per day										

		Fort James Corp. Billing				
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
03/01/98	8,266	489	4,042	35	289	
03/02/98	8,230	603	4,963	41	337	
03/03/98	7,717	594	4,584	71	548	
03/04/98	8,090	470	3,801	42	340	
03/05/98	8,110	504	4,087	44	357	
03/06/98	8,389	516	4,329	18	151	
03/07/98	8,902	563	5,007	38	338	
03/08/98	8,391	551	4,619	42	352	
03/09/98	7,623	534	4,071	56	427	
03/10/98	7,326	728	5,330	46	337	
03/11/98	8,665	629	5,446	48	416	
03/12/98	8,335	623	5,189	38	317	
03/13/98	7,473	603	4,506	28	209	
03/14/98	9,031	604	5,455	32	289	
03/15/98	8,282	549	4,547	38	315	
03/16/98	7,672	537	4,120	58	445	
03/17/98	9,490	621	5,893	30	285	
03/18/98	8,354	557	4,653	32	267	
03/19/98	7,926	701	5,556	38	301	
03/20/98	8,951	597	5,344	48	430	
03/21/98	7,316	659	4,821	48	351	
03/22/98	6,977	755	5,268	34	237	
03/23/98	8,770	633	5,551	40	351	
03/24/98	7,838	620	4,860	62	486	
03/25/98	10,412	650	6,768	70	729	
03/26/98	8,057	713	5,745	56	451	
03/27/98	8,482	620	5,255	54	458	
03/28/98	7,828	555	4,345	60	470	
03/29/98	7,048	548	3,859	80	564	
03/30/98	8,509	663	5,641	126	1,072	
03/31/98	6,053	536	3,241	74	448	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
MAR Monthly Total	252,513	18,521	150,895	1,527	12,367	
MAR Daily Avg.	8,146	597	4,868	49	399	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	769,867	48,110	409,263	5,963	51,335	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	2,109	132	1,121	16	141	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
03/01/98	2.184	489	8,906	35	637	23	419	12	219	
03/02/98	2.174	603	10,935	41	744	25	453	16	290	
03/03/98	2.039	594	10,100	71	1,207	38	646	33	561	
03/04/98	2.137	470	8,375	42	749	13	232	29	517	
03/05/98	2.143	504	9,006	44	786	40	715	4	71	
03/06/98	2.216	516	9,538	18	333	16	296	2	37	
03/07/98	2.352	562	11,024	38	745	26	510	12	235	
03/08/98	2.217	551	10,178	42	777	40	740	2	37	
03/09/98	2.014	534	8,969	56	941	32	537	24	403	
03/10/98	1.936	728	11,744	46	743	30	484	16	258	
03/11/98	2.289	629	12,000	48	916	30	573	18	344	
03/12/98	2.202	623	11,433	38	698	8	147	30	551	
03/13/98	1.974	603	9,929	28	461	22	362	6	99	
03/14/98	2.386	605	12,039	32	637	30	597	2	40	
03/15/98	2.188	549	10,019	38	693	24	438	14	255	
03/16/98	2.027	537	9,078	58	980	34	575	24	406	
03/17/98	2.507	621	12,985	30	627	24	502	6	125	
03/18/98	2.207	557	10,253	32	589	18	331	14	258	
03/19/98	2 094	701	12,243	38	664	28	489	10	175	
03/20/98	2.365	597	11,775	48	947	38	749	10	197	
03/21/98	1.933	659	10,623	48	774	34	548	14	226	
03/22/98	1.843	755	11,607	34	523	24	369	10	154	
03/23/98	2.317	633	12,232	40	773	30	580	10	193	
03/24/98	2.071	620	10,708	62	1,071	32	553	30	518	
03/25/98	2.751	650	14,912	70	1,606	44	1,009	26	596	
03/26/98	2.129	713	12,658	56	994	32	568	24	426	
03/27/98	2.241	620	11,578	54	1,009	40	748	14	262	
03/28/98	2.068	555	9,573	60	1,035	40	690	20	345	
03/29/98	1 862	548	8,503	80	1,242	50	776	30	466	
03/30/98	2.248	663	12,431	126	2,362	90	1,687	36	675	
03/31/98	1.599	536	7,142	74	987	58	774	16	213	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
MAR Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
MAR Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total										
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	67.800	16,037	300,597	1,988	37,704	1,443	27,425	545	10,279	
YTD Monthly Total	203.399	48,110	901,790	5,963	113,113	4,329	82,275	1,634	30,838	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.										
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.262	534	10,019	66	1,257	48	915	18	342	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min										
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	1.599	150	2,772	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2 882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max										
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	2.882	755	14,912	702	13,471	570	10,938	132	2,533	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %										
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.503	611	11,496	70	1,399	51	1,028	25	459	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
04/01/98	12,363	448	5,540	82	1,014	
04/02/98	10,184	392	3,991	60	611	
04/03/98	8,207	491	4,029	54	443	
04/04/98	8,272	548	4,529	60	496	
04/05/98	10,171	546	5,553	54	549	
04/06/98	7,889	521	4,106	66	521	
04/07/98	8,529	150	1,279	66	563	
04/08/98	8,242	462	3,808	114	940	
04/09/98	8,651	564	4,879	200	1,730	
04/10/98	6,738	539	3,628	74	499	
04/11/98	7,015	521	3,651	48	337	
04/12/98	8,204	506	4,147	84	689	
04/13/98	7,506	528	3,963	68	510	
04/14/98	7,693	386	2,966	68	523	
04/15/98	8,185	482	3,945	80	655	
04/16/98	7,177	747	5,361	80	574	
04/17/98	7,880	828	6,525	152	1,198	
04/18/98	8,191	711	5,824	346	2,834	
04/19/98	10,185	818	8,326	546	5,562	
04/20/98	9,106	554	5,040	78	710	
04/21/98	8,235	666	5,485	90	741	
04/22/98	7,630	741	5,654	60	458	
04/23/98	8,083	587	4,741	64	517	
04/24/98	7,678	672	5,160	52	399	
04/25/98	7,924	672	5,325	46	365	
04/26/98	7,325	620	4,538	58	425	
04/27/98	8,302	633	5,255	74	614	
04/28/98	9,355	651	6,090	330	3,087	
04/29/98	1,778	663	1,179	1,012	1,799	
04/30/98	6,527	218	1,425	102	666	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
APR Monthly Total	243,225	16,860	135,942	4,268	30,030	
APR Daily Avg.	8,108	562	4,531	142	1,001	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,013,092	64,970	545,204	10,231	81,365	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	2,776	178	1,494	28	223	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
04/01/98	3.266	448	12,208	82	2,234	60	1,634	22	599	
04/02/98	2.691	392	8,794	60	1,346	32	718	28	628	
04/03/98	2.168	491	8,877	54	977	40	723	14	253	
04/04/98	2.185	548	9,979	60	1,094	44	802	16	292	
04/05/98	2.687	546	12,236	54	1,210	38	852	16	359	
04/06/98	2.084	521	9,048	66	1,147	48	834	18	313	
04/07/98	2.253	150	2,819	66	1,240	48	902	18	338	
04/08/98	2.178	462	8,390	114	2,070	88	1,598	26	472	
04/09/98	2.286	564	10,751	200	3,812	176	3,355	24	457	
04/10/98	1.780	539	7,995	74	1,099	50	742	24	356	
04/11/98	1.853	521	8,045	48	742	30	464	18	278	
04/12/98	2.167	506	9,138	84	1,518	60	1,085	24	434	
04/13/98	1.983	528	8,733	68	1,125	42	695	26	430	
04/14/98	2.032	386	6,535	68	1,153	46	780	22	373	
04/15/98	2.162	482	8,693	80	1,443	54	974	26	469	
04/16/98	1.896	747	11,813	80	1,265	46	727	34	538	
04/17/98	2.082	828	14,377	152	2,639	106	1,840	46	799	
04/18/98	2.164	711	12,832	346	6,245	322	5,812	24	433	
04/19/98	2.691	818	18,346	546	12,256	470	10,537	77	1,719	
04/20/98	2.406	554	11,106	78	1,565	36	722	42	843	
04/21/98	2.176	666	12,085	90	1,633	38	690	52	944	
04/22/98	2.016	741	12,458	60	1,009	30	504	30	504	
04/23/98	2.136	587	10,446	64	1,140	40	712	24	427	
04/24/98	2.029	672	11,369	52	880	36	609	16	271	
04/25/98	2.094	672	11,733	46	803	26	454	20	349	
04/26/98	1.935	620	9,999	58	936	32	516	26	420	
04/27/98	2.193	633	11,579	74	1,354	30	549	44	805	
04/28/98	2.472	651	13,419	330	6,802	210	4,329	120	2,474	
04/29/98	0.470	663	2,597	1,012	3,965	724	2,836	288	1,128	
04/30/98	1.724	218	3,139	102	1,467	48	690	54	777	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
APR Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
APR Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total										
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	66.915	16,243	300,332	2,558	44,820	1,845	32,490	713	12,330	
YTD Monthly Total	267.659	64,970	1,201,327	10,231	179,282	7,379	129,962	2,853	49,320	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.										
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.232	541	10,010	85	1,494	62	1,084	24	410	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min										
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max										
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.266	828	18,346	1,012	13,471	724	10,938	288	2,533	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%										
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.503	639	11,920	80	1,572	55	1,203	30	562	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
05/01/98	5,070	318	1,610	60	304	
05/02/98	7,700	237	1,825	30	231	
05/03/98	11,869	161	1,914	86	1,021	
05/04/98	13,085	165	2,159	32	419	
05/05/98	11,466	239	2,743	46	527	
05/06/98	8,326	339	2,819	66	550	
05/07/98	7,646	453	3,464	70	535	
05/08/98	7,163	573	4,104	60	430	
05/09/98	7,378	606	4,471	52	384	
05/10/98	6,929	630	4,365	70	485	
05/11/98	7,489	672	5,033	66	494	
05/12/98	7,583	614	4,652	60	455	
05/13/98	7,556	855	6,460	64	484	
05/14/98	6,733	500	3,363	72	485	
05/15/98	9,054	500	4,522	236	2,137	
05/16/98	13,427	389	5,221	90	1,208	
05/17/98	10,883	313	3,408	46	501	
05/18/98	11,641	344	3,999	68	792	
05/19/98	9,419	409	3,850	80	754	
05/20/98	8,874	482	4,273	346	3,070	
05/21/98	9,163	438	4,017	96	880	
05/22/98	9,984	425	4,238	62	619	
05/23/98	9,008	472	4,253	205	1,847	
05/24/98	7,417	462	3,429	91	675	
05/25/98	7,086	575	4,071	100	709	
05/26/98	7,640	470	3,587	116	886	
05/27/98	7,768	432	3,356	80	621	
05/28/98	7,700	392	3,015	102	785	
05/29/98	7,858	398	3,124	224	1,760	
05/30/98	7,286	381	2,776	114	831	
05/31/98	7,639	315	2,406	104	794	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
MAY Monthly Total	267,840	13,554	112,528	2,994	25,671	
MAY Daily Avg.	8,640	437	3,630	97	828	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,280,932	78,524	657,733	13,225	107,036	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	3,509	215	1,802	36	293	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
05/01/98	1.339	318	3,548	60	670	36	402	24	268	
05/02/98	2.034	237	4,021	30	509	26	441	4	68	
05/03/98	3.136	161	4,217	86	2,249	80	2,092	6	157	
05/04/98	3.457	165	4,757	32	923	16	461	16	461	
05/05/98	3.029	239	6,045	46	1,162	32	808	14	354	
05/06/98	2.200	339	6,212	66	1,211	38	697	28	514	
05/07/98	2 020	453	7,632	70	1,179	42	708	28	472	
05/08/98	1.892	573	9,044	60	947	42	663	18	284	
05/09/98	1.949	606	9,852	52	845	36	585	16	260	
05/10/98	1.831	630	9,619	70	1,069	54	824	16	244	
05/11/98	1.979	672	11,089	66	1,089	36	594	30	495	
05/12/98	2.003	614	10,251	60	1,003	44	735	16	267	
05/13/98	1.996	855	14,235	64	1,066	40	666	24	400	
05/14/98	1.779	500	7,410	72	1,068	50	742	22	326	
05/15/98	2.392	500	9,965	236	4,708	206	4,110	30	598	
05/16/98	3 547	389	11,505	90	2,663	54	1,598	36	1,065	
05/17/98	2.875	313	7,509	46	1,103	24	576	22	528	
05/18/98	3.076	344	8,811	68	1,744	40	1,026	28	718	
05/19/98	2.488	409	8,483	80	1,660	62	1,287	18	374	
05/20/98	2 345	482	9,415	346	6,765	302	5,905	44	860	
05/21/98	2.421	438	8,851	96	1,938	62	1,252	34	686	
05/22/98	2.638	425	9,339	62	1,364	54	1,188	8	176	
05/23/98	2.380	472	9,371	205	4,069	125	2,481	80	1,588	
05/24/98	1.960	462	7,557	91	1,487	64	1,046	27	441	
05/25/98	1.872	575	8,970	100	1,561	72	1,124	28	437	
05/26/98	2 018	470	7,904	116	1,953	76	1,279	40	673	
05/27/98	2 052	432	7,394	80	1,369	60	1,027	20	342	
05/28/98	2.034	392	6,642	102	1,731	61	1,035	41	696	
05/29/98	2 076	398	6,883	224	3,878	62	1,074	162	2,805	
05/30/98	1.925	381	6,117	114	1,830	63	1,011	51	819	
05/31/98	2.018	315	5,302	104	1,751	64	1,077	40	673	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
MAY Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
MAY Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total										
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	67.684	15,705	289,855	2,645	47,169	1,880	33,695	765	13,474	
YTD Monthly Total	338.422	78,525	1,449,275	13,225	235,847	9,402	168,476	3,824	67,370	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.										
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.242	520	9,608	88	1,560	62	1,115	25	445	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min										
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max										
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	855	18,346	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%										
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.503	631	11,887	99	1,884	60	1,220	35	680	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
06/01/98	9,109	260	2,364	74	674	
06/02/98	8,566	384	3,289	98	839	
06/03/98	8,672	359	3,115	84	728	
06/04/98	7,200	391	2,813	66	475	
06/05/98	8,262	459	3,792	78	644	
06/06/98	6,931	507	3,514	74	513	
06/07/98	7,314	650	4,750	70	512	
06/08/98	7,681	524	4,021	80	614	
06/09/98	8,750	444	3,882	70	613	
06/10/98	8,816	417	3,680	86	758	
06/11/98	8,574	401	3,434	46	394	
06/12/98	7,484	468	3,503	64	479	
06/13/98	8,700	449	3,902	110	957	
06/14/98	7,838	573	4,491	66	517	
06/15/98	9,800	369	3,613	64	627	
06/16/98	8,886	426	3,782	62	551	
06/17/98	8,634	337	2,911	76	656	
06/18/98	7,619	429	3,271	70	533	
06/19/98	8,620	483	4,160	72	621	
06/20/98	8,935	599	5,348	72	643	
06/21/98	8,021	478	3,832	56	449	
06/22/98	8,920	526	4,693	66	589	
06/23/98	9,010	506	4,555	58	523	
06/24/98	8,380	494	4,136	72	603	
06/25/98	10,040	486	4,879	88	884	
06/26/98	7,745	528	4,089	136	1,053	
06/27/98	9,440	434	4,092	78	736	
06/28/98	8,195	651	5,335	74	606	
06/29/98	8,815	524	4,618	106	934	
06/30/98	7,771	497	3,858	80	622	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
JUN MonthlyTotal	252,728	14,047	117,723	2,296	19,350	
JUN Daily Avg.	8,424	468	3,924	77	645	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,533,660	92,571	775,455	15,521	126,387	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	4,202	254	2,125	43	346	

				James Rivers Loadings						
DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
06/01/98	2.407	260	5,208	74	1,485	62	1,244	12	241	
06/02/98	2.263	384	7,248	98	1,850	44	830	54	1,019	
06/03/98	2.291	359	6,865	84	1,605	46	879	38	726	
06/04/98	1.902	391	6,199	66	1,047	46	730	20	317	
06/05/98	2.183	459	8,356	78	1,420	46	837	32	583	
06/06/98	1.831	507	7,743	74	1,130	54	825	20	305	
06/07/98	1.932	650	10,467	70	1,128	52	838	18	290	
06/08/98	2.029	524	8,860	80	1,354	48	812	32	542	
06/09/98	2.312	444	8,553	70	1,350	50	964	20	386	
06/10/98	2.329	417	8,108	86	1,671	62	1,204	24	466	
06/11/98	2.265	401	7,566	46	869	24	453	22	416	
06/12/98	1.977	468	7,718	64	1,055	38	627	26	429	
06/13/98	2.299	449	8,598	110	2,109	102	1,955	8	153	
06/14/98	2.071	573	9,896	66	1,140	42	725	24	414	
06/15/98	2.589	369	7,960	64	1,382	46	993	18	389	
06/16/98	2.348	426	8,334	62	1,214	48	940	14	274	
06/17/98	2.281	337	6,414	76	1,446	42	799	34	647	
06/18/98	2.013	429	7,208	70	1,175	50	839	20	336	
06/19/98	2.277	483	9,167	72	1,368	56	1,064	16	304	
06/20/98	2.361	599	11,783	72	1,418	62	1,221	10	197	
06/21/98	2.119	478	8,444	56	990	34	601	22	389	
06/22/98	2.357	526	10,341	66	1,297	48	943	18	354	
06/23/98	2.380	506	10,036	58	1,151	40	794	18	357	
06/24/98	2.214	494	9,112	72	1,329	46	849	26	480	
06/25/98	2.653	486	10,751	88	1,947	74	1,637	14	310	
06/26/98	2.046	528	9,011	136	2,321	112	1,911	24	410	
06/27/98	2.494	434	9,017	78	1,622	50	1,040	28	582	
06/28/98	2.165	651	11,755	74	1,336	50	903	24	433	
06/29/98	2.329	524	10,175	106	2,059	54	1,049	52	1,010	
06/30/98	2.053	497	8,501	80	1,370	32	548	48	822	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JUN Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
JUN Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total										
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	67.532	15,429	284,778	2,587	46,414	1,827	32,922	760	13,492	
YTD Monthly Total	405.193	92,572	1,708,669	15,521	278,484	10,962	197,533	4,560	80,951	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.										
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.239	512	9,448	86	1,537	61	1,091	25	446	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min										
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max										
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	855	18,346	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%										
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.491		11,691	94	1,807	59	1,193	33	641	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
07/01/98	8,092	446	3,605	104	842	
07/02/98	7,702	603	4,644	52	401	
07/03/98	6,999	547	3,829	64	448	
07/04/98	7,882	603	4,753	54	426	
07/05/98	11,322	495	5,604	86	974	
07/06/98	7,555	509	3,842	66	499	
07/07/98	7,870	548	4,309	62	488	
07/08/98	7,280	665	4,838	68	495	
07/09/98	8,602	657	5,652	140	1,204	
07/10/98	7,851	884	6,936	72	565	
07/11/98	9,818	555	5,449	72	707	
07/12/98	7,611	480	3,656	74	563	
07/13/98	8,237	507	4,176	56	461	
07/14/98	7,598	369	2,807	56	425	
07/15/98	8,098	353	2,858	44	356	
07/16/98	7,822	520	4,068	44	344	
07/17/98	6,920	645	4,463	106	734	
07/18/98	7,168	805	5,770	72	516	
07/19/98	5,985	746	4,462	66	395	
07/20/98	7,799	707	5,510	80	624	
07/21/98	7,092	831	5,893	106	752	
07/22/98	6,524	689	4,492	64	418	
07/23/98	6,824	674	4,596	90	614	
07/24/98	6,232	624	3,889	108	673	
07/25/98	7,353	729	5,360	106	779	
07/26/98	6,341	858	5,441	108	685	
07/27/98	6,568	677	4,443	88	578	
07/28/98	7,254	701	5,081	72	522	
07/29/98	6,319	750	4,739	84	531	
07/30/98	6,763	690	4,666	72	487	
07/31/98	6,901	559	3,858	72	497	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
JUL Monthly Total	232,382	19,421	143,690	2,408	18,002	
JUL Daily Avg.	7,496	626	4,635	78	581	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,766,042	111,993	919,146	17,929	144,389	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	4,838	307	2,518	49	396	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
07/01/98	2.138	446	7,943	104	1,854	58	1,034	46	820	
07/02/98	2.035	603	10,233	52	882	40	679	12	204	
07/03/98	1.849	547	8,438	64	987	40	617	24	370	
07/04/98	2.082	603	10,473	54	938	42	729	12	208	
07/05/98	2.991	495	12,349	86	2,145	64	1,597	22	549	
07/06/98	1.996	509	8,465	66	1,099	48	799	18	300	
07/07/98	2.079	548	9,494	62	1,075	48	832	14	243	
07/08/98	1.923	665	10,659	68	1,091	52	834	16	257	
07/09/98	2.273	657	12,453	140	2,654	110	2,085	30	569	
07/10/98	2.074	884	15,284	72	1,246	52	900	20	346	
07/11/98	2.594	555	12,006	72	1,558	40	865	32	692	
07/12/98	2.011	480	8,056	74	1,241	48	805	26	436	
07/13/98	2.176	507	9,202	56	1,016	44	799	12	218	
07/14/98	2.007	369	6,184	56	938	36	603	20	335	
07/15/98	2.139	353	6,297	44	785	18	321	26	464	
07/16/98	2.067	520	8,965	44	758	28	483	16	276	
07/17/98	1.828	645	9,835	106	1,616	70	1,067	36	549	
07/18/98	1.894	805	12,714	72	1,137	50	790	22	347	
07/19/98	1.581	746	9,831	66	870	44	580	22	290	
07/20/98	2.060	707	12,141	80	1,375	52	894	28	481	
07/21/98	1.874	831	12,986	106	1,656	76	1,188	30	469	
07/22/98	1.724	689	9,897	64	920	38	546	26	374	
07/23/98	1.803	674	10,127	90	1,353	60	902	30	451	
07/24/98	1.646	624	8,569	108	1,483	82	1,126	26	357	
07/25/98	1.943	729	11,811	106	1,717	72	1,167	34	551	
07/26/98	1.675	858	11,988	108	1,509	68	950	40	559	
07/27/98	1.735	677	9,790	88	1,274	36	521	52	753	
07/28/98	1.917	701	11,197	72	1,151	36	575	36	575	
07/29/98	1.669	750	10,443	84	1,170	50	696	34	473	
07/30/98	1.787	690	10,282	72	1,073	50	745	22	328	
07/31/98	1.823	559	8,500	72	1,095	50	760	22	335	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
JUL Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
JUL Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total										
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	66.655	15,999	289,326	2,561	45,450	1,795	32,003	767	13,447	
YTD Monthly Total	466.588	111,993	2,025,280	17,929	318,150	12,564	224,022	5,366	94,128	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	
Aug Daily Avg.										
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.202	528	9,557	85	1,500	59	1,057	25	443	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min	1.581	353	6,184	44	758	18	321	12	204	
Aug Monthly Min										
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max	2.991	884	15,284	140	2,654	110	2,085	52	820	
Aug Monthly Max										
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	884	18,346	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%	2.077	704	11,900	89	1,496	59	926	31	549	
Aug Monthly 75%										
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.479	648	11,893	94	1,730	60	1,167	33	614	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
08/01/98	7,220	510	3,682	66	477	
08/02/98	7,822	560	4,380	90	704	
08/03/98	6,794	716	4,861	80	544	
08/04/98	6,733	699	4,706	72	485	
08/05/98	8,417	536	4,511	66	556	
08/06/98	7,200	557	4,007	44	317	
08/07/98	6,810	608	4,137	56	381	
08/08/98	7,150	681	4,869	48	343	
08/09/98	7,464	828	6,180	62	463	
08/10/98	7,406	569	4,210	90	667	
08/11/98	6,368	641	4,079	80	509	
08/12/98	7,164	689	4,932	98	702	
08/13/98	6,419	636	4,082	118	757	
08/14/98	7,680	522	4,009	64	492	
08/15/98	7,490	744	5,573	58	434	
08/16/98	5,882	726	4,270	80	471	
08/17/98	7,451	665	4,951	84	626	
08/18/98	5,960	803	4,783	84	501	
08/19/98	8,130	872	7,085	90	732	
08/20/98	7,626	636	4,850	130	991	
08/21/98	6,667	552	3,680	148	987	
08/22/98	6,973	780	5,439	92	642	
08/23/98	7,426	737	5,469	94	698	
08/24/98	8,064	611	4,923	64	516	
08/25/98	12,659	509	6,437	54	684	
08/26/98	9,520	399	3,802	36	343	
08/27/98	10,760	377	4,059	136	1,463	
08/28/98	7,756	337	2,612	58	450	
08/29/98	7,410	375	2,779	54	400	
08/30/98	7,737	455	3,516	74	573	
08/31/98	7,719	569	4,388	68	525	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
AUG Monthly Total	235,877	18,894	141,263	2,438	18,430	
AUG Daily Avg.	7,609	609	4,557	79	595	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total	235,877	18,894	141,263	2,438	18,430	
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	2,001,919	130,887	1,060,409	20,367	162,818	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.	7,609	609	4,557	79	595	
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	5,485	359	2,905	56	446	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
08/01/98	1.908	510	8,113	66	1,050	50	795	16	255	
08/02/98	2.067	560	9,652	90	1,551	66	1,138	24	414	
08/03/98	1.795	716	10,711	80	1,198	48	719	32	479	
08/04/98	1.779	699	10,370	72	1,068	40	593	32	475	
08/05/98	2.224	536	9,939	66	1,224	44	816	22	408	
08/06/98	1.902	557	8,829	44	698	30	476	14	222	
08/07/98	1.799	608	9,116	56	840	46	690	10	150	
08/08/98	1 889	681	10,729	48	756	34	536	14	221	
08/09/98	1.972	828	13,618	62	1,020	48	789	14	230	
08/10/98	1.957	569	9,277	90	1,469	56	914	34	555	
08/11/98	1.682	641	8,987	80	1,123	56	786	24	337	
08/12/98	1.893	689	10,868	98	1,547	76	1,200	22	347	
08/13/98	1.696	636	8,995	118	1,669	86	1,216	32	453	
08/14/98	2 029	522	8,833	64	1,083	38	643	26	440	
08/15/98	1.979	744	12,279	58	957	26	429	32	528	
08/16/98	1.554	726	9,409	80	1,037	62	804	18	233	
08/17/98	1.969	665	10,910	84	1,379	58	952	26	427	
08/18/98	1.575	803	10,539	84	1,103	60	788	24	315	
08/19/98	2.148	872	15,612	90	1,612	64	1,146	26	466	
08/20/98	2.015	636	10,687	130	2,184	102	1,714	28	470	
08/21/98	1.761	552	8,109	148	2,174	108	1,587	40	588	
08/22/98	1.842	780	11,984	92	1,414	68	1,045	24	369	
08/23/98	1.962	737	12,059	94	1,538	70	1,145	24	393	
08/24/98	2.131	611	10,857	64	1,137	48	853	16	284	
08/25/98	3.345	509	14,198	54	1,506	42	1,172	12	335	
08/26/98	2.515	399	8,370	36	755	26	545	10	210	
08/27/98	2.843	377	8,938	136	3,224	92	2,181	44	1,043	
08/28/98	2.049	337	5,759	58	991	40	684	18	308	
08/29/98	1.958	375	6,123	54	882	42	686	12	196	
08/30/98	2.044	455	7,757	74	1,262	60	1,023	14	239	
08/31/98	2.039	569	9,678	68	1,157	36	612	32	544	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
AUG Monthly Total	62.319	18,894	311,304	2,438	40,608	1,722	28,676	716	11,932	
AUG Daily Avg.	2.010	609	10,042	79	1,310	56	925	23	385	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72 092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70 763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total	62.319	18,894	311,304	2,438	40,608	1,722	28,676	716	11,932	
Sep Monthly Total										
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	66.113	16,361	292,073	2,546	44,845	1,786	31,587	760	13,257	
YTD Monthly Total	528.907	130,888	2,336,584	20,367	358,758	14,286	252,699	6,082	106,059	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	
Aug Daily Avg.	2.010	609	10,042	79	1,310	56	925	23	385	
Sep Daily Avg.										
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.178	538	9,618	84	1,476	59	1,041	25	436	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min	1.581	353	6,184	44	758	18	321	12	204	
Aug Monthly Min	1.554	337	5,759	36	698	26	429	10	150	
Sep Monthly Min										
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max	2.991	884	15,284	140	2,654	110	2,085	52	820	
Aug Monthly Max	3.547	884	18,346	1,012	13,471	724	10,938	288	2,805	
Sep Monthly Max										
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	884	18,346	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%	2.077	704	11,900	89	1,496	59	926	31	549	
Aug Monthly 75%	2.047	707	10,862	90	1,522	65	1,141	30	468	
Sep Monthly 75%										
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.467	675	11,890	92	1,652	61	1,161	32	582	

NOTE: min, max, 75% values are selected per specific parameters not per day

		Fort James	Corp. Billing			
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
09/01/98	6,683	514	3,436	74	495	
09/02/98	6,781	650	4,404	58	393	
09/03/98	7,960	600	4,776	90	716	
09/04/98	7,430	603	4,480	56	416	
09/05/98	7,232	615	4,448	208	1,504	
09/06/98	7,282	587	4,271	56	408	
09/07/98	6,908	729	5,036	66	456	
09/08/98	7,159	522	3,740	90	644	
09/09/98	7,173	693	4,971	224	1,607	
09/10/98	7,345	776	5,696	82	602	
09/11/98	10,071	684	6,889	102	1,027	
09/12/98	7,464	714	5,329	88	657	
09/13/98	7,900	1,136	8,970	134	1,059	
09/14/98	7,488	610	4,568	90	674	
09/15/98	7,354	623	4,578	128	941	
09/16/98	8,278	624	5,165	62	513	
09/17/98	7,815	530	4,138	74	578	
09/18/98	6,811	494	3,366	64	436	
09/19/98	7,457	495	3,691	70	522	
09/20/98	7,444	493	3,671	128	953	
09/21/98	8,272	557	4,603	74	612	
09/22/98	6,191	573	3,547	64	396	
09/23/98	8,218	548	4,499	86	707	
09/24/98	7,830	480	3,758	98	767	
09/25/98	6,522	582	3,796	92	600	
09/26/98	7,936	588	4,666	88	698	
09/27/98	7,782	681	5,300	90	700	
09/28/98	7,694	687	5,286	90	692	
09/29/98	7,164	599	4,288	88	630	
09/30/98	6,975	657	4,583	84	586	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
SEP Monthly Total	224,619	18,640	139,950	2,798	20,992	
SEP Daily Avg.	7,487	621	4,665	93	700	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total	235,877	18,892	141,264	2,438	18,430	
Sep Monthly Total	224,619	18,640	139,950	2,798	20,992	
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	2,226,538	149,525	1,200,360	23,165	183,810	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.	7,609	609	4,557	79	595	
Sep Daily Avg.	7,487	621	4,665	93	700	
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	8,160	547	4,398	85	673	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
09/01/98	1.766	514	7,571	74	1,090	40	589	34	501	
09/02/98	1.792	650	9,704	58	867	40	598	18	269	
09/03/98	2.103	600	10,524	90	1,579	66	1,158	24	421	
09/04/98	1.963	603	9,872	56	917	54	884	2	33	
09/05/98	1.911	615	9,800	208	3,315	184	2,932	24	382	
09/06/98	1.924	587	9,411	56	899	54	866	2	32	
09/07/98	1.825	729	11,096	66	1,005	34	518	32	487	
09/08/98	1.891	522	8,240	90	1,420	60	946	30	473	
09/09/98	1.895	693	10,953	224	3,540	182	2,877	42	664	
09/10/98	1.941	776	12,551	82	1,327	44	712	38	615	
09/11/98	2.661	684	15,178	102	2,263	52	1,154	50	1,110	
09/12/98	1.972	714	11,743	88	1,447	46	757	42	691	
09/13/98	2.087	1,136	19,766	134	2,333	92	1,601	42	731	
09/14/98	1.978	610	10,065	90	1,485	58	957	32	528	
09/15/98	1.943	623	10,087	128	2,074	110	1,782	18	292	
09/16/98	2.187	624	11,382	62	1,131	42	766	20	365	
09/17/98	2.065	530	9,118	74	1,274	50	861	24	413	
09/18/98	1.799	494	7,417	64	960	54	810	10	150	
09/19/98	1.970	495	8,133	70	1,150	56	920	14	230	
09/20/98	1.967	493	8,088	128	2,099	94	1,542	34	558	
09/21/98	2.185	557	10,143	74	1,349	44	802	30	547	
09/22/98	1.636	573	7,817	64	873	40	546	24	327	
09/23/98	2.171	548	9,914	86	1,557	56	1,014	30	543	
09/24/98	2.069	480	8,281	98	1,691	76	1,311	22	380	
09/25/98	1.723	582	8,364	92	1,322	60	862	32	460	
09/26/98	2.097	588	10,282	88	1,539	62	1,084	26	455	
09/27/98	2.056	681	11,677	90	1,543	70	1,200	20	343	
09/28/98	2.033	687	11,647	90	1,526	60	1,017	30	509	
09/29/98	1.893	599	9,448	88	1,389	76	1,200	12	189	
09/30/98	1.843	657	10,097	84	1,291	72	1,107	12	184	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
SEP Monthly Total	59.344	18,640	308,369	2,798	46,254	2,028	33,373	770	12,881	
SEP Daily Avg.	1.978	621	10,279	93	1,542	68	1,112	26	429	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total	62.319	18,892	311,265	2,438	40,608	1,722	28,676	716	11,932	
Sep Monthly Total	59.344	18,640	308,369	2,798	46,254	2,028	33,373	770	12,881	
Oct Monthly Total										
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	65.361	16,614	293,879	2,574	45,001	1,813	31,786	761	13,216	
YTD Monthly Total	588.251	149,526	2,644,915	23,165	405,012	16,314	286,072	6,852	118,940	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	
Aug Daily Avg.	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Daily Avg.	1.978	621	10,279	93	1,542	68	1,112	26	429	
Oct Daily Avg.										
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.156	547	9,691	85	1,484	60	1,049	25	435	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min	1.581	353	6,184	44	758	18	321	12	204	
Aug Monthly Min	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Monthly Min	1.636	480	7,417	56	867	34	518	2	32	
Oct Monthly Min										
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	37	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max	2.991	884	15,284	140	2,654	110	2,085	52	820	
Aug Monthly Max	3.345	872	15,612	148	3,224	108	2,181	44	1,043	
Sep Monthly Max	2.661	1,136	19,766	224	3,540	184	2,932	50	1,110	
Oct Monthly Max										
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	1,136	19,766	1,012	13,471	724	10,938	288	2,805	
	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%	2.077	704	11,900	89	1,496	59	926	31	549	
Aug Monthly 75%	2.047	707	10,858	90	1,522	65	1,141	30	468	
Sep Monthly 75%	2.068	675	11,060	92	1,573	72	1,189	32	539	
Oct Monthly 75%										
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.455	675	11,887	92	1,575	64	1,189	32	549	
NOTE: min, max, 75% values are selected per specific parameters not per day										

Fort James Corp. Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
10/01/98	6,791	672	4,564	82	557	
10/02/98	6,854	722	4,945	80	548	
10/03/98	7,336	698	5,117	94	690	
10/04/98	7,779	569	4,422	94	731	
10/05/98	7,408	509	3,767	78	578	
10/06/98	7,579	442	3,348	104	788	
10/07/98	7,449	468	3,486	86	641	
10/08/98	7,671	431	3,308	74	568	
10/09/98	7,250	554	4,013	94	682	
10/10/98	7,449	767	5,710	88	656	
10/11/98	6,315	680	4,291	88	556	
10/12/98	7,750	615	4,766	74	574	
10/13/98	11,396	477	5,440	98	1,117	
10/14/98	7,761	467	3,623	74	574	
10/15/98	7,650	488	3,729	92	704	
10/16/98	7,136	644	4,592	66	471	
10/17/98	7,211	707	5,095	76	548	
10/18/98	6,864	620	4,252	62	426	
10/19/98	7,280	779	5,667	196	1,427	
10/20/98	7,307	765	5,590	80	585	
10/21/98	7,506	842	6,316	108	811	
10/22/98	6,995	758	5,299	114	797	
10/23/98	7,099	654	4,643	56	398	
10/24/98	7,336	724	5,311	98	719	
10/25/98	7,602	849	6,454	96	730	
10/26/98	6,674	786	5,246	90	601	
10/27/98	6,675	1,139	7,599	110	734	
10/28/98	7,336	714	5,238	96	704	
10/29/98	6,630	768	5,092	74	491	
10/30/98	7,351	836	6,142	70	515	
10/31/98	7,303	837	6,113	74	540	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
OCT Monthly Total	228,743	20,973	153,179	2,766	20,457	
OCT Daily Avg.	7,379	677	4,941	89	660	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total	235,877	18,892	141,264	2,438	18,430	
Sep Monthly Total	224,619	18,640	139,950	2,798	20,992	
Oct Monthly Total	228,743	20,973	153,179	2,766	20,457	
Nov Monthly Total						
Dec Monthly Total						
YTD Total	2,455,281	170,499	1,353,538	25,931	204,267	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.	7,609	609	4,557	79	595	
Sep Daily Avg.	7,487	621	4,665	93	700	
Oct Daily Avg.	7,379	677	4,941	89	660	
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	8,082	560	4,452	85	672	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
10/01/98	1.794	672	10,055	82	1,227	64	958	18	269	
10/02/98	1.811	722	10,896	80	1,208	54	816	26	393	
10/03/98	1.938	698	11,275	94	1,519	74	1,196	20	323	
10/04/98	2.055	569	9,744	94	1,611	78	1,337	16	274	
10/05/98	1.957	509	8,300	78	1,273	48	784	30	490	
10/06/98	2.002	442	7,377	104	1,737	78	1,303	26	434	
10/07/98	1.968	468	7,681	86	1,412	56	919	30	492	
10/08/98	2.027	431	7,289	74	1,251	38	642	36	608	
10/09/98	1.915	554	8,842	94	1,502	68	1,086	26	415	
10/10/98	1.968	767	12,581	88	1,444	66	1,083	22	361	
10/11/98	1.668	680	9,455	88	1,224	54	751	34	473	
10/12/98	2.048	615	10,502	74	1,264	58	990	16	273	
10/13/98	3.011	477	11,987	98	2,461	78	1,959	20	502	
10/14/98	2.050	467	7,984	74	1,265	50	855	24	410	
10/15/98	2.021	488	8,217	92	1,551	60	1,011	32	539	
10/16/98	1.885	644	10,118	66	1,038	44	692	22	346	
10/17/98	1.905	707	11,226	76	1,208	42	667	34	540	
10/18/98	1.813	620	9,370	62	938	44	665	18	272	
10/19/98	1.923	779	12,488	196	3,144	170	2,727	26	417	
10/20/98	1.931	765	12,317	80	1,288	62	998	18	290	
10/21/98	1.983	842	13,918	108	1,786	78	1,290	30	496	
10/22/98	1.848	758	11,675	114	1,757	74	1,141	40	617	
10/23/98	1.876	654	10,230	56	876	36	563	20	313	
10/24/98	1.938	724	11,703	98	1,584	74	1,196	24	388	
10/25/98	2.008	849	14,221	96	1,608	74	1,240	22	369	
10/26/98	1.763	786	11,559	90	1,324	70	1,029	20	294	
10/27/98	1.764	1,139	16,745	110	1,618	66	971	44	647	
10/28/98	1.938	714	11,541	96	1,552	62	1,002	34	550	
10/29/98	1.752	768	11,220	74	1,081	42	614	32	467	
10/30/98	1.942	836	13,533	70	1,134	50	810	20	324	
10/31/98	1.929	837	13,469	74	1,191	52	837	22	354	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
OCT Monthly Total	60.434	20,973	337,518	2,766	45,075	1,964	32,132	802	12,943	
OCT Daily Avg.	1.949	677	10,888	89	1,454	63	1,037	26	418	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total	62.319	18,892	311,265	2,438	40,608	1,722	28,676	716	11,932	
Sep Monthly Total	59.344	18,640	308,369	2,798	46,254	2,028	33,373	770	12,881	
Oct Monthly Total	60.434	20,973	337,518	2,766	45,075	1,964	32,132	802	12,943	
Nov Monthly Total										
Dec Monthly Total										
YTD Monthly Avg	64.869	17,050	298,243	2,593	45,009	1,828	31,820	765	13,188	
YTD Monthly Total	648.685	170,499	2,982,433	25,931	450,087	18,278	318,204	7,654	131,883	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2 307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	
Aug Daily Avg.	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Daily Avg.	1.978	621	10,279	93	1,542	68	1,112	26	429	
Oct Daily Avg.	1.949	677	10,888	89	1,454	63	1,037	26	418	
Nov Daily Avg.										
Dec Daily Avg.										
YTD Daily Avg.	2.135	560	9,811	85	1,481	60	1,047	25	433	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min	1.581	353	6,184	44	758	18	321	12	204	
Aug Monthly Min	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Monthly Min	1.636	480	7,417	56	867	34	518	2	32	
Oct Monthly Min	1.668	431	7,289	56	876	36	563	16	269	
Nov Monthly Min										
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	32	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max	2 991	884	15,284	140	2,654	110	2,085	52	820	
Aug Monthly Max	3.345	872	15,612	148	3,224	108	2,181	44	1,043	
Sep Monthly Max	2.661	1,136	19,766	224	3,540	184	2,932	50	1,110	
Oct Monthly Max	3.011	1,139	16,745	196	3,144	170	2,727	44	647	
Nov Monthly Max										
Dec Monthly Max										
YTD Monthly Max	3.547	1,139	19,766	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2 245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%	2.077	704	11,900	89	1,496	59	926	31	549	
Aug Monthly 75%	2.047	707	10,858	90	1,522	65	1,141	30	468	
Sep Monthly 75%	2.068	675	11,060	92	1,573	72	1,189	32	539	
Oct Monthly 75%	1.993	767	12,152	96	1,596	74	1,168	31	494	
Nov Monthly 75%										
Dec Monthly 75%										
YTD Monthly 75%	2.427	696	11,896	95	1,591	65	1,184	32	547	

NOTE: min, max, 75% values are selected per specific parameters not per day

Fort James Corp. Billing

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
11/01/98	7,628	636	4,851	74	564	
11/02/98	10,137	516	5,231	120	1,216	
11/03/98	8,709	480	4,184	98	853	
11/04/98	10,476	492	5,158	90	943	
11/05/98	8,253	671	5,534	220	1,816	
11/06/98	8,373	671	5,614	136	1,139	
11/07/98	7,086	777	5,506	118	836	
11/08/98	7,028	709	4,983	106	745	
11/09/98	7,732	681	5,265	152	1,175	
11/10/98	7,180	758	5,439	114	819	
11/11/98	11,485	561	6,443	180	2,067	
11/12/98	8,716	330	2,876	146	1,273	
11/13/98	8,901	422	3,752	84	748	
11/14/98	10,979	441	4,846	100	1,098	
11/15/98	11,836	410	4,851	42	497	
11/16/98	9,507	472	4,489	68	646	
11/17/98	8,293	523	4,338	156	1,294	
11/18/98	7,659	540	4,136	158	1,210	
11/19/98	8,054	555	4,470	140	1,128	
11/20/98	7,396	606	4,482	84	621	
11/21/98	8,116	606	4,918	62	503	
11/22/98	7,613	499	3,799	68	518	
11/23/98	7,334	671	4,917	86	631	
11/24/98	7,271	695	5,050	94	683	
11/25/98	6,750	707	4,769	96	648	
11/26/98	8,470	594	5,031	48	407	
11/27/98	7,300	705	5,147	112	818	
11/28/98	7,801	782	6,096	60	468	
11/29/98	7,245	626	4,532	112	811	
11/30/98	7,084	564	3,995	120	850	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
NOV Monthly Total	250,412	17,697	144,702	3,244	27,025	
NOV Daily Avg.	8,347	590	4,823	108	901	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total	235,877	18,892	141,264	2,438	18,430	
Sep Monthly Total	224,619	18,640	139,950	2,798	20,992	
Oct Monthly Total	228,743	20,973	153,179	2,766	20,457	
Nov Monthly Total	250,412	17,697	144,702	3,244	27,025	
Dec Monthly Total						
YTD Total	2,705,693	188,195	1,498,240	29,175	231,292	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.	7,609	609	4,557	79	595	
Sep Daily Avg.	7,487	621	4,665	93	700	
Oct Daily Avg.	7,379	677	4,941	89	660	
Nov Daily Avg.	8,347	590	4,823	108	901	
Dec Daily Avg.						
YTD Daily Avg.	8,106	563	4,486	87	693	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
11/01/98	2.015	636	10,690	74	1,244	48	807	26	437	
11/02/98	2.678	516	11,525	120	2,680	98	2,189	22	491	
11/03/98	2.301	480	9,218	98	1,881	66	1,267	32	614	
11/04/98	2.768	492	11,366	90	2,077	62	1,431	28	646	
11/05/98	2.180	671	12,193	220	4,001	192	3,491	28	509	
11/06/98	2.212	671	12,370	136	2,509	114	2,103	22	406	
11/07/98	1.872	777	12,132	118	1,842	76	1,187	42	656	
11/08/98	1.857	709	10,979	106	1,641	82	1,270	24	372	
11/09/98	2.043	681	11,602	152	2,590	114	1,942	38	647	
11/10/98	1.897	758	11,984	114	1,804	86	1,361	28	443	
11/11/98	3.034	561	14,197	180	4,555	150	3,796	30	759	
11/12/98	2.303	330	6,338	146	2,804	118	2,266	28	538	
11/13/98	2.352	422	8,267	84	1,647	62	1,216	22	431	
11/14/98	2.901	441	10,678	100	2,419	68	1,645	32	774	
11/15/98	3.127	410	10,690	42	1,095	30	782	12	313	
11/16/98	2.512	472	9,890	68	1,424	46	964	22	461	
11/17/98	2.191	523	9,559	156	2,851	112	2,047	44	804	
11/18/98	2.024	540	9,113	158	2,666	58	979	100	1,688	
11/19/98	2.128	555	9,849	140	2,484	90	1,597	50	887	
11/20/98	1.954	606	9,876	84	1,369	52	847	32	521	
11/21/98	2.144	606	10,837	62	1,109	44	787	18	322	
11/22/98	2.011	499	8,371	68	1,141	54	906	14	235	
11/23/98	1.938	671	10,835	86	1,390	56	905	30	485	
11/24/98	1.921	695	11,127	94	1,506	54	865	40	641	
11/25/98	1.783	707	10,508	96	1,428	54	803	42	625	
11/26/98	2.238	594	11,086	48	896	18	336	30	560	
11/27/98	1.929	705	11,340	112	1,802	80	1,287	32	515	
11/28/98	2.061	782	13,433	60	1,031	40	688	20	344	
11/29/98	1.914	626	9,985	112	1,788	76	1,213	36	575	
11/30/98	1.872	564	8,804	120	1,873	76	1,186	44	687	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
NOV Monthly Total	66.159	17,697	318,841	3,244	59,548	2,276	42,162	968	17,385	
NOV Daily Avg.	2.205	590	10,628	108	1,985	76	1,405	32	580	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total	62.319	18,892	311,265	2,438	40,608	1,722	28,676	716	11,932	
Sep Monthly Total	59.344	18,640	308,369	2,798	46,254	2,028	33,373	770	12,881	
Oct Monthly Total	60.434	20,973	337,518	2,766	45,075	1,964	32,132	802	12,943	
Nov Monthly Total	66.159	17,697	318,841	3,244	59,548	2,276	42,162	968	17,385	
Dec Monthly Total										
YTD Monthly Avg	64.986	17,109	300,116	2,652	46,330	1,869	32,761	784	13,570	
YTD Monthly Total	714.844	188,196	3,301,274	29,175	509,634	20,554	360,366	8,622	149,268	

JRC

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Daily Avg.	2.326	482	9,338	84	1,638	62	1,220	21	418	
Feb Daily Avg.	2.307	523	9,993	66	1,253	49	941	16	312	
Mar Daily Avg.	2.152	597	10,726	49	879	33	584	17	295	
Apr Daily Avg.	2.142	562	9,985	142	2,206	102	1,590	41	616	
May Daily Avg.	2.283	437	7,998	97	1,825	65	1,242	31	582	
Jun Daily Avg.	2.226	468	8,646	77	1,421	52	969	25	453	
Jul Daily Avg.	1.980	626	10,213	78	1,280	52	854	26	425	
Aug Daily Avg.	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Daily Avg.	1.978	621	10,279	93	1,542	68	1,112	26	429	
Oct Daily Avg.	1.949	677	10,888	89	1,454	63	1,037	26	418	
Nov Daily Avg.	2.205	590	10,628	108	1,985	76	1,405	32	580	
Dec Daily Avg.										
YTD Daily Avg.	2.142	563	9,885	87	1,527	62	1,080	26	447	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Min	1.951	305	5,851	36	691	18	359	2	37	
Feb Monthly Min	1.812	150	2,772	30	462	20	354	3	62	
Mar Monthly Min	1.599	470	7,142	18	333	8	147	2	37	
Apr Monthly Min	0.470	150	2,597	46	742	26	454	14	253	
May Monthly Min	1.339	161	3,548	30	509	16	402	4	68	
Jun Monthly Min	1.831	260	5,208	46	869	24	453	8	153	
July Monthly Min	1.581	353	6,184	44	758	18	321	12	204	
Aug Monthly Min	2.010	609	10,041	79	1,310	56	925	23	385	
Sep Monthly Min	1.636	480	7,417	56	867	34	518	2	32	
Oct Monthly Min	1.668	431	7,289	56	876	36	563	16	269	
Nov Monthly Min	1.783	330	6,338	42	896	18	336	12	235	
Dec Monthly Min										
YTD Monthly Min	0.470	150	2,597	18	333	8	147	2	32	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Max	2.785	633	12,480	702	13,471	570	10,938	132	2,533	
Feb Monthly Max	2.882	726	13,127	290	5,318	220	4,034	70	1,284	
Mar Monthly Max	2.751	755	14,912	126	2,362	90	1,687	36	675	
Apr Monthly Max	3.266	828	18,346	1,012	12,256	724	10,537	288	2,474	
May Monthly Max	3.547	855	14,235	346	6,765	302	5,905	162	2,805	
Jun Monthly Max	2.653	651	11,783	136	2,321	112	1,955	54	1,019	
July Monthly Max	2.991	884	15,284	140	2,654	110	2,085	52	820	
Aug Monthly Max	3.345	872	15,612	148	3,224	108	2,181	44	1,043	
Sep Monthly Max	2.661	1,136	19,766	224	3,540	184	2,932	50	1,110	
Oct Monthly Max	3.011	1,139	16,745	196	3,144	170	2,727	44	647	
Nov Monthly Max	3.127	782	14,197	220	4,555	192	3,796	100	1,688	
Dec Monthly Max										
YTD Monthly Max	3.547	1,139	19,766	1,012	13,471	724	10,938	288	2,805	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly 75%	2.504	517	10,207	66	1,356	48	943	26	502	
Feb Monthly 75%	2.503	592	11,104	74	1,443	53	1,114	18	385	
Mar Monthly 75%	2.245	631	11,887	57	991	39	702	24	416	
Apr Monthly 75 %	2.238	665	12,017	99	1,961	60	1,470	40	740	
May Monthly 75%	2.455	500	9,393	101	1,884	64	1,220	35	680	
Jun Monthly 75%	2.343	519	9,714	80	1,575	54	1,047	28	526	
Jul Monthly 75%	2.077	704	11,900	89	1,496	59	926	31	549	
Aug Monthly 75%	3.345	872	15,612	148	3,224	108	2,181	44	1,043	
Sep Monthly 75%	2.661	1,136	19,766	224	3,540	184	2,932	50	1,110	
Oct Monthly 75%	3.011	1,139	16,745	196	3,144	170	2,727	44	647	
Nov Monthly 75%	2.302	678	11,486	132	2,503	89	1,633	38	647	
Dec Monthly 75%										
YTD Monthly 75%	2.582	788	13,814	140	2,823	99	1,907	42	710	

NOTE: min, max, 75% values are selected per specific parameters not per day

Fort James Corp. Billing

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
12/01/98	6,971	495	3,451	120	837	
12/02/98	8,182	473	3,872	110	900	
12/03/98	7,281	551	4,008	76	553	
12/04/98	7,217	656	4,731	66	476	
12/05/98	7,269	493	3,582	74	538	
12/06/98	7,491	555	4,158	90	674	
12/07/98	7,824	665	5,199	78	610	
12/08/98	8,669	578	5,006	374	3,242	
12/09/98	7,597	560	4,254	74	562	
12/10/98	8,390	483	4,052	116	973	
12/11/98	6,872	549	3,773	134	921	
12/12/98	6,945	678	4,709	74	514	
12/13/98	8,722	579	5,050	88	768	
12/14/98	7,983	590	4,710	108	862	No Sample
12/15/98	8,731	513	4,479	94	821	
12/16/98	7,255	551	3,999	102	740	
12/17/98	7,354	534	3,927	72	529	
12/18/98	7,228	514	3,715	56	405	
12/19/98	7,260	524	3,801	76	552	
12/20/98	6,969	629	4,380	86	599	
12/21/98	8,759	552	4,835	64	561	
12/22/98	8,520	590	5,027	108	920	No Sample
12/23/98	7,950	543	4,317	84	668	
12/24/98	9,359	469	4,387	94	880	
12/25/98	1,911	199	380	170	325	
12/26/98	9,110	302	2,753	78	711	
12/27/98	8,077	390	3,153	76	614	
12/28/98	7,012	447	3,134	88	617	
12/29/98	6,850	539	3,689	104	712	
12/30/98	9,576	459	4,392	94	900	
12/31/98	8,303	575	4,770	80	664	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
DEC Monthly Total	237,637	16,231	125,693	3,108	23,648	
DEC Daily Avg.	7,666	524	4,055	100	763	

	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Monthly Total	272,868	14,944	131,382	2,599	23,040	
Feb Monthly Total	244,486	14,645	126,986	1,837	15,928	
Mar Monthly Total	252,513	18,521	150,895	1,527	12,367	
Apr Monthly Total	243,225	16,860	135,942	4,268	30,030	
May Monthly Total	267,840	13,554	112,528	2,994	25,671	
Jun Monthly Total	252,728	14,047	117,723	2,296	19,350	
Jul Monthly Total	232,382	19,421	143,690	2,408	18,002	
Aug Monthly Total	235,877	18,892	141,264	2,438	18,430	
Sep Monthly Total	224,619	18,640	139,950	2,798	20,992	
Oct Monthly Total	228,743	20,973	153,179	2,766	20,457	
Nov Monthly Total	250,412	17,697	144,702	3,244	27,025	
Dec Monthly Total	237,637	16,231	125,693	3,108	23,648	
YTD Total	2,943,330	204,426	1,623,933	32,283	254,940	

	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	COMMENTS
Jan Daily Avg.	8,802	482	4,238	84	743	
Feb Daily Avg.	8,732	523	4,535	66	569	
Mar Daily Avg.	8,146	597	4,868	49	399	
Apr Daily Avg.	8,108	562	4,531	142	1,001	
May Daily Avg.	8,640	437	3,630	97	828	
Jun Daily Avg.	8,424	468	3,924	77	645	
Jul Daily Avg.	7,496	626	4,635	78	581	
Aug Daily Avg.	7,609	609	4,557	79	595	
Sep Daily Avg.	7,487	621	4,665	93	700	
Oct Daily Avg.	7,379	677	4,941	89	660	
Nov Daily Avg.	8,347	590	4,823	108	901	
Dec Daily Avg.	7,666	524	4,055	100	763	
YTD Daily Avg.	8,070	560	4,450	88	699	

James Rivers Loadings

DATE	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
12/01/98	1.842	495	7,603	120	1,843	98	1,505	22	338	
12/02/98	2.162	473	8,532	110	1,983	86	1,550	24	433	
12/03/98	1.924	551	8,832	76	1,219	50	802	26	417	
12/04/98	1.907	656	10,424	66	1,050	48	763	18	286	
12/05/98	1.920	493	7,892	74	1,185	58	929	16	256	
12/06/98	1.979	555	9,161	90	1,486	82	1,353	8	132	
12/07/98	2.067	665	11,456	78	1,345	68	1,172	10	172	
12/08/98	2.290	578	11,031	374	7,144	110	2,101	264	5,043	
12/09/98	2.007	560	9,374	74	1,239	42	703	32	536	
12/10/98	2.217	483	8,929	116	2,144	90	1,664	26	481	
12/11/98	1.816	549	8,313	134	2,029	110	1,666	24	363	
12/12/98	1.835	678	10,375	74	1,132	54	826	20	306	
12/13/98	2.304	579	11,127	88	1,691	80	1,537	8	154	
12/14/98	2.109	590	10,378	108	1,900	76	1,337	32	563	No Sample
12/15/98	2.307	513	9,869	94	1,808	64	1,231	30	577	
12/16/98	1.917	551	8,812	102	1,631	46	735	56	895	
12/17/98	1.943	534	8,653	72	1,167	40	648	32	519	
12/18/98	1.910	514	8,186	56	892	36	573	20	319	
12/19/98	1.918	524	8,374	76	1,216	40	640	36	576	
12/20/98	1.841	629	9,651	86	1,321	70	1,075	16	246	
12/21/98	2.314	552	10,654	64	1,235	50	965	14	270	
12/22/98	2.251	590	11,076	108	2,028	76	1,427	32	601	No Sample
12/23/98	2.100	543	9,512	84	1,471	62	1,086	22	385	
12/24/98	2.473	469	9,667	94	1,938	40	825	54	1,114	
12/25/98	0.505	199	837	170	716	56	236	114	480	
12/26/98	2.407	302	6,067	78	1,566	42	843	36	723	
12/27/98	2.134	390	6,948	76	1,353	46	819	30	534	
12/28/98	1.853	447	6,906	88	1,360	66	1,020	22	340	
12/29/98	1.810	539	8,128	104	1,570	80	1,207	24	362	
12/30/98	2.530	459	9,677	94	1,983	74	1,561	20	422	
12/31/98	2.194	575	10,511	80	1,464	66	1,207	14	256	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
DEC Monthly Total	62.784	16,231	276,955	3,108	52,107	2,006	34,009	1,102	18,098	
DEC Daily Avg.	2.025	524	8,934	100	1,681	65	1,097	36	584	

	Flow, MGD	BOD, mg/L	BOD, lbs/d	TSS, mg/L	TSS, lbs/d	VSS, mg/L	VSS, lbs/d	Ash, mg/L	Ash, lbs/d	COMMENTS
Jan Monthly Total	72.092	14,944	289,491	2,599	50,766	1,935	37,818	664	12,948	
Feb Monthly Total	64.593	14,645	279,804	1,837	35,097	1,381	26,359	456	8,738	
Mar Monthly Total	66.714	18,521	332,494	1,527	27,250	1,013	18,097	514	9,153	
Apr Monthly Total	64.260	16,860	299,537	4,268	66,168	3,050	47,687	1,219	18,481	
May Monthly Total	70.763	13,554	247,948	2,994	56,565	2,023	38,515	971	18,050	
Jun Monthly Total	66.771	14,047	259,394	2,296	42,637	1,560	29,057	736	13,580	
Jul Monthly Total	61.395	19,421	316,611	2,408	39,666	1,602	26,489	806	13,177	
Aug Monthly Total	62.319	18,892	311,265	2,438	40,608	1,722	28,676	716	11,932	
Sep Monthly Total	59.344	18,640	308,369	2,798	46,254	2,028	33,373	770	12,881	
Oct Monthly Total	60.434	20,973	337,518	2,766	45,075	1,964	32,132	802	12,943	
Nov Monthly Total	66.159	17,697	318,841	3,244	59,548	2,276	42,162	968	17,385	
Dec Monthly Total	62.784	16,231	276,955	3,108	52,107	2,006	34,009	1,102	18,098	
YTD Monthly Avg	64.140	17,226	298,976	2,699	46,452	1,875	32,414	824	14,038	
YTD Monthly Total	705.536	204,427	3,301,274	29,175	509,634	20,554	360,366	8,622	149,268	

1999

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/99	8,303	513	4,259	340	2,823
01/02/99	7,183	524	3,764	100	718
01/03/99	6,946	579	4,022	92	639
01/04/99	6,947	476	3,307	126	875
01/05/99	8,218	602	4,943	108	888
01/06/99	4,792	515	2,465	122	585
01/07/99	8,688	459	3,988	94	817
01/08/99	7,840	452	3,540	66	517
01/09/99	7,932	537	4,256	100	793
01/10/99	6,654	573	3,813	106	705
01/11/99	7,441	612	4,554	98	729
01/12/99	6,590	593	3,905	78	514
01/13/99	7,138	442	3,155	70	500
01/14/99	9,655	496	4,789	80	772
01/15/99	4,895	519	2,541	60	294
01/16/99	6,985	514	3,590	74	517
01/17/99	6,974	522	3,640	66	460
01/18/99	9,523	495	4,714	160	1,524
01/19/99	8,922	642	5,728	120	1,071
01/20/99	9,356	486	4,547	120	1,123
01/21/99	8,271	524	4,334	100	827
01/22/99	9,492	488	4,632	54	513
01/23/99	8,100	521	4,220	56	454
01/24/99	8,981	476	4,275	24	216
01/25/99	8,792	445	3,912	54	475
01/26/99	7,666	336	2,576	84	644
01/27/99	9,452	479	4,528	56	529
01/28/99	8,411	373	3,137	76	639
01/29/99	8,595	452	3,885	50	430
01/30/99	7,941	540	4,288	70	556
01/31/99	8,615	628	5,410	76	655
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	245,298		124,717		22,800
Daily Avg.	7,913	510	4,023	93	735

IPP

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/99	8,303	513	4,259	340	2,823
01/02/99	7,183	524	3,764	100	718
01/03/99	6,946	579	4,022	92	639
01/04/99	6,947	476	3,307	126	875
01/05/99	8,218	602	4,943	108	888
01/06/99	4,792	515	2,465	122	585
01/07/99	8,688	459	3,988	94	817
01/08/99	7,840	452	3,540	66	517
01/09/99	7,932	537	4,256	100	793
01/10/99	6,654	573	3,813	106	705
01/11/99	7,441	612	4,554	98	729
01/12/99	6,590	593	3,905	78	514
01/13/99	7,138	442	3,155	70	500
01/14/99	9,655	496	4,789	80	772
01/15/99	4,895	519	2,541	60	294
01/16/99	6,985	514	3,590	74	517
01/17/99	6,974	522	3,640	66	460
01/18/99	9,523	495	4,714	160	1,524
01/19/99	8,922	642	5,728	120	1,071
01/20/99	9,356	486	4,547	120	1,123
01/21/99	8,271	524	4,334	100	827
01/22/99	9,492	488	4,632	54	513
01/23/99	8,100	521	4,220	56	454
01/24/99	8,981	476	4,275	24	216
01/25/99	8,792	445	3,912	54	475
01/26/99	7,666	336	2,576	84	644
01/27/99	9,452	479	4,528	56	529
01/28/99	8,411	373	3,137	76	639
01/29/99	8,595	452	3,885	50	430
01/30/99	7,941	540	4,288	70	556
01/31/99	8,615	628	5,410	76	655

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	245,298		124,717		22,800
Daily Avg.	7,913	510	4,023	93	735

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	245,298		124,717		22,800
Feb Monthly Total					
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	245,298		124,717		22,800

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,913	510	4,023	93	735
Feb Daily Avg.					
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	7,913	510	4,023	93	735

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/99	8,680	429	3,724	90	781
02/02/99	9,730	407	3,960	72	701
02/03/99	10,280	476	4,893	78	802
02/04/99	9,730	620	6,033	120	1,168
02/05/99	7,420	663	4,919	62	460
02/06/99	8,830	774	6,834	60	530
02/07/99	8,630	585	5,049	68	587
02/08/99	8,020	584	4,684	56	449
02/09/99	7,050	591	4,167	86	606
02/10/99	8 040	518	4,165	40	322
02/11/99	7,540	600	4,524	74	558
02/12/99	7,590	682	5,176	58	440
02/13/99	7,140	628	4,484	52	371
02/14/99	8,100	646	5,233	50	405
02/15/99	7,950	585	4,651	102	811
02/16/99	8,500	559	4,752	70	595
02/17/99	9,250	505	4,671	62	574
02/18/99	9,540	513	4,894	100	954
02/19/99	7,580	466	3,532	64	485
02/20/99	7 430	489	3,633	70	520
02/21/99	7 060	675	4,766	84	593
02/22/99	7,410	554	4,105	88	652
02/23/99	9,250	399	3,691	98	907
02/24/99	10,620	390	4,142	80	850
02/25/99	9,260	375	3,473	80	741
02/26/99	9,470	332	3,144	90	852
02/27/99	8,690	485	4,215	86	747
02/28/99	7,610	489	3,721	78	594

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	236,400		125,233		18,053
Daily Avg.	8,443	536	4,473	76	645

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	245,298		124,717		22,800
Feb Monthly Total	236,400		125,233		18,053
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	481 698		249,950		40,853
YTD Mon. Tot. Avg.	240 849		124,975		20,427

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,913	510	4 023	93	735
Feb Daily Avg.	8,443	536	4,473	76	645
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,178	523	4,248	84	690

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/99	8,300	515	4,275	110	913
03/02/99	6,230	407	2,536	94	586
03/03/99	6,500	309	2,009	50	325
03/04/99	10,080	451	4,546	52	524
03/05/99	9,150	606	5,545	48	439
03/06/99	7,740	529	4,094	94	728
03/07/99	7,730	533	4,120	66	510
03/08/99	9,200	440	4,048	48	442
03/09/99	8,590	463	3,977	50	430
03/10/99	8,400	527	4,427	74	622
03/11/99	8,830	470	4,150	72	636
03/12/99	8,090	438	3,543	54	437
03/13/99	9,010	548	4,937	50	451
03/14/99	9,210	716	6,594	96	884
03/15/99	8,480	577	4,893	54	458
03/16/99	8,980	553	4,966	64	575
03/17/99	7,720	502	3,875	80	618
03/18/99	8,620	558	4,810	70	603
03/19/99	7,900	645	5,096	46	363
03/20/99	8,490	557	4,729	50	425
03/21/99	8,050	656	5,281	58	467
03/22/99	9,290	594	5,518	80	743
03/23/99	7,320	548	4,011	60	439
03/24/99	8,490	561	4,763	94	798
03/25/99	8,890	447	3,974	82	729
03/26/99	9,340	568	5,305	66	616
03/27/99	8,460	639	5,406	74	626
03/28/99	8,600	688	5,917	62	533
03/29/99	8,170	443	3,619	108	882
03/30/99	8,340	479	3,995	62	517
03/31/99	9,880	426	4,209	82	810
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	262,080		139,168		18,128
Daily Avg.	8,454	529	4,489	69	585

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/99	8,230	578	4,757	102	839
04/02/99	7,210	477	3,439	60	433
04/03/99	8,000	661	5,288	46	368
04/04/99	7,410	611	4,528	70	519
04/05/99	8,070	615	4,963	70	565
04/06/99	8,170	457	3,734	94	768
04/07/99	7,580	582	4,412	48	364
04/08/99	8,390	685	5,747	44	369
04/09/99	7,610	548	4,170	96	731
04/10/99	8,460	531	4,492	50	423
04/11/99	7,720	503	3,883	114	880
04/12/99	6,670	623	4,155	70	467
04/13/99	7,880	441	3,475	86	678
04/14/99	8,350	420	3,507	60	501
04/15/99	8,000	541	4,328	76	608
04/16/99	8,820	548	4,833	64	564
04/17/99	7,850	725	5,691	68	534
04/18/99	8,070	652	5,262	62	500
04/19/99	8,950	474	4,242	56	501
04/20/99	9,220	548	5,053	80	738
04/21/99	7,660	519	3,976	128	980
04/22/99	8,330	425	3,540	92	766
04/23/99	8,930	454	4,054	58	518
04/24/99	8,180	610	4,990	82	671
04/25/99	7,720	524	4,045	82	633
04/26/99	8,660	473	4,096	70	606
04/27/99	8,020	587	4,708	88	706
04/28/99	8,060	903	7,278	56	451
04/29/99	7,900	233	1,841	68	537
04/30/99	7,940	608	4,828	74	588
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	242,060		133,315		17,806
Daily Avg.	8,069	552	4,444	74	594

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
05/01/99	9,000	622	5,598	106	954
05/02/99	8,190	719	5,889	56	459
05/03/99	7,450	622	4,634	60	447
05/04/99	7,850	629	4,938	82	644
05/05/99	8,500	532	4,522	46	391
05/06/99	8,180	402	3,288	80	654
05/07/99	8,370	476	3,984	64	536
05/08/99	7,640	620	4,737	44	336
05/09/99	8,820	560	4,939	42	370
05/10/99	8,210	456	3,744	38	312
05/11/99	7,220	567	4,094	42	303
05/12/99	7,770	455	3,535	72	559
05/13/99	9,000	315	2,835	88	792
05/14/99	7,820	340	2,659	78	610
05/15/99	8,900	341	3,035	52	463
05/16/99	7,620	439	3,345	52	396
05/17/99	8,400	308	2,587	132	1,109
05/18/99	9,470	384	3,636	78	739
05/19/99	11,000	362	3,982	64	704
05/20/99	8,880	443	3,934	80	710
05/21/99	8,230	345	2,839	140	1,152
05/22/99	8,240	496	4,087	78	643
05/23/99	7,430	431	3,202	74	550
05/24/99	8,600	344	2,958	170	1,462
05/25/99	8,300	367	3,046	62	515
05/26/99	8,200	544	4,461	48	394
05/27/99	8,850	226	2,000	50	443
05/28/99	7,780	331	2,575	60	467
05/29/99	9,530	552	5,261	74	705
05/30/99	8,530	552	4,709	74	631
05/31/99	8,510	552	4,698	74	630
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	260,490	[illegible]	119,751	[illegible]	19,079
Daily Avg.	8,403	462	3,863	73	615

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
06/01/99	7,770	545	4,235	70	544
06/02/99	7,910	442	3,496	68	538
06/03/99	6,610	389	2,571	70	463
06/04/99	8,600	434	3,732	66	568
06/05/99	8,300	467	3,876	62	515
06/06/99	8,200	428	3,510	48	394
06/07/99	7,510	428	3,214	68	511
06/08/99	7,660	461	3,531	68	521
06/09/99	8,140	361	2,939	104	847
06/10/99	7,800	431	3,362	82	640
06/11/99	8,200	413	3,387	78	640
06/12/99	7,860	435	3,419	120	943
06/13/99	9,230	392	3,618	88	812
06/14/99	9,500	280	2,660	64	608
06/15/99	9,150	475	4,346	50	458
06/16/99	9,810	547	5,366	40	392
06/17/99	7,750	455	3,526	76	589
06/18/99	11,000	428	4,708	78	858
06/19/99	10,000	384	3,840	48	480
06/20/99	8,200	437	3,583	66	541
06/21/99	7,220	331	2,390	60	433
06/22/99	7,370	290	2,137	58	427
06/23/99	11,210	386	4,327	46	516
06/24/99	9,180	316	2,901	80	734
06/25/99	8,020	500	4,010	64	513
06/26/99	8,230	474	3,901	74	609
06/27/99	8,350	587	4,901	66	551
06/28/99	7,340	479	3,516	70	514
06/29/99	8,520	370	3,152	52	443
06/30/99	7,800	474	3,697	56	437
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	252,440		107,853		17,037
Daily Avg.	8,415	428	3,595	68	568

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
07/01/99	8,360	435	3,637	64	535
07/02/99	8,480	518	4,393	74	628
07/03/99	8,400	394	3,310	68	571
07/04/99	9,120	493	4,496	76	693
07/05/99	8,470	415	3,515	74	627
07/06/99	7,900	439	3,468	88	695
07/07/99	7,670	339	2,600	88	675
07/08/99	7,750	485	3,759	42	326
07/09/99	11,160	427	4,765	42	469
07/10/99	6,480	401	2,598	116	752
07/11/99	8,550	370	3,164	64	547
07/12/99	9,600	390	3,744	42	403
07/13/99	8,210	409	3,358	74	608
07/14/99	8,490	380	3,226	66	560
07/15/99	9,920	390	3,869	72	714
07/16/99	8,460	419	3,545	52	440
07/17/99	7,600	423	3,215	64	486
07/18/99	9,720	508	4,938	62	603
07/19/99	7,040	444	3,126	72	507
07/20/99	7,990	429	3,428	62	495
07/21/99	9,570	393	3,761	112	1,072
07/22/99	9,900	294	2,911	62	614
07/23/99	10,130	331	3,353	68	689
07/24/99	8,930	309	2,759	130	1,161
07/25/99	11,030	434	4,787	70	772
07/26/99	10,360	485	5,025	64	663
07/27/99	9,730	349	3,396	74	720
07/28/99	10,070	602	6,062	68	685
07/29/99	9,410	327	3,077	54	508
07/30/99	10,220	338	3,454	48	491
07/31/99	8,670	415	3,598	62	538
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	277,390		114,335		19,245
Daily Avg.	8,948	412	3,688	70	621

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/99	7,500	297	2,228	72	540
09/02/99	7,000	470	3,290	120	840
09/03/99	8,170	354	2,892	82	670
09/04/99	7,390	511	3,776	132	975
09/05/99	7,045	375	2,641	65	455
09/06/99	7,045	375	2,641	65	455
09/07/99	7,350	377	2,771	96	706
09/08/99	8,450	452	3,819	84	710
09/09/99	7,680	518	3,978	86	660
09/10/99	7,100	400	2,840	86	611
09/11/99	7,100	778	5,524	60	426
09/12/99	7,230	690	4,989	68	492
09/13/99	7,550	507	3,828	100	755
09/14/99	7,110	541	3,847	78	555
09/15/99	7,150	578	4,133	66	472
09/16/99	7,440	471	3,504	82	610
09/17/99	7,240	305	2,208	52	376
09/18/99	7,280	457	3,327	78	568
09/19/99	7,030	386	2,714	56	394
09/20/99	9,320	384	3,579	120	1,118
09/21/99	6,140	441	2,708	86	528
09/22/99	8,170	291	2,377	66	539
09/23/99	7,660	357	2,735	88	674
09/24/99	7,400	517	3,826	94	696
09/25/99	7,160	910	6,516	126	902
09/26/99	6,840	521	3,564	102	698
09/27/99	8,710	373	3,249	98	854
09/28/99	7,630	237	1,808	98	748
09/29/99	9,790	336	3,289	78	764
09/30/99	8,480	299	2,536	100	848
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	227,160		101,135		19,636
Daily Avg.	7,572	450	3,371	86	655

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/99	8,830	273	2,411	72	636
10/02/99	7,570	497	3,762	74	560
10/03/99	8,000	390	3,120	70	560
10/04/99	7,620	332	2,530	64	488
10/05/99	7,400	427	3,160	88	651
10/06/99	7,970	512	4,081	112	893
10/07/99	6,350	367	2,330	88	559
10/08/99	8,380	375	3,143	78	654
10/09/99	8,500	357	3,035	78	663
10/10/99	7,580	301	2,282	96	728
10/11/99	7,200	514	3,701	66	475
10/12/99	7,610	637	4,848	54	411
10/13/99	7,440	485	3,608	30	223
10/14/99	7,760	646	5,013	44	341
10/15/99	7,210	838	6,042	40	288
10/16/99	7,200	658	4,738	56	403
10/17/99	7,530	695	5,233	72	542
10/18/99	7,620	567	4,321	72	549
10/19/99	9,430	519	4,894	204	1,924
10/20/99	8,720	396	3,453	92	802
10/21/99	9,280	312	2,895	58	538
10/22/99	5,830	442	2,577	90	525
10/23/99	6,740	368	2,480	38	256
10/24/99	7,280	475	3,458	58	422
10/25/99	8,320	318	2,646	86	716
10/26/99	6,150	502	3,087	72	443
10/27/99	9,010	721	6,496	62	559
10/28/99	6,680	588	3,928	64	428
10/29/99	8,367	450	3,765	62	519
10/30/99	8,367	450	3,765	86	720
10/31/99	8,366	450	3,765	86	719
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	240,310		114,565		18,193
Daily Avg.	7,752	479	3,696	75	587

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FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/99	8,830	273	2,411	72	636
10/02/99	7,570	497	3,762	74	560
10/03/99	8,000	390	3,120	70	560
10/04/99	7,620	332	2,530	64	488
10/05/99	7,400	427	3,160	88	651
10/06/99	7,970	512	4,081	112	893
10/07/99	6,350	367	2,330	88	559
10/08/99	8,380	375	3,143	78	654
10/09/99	8,500	357	3,035	78	663
10/10/99	7,580	301	2,282	96	728
10/11/99	7,200	514	3,701	66	475
10/12/99	7,610	637	4,848	54	411
10/13/99	7,440	485	3,608	30	223
10/14/99	7,760	646	5,013	44	341
10/15/99	7,210	838	6,042	40	288
10/16/99	7,200	658	4,738	56	403
10/17/99	7,530	695	5,233	72	542
10/18/99	7,620	567	4,321	72	549
10/19/99	9,430	519	4,894	204	1,924
10/20/99	8 720	396	3,453	92	802
10/21/99	9,280	312	2,895	58	538
10/22/99	5,830	442	2,577	90	525
10/23/99	6,740	368	2,480	38	256
10/24/99	7,280	475	3,458	58	422
10/25/99	8,320	318	2,646	86	716
10/26/99	6,150	502	3,087	72	443
10/27/99	9,010	721	6,496	62	559
10/28/99	6,680	588	3,928	64	428
10/29/99	8,367	450	3,765	62	519
10/30/99	8,367	450	3,765	86	720
10/31/99	8,366	450	3,765	86	719
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	240,310		114,565		18,193
Daily Avg.	7,752	479	3,696	75	587
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	245,298		124,717		22,800
Feb Monthly Total	236,400		125,233		18,053
Mar Monthly Total	262,080		139,168		18,128
Apr Monthly Total	242,060		133,315		17,806
May Monthly Total	260,490		119,751		19,079
Jun Monthly Total	252,440		107,853		17,037
Jul Monthly Total	277 390		114,335		19,245
Aug Monthly Total	277,540		103,638		17,592
Sep Monthly Total	227,160		101,135		19,636
Oct Monthly Total	240,310		114,565		18,193
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,521,168		1,183,710		187,570
YTD Mon. Tot. Avg.	252,117		118,371		18,757
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,913	510	4,023	93	735
Feb Daily Avg.	8,443	536	4 473	76	645
Mar Daily Avg.	8,454	529	4,489	69	585
Apr Daily Avg.	8,069	552	4,444	74	594
May Daily Avg.	8,403	462	3,863	73	615
Jun Daily Avg.	8,415	428	3,595	68	568
Jul Daily Avg.	8,948	412	3,688	70	621
Aug Daily Avg.	8,953	375	3,343	65	567
Sep Daily Avg.	7,572	450	3,371	86	655
Oct Daily Avg.	7,752	479	3,696	75	587
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,292	473	3,899	75	617

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/99	8 440	537	4,532	102	861
11/02/99	8 500	520	4 420	60	510
11/03/99	9,840	545	5,363	72	708
11/04/99	7,520	445	3,346	60	451
11/05/99	6 560	496	3,254	56	367
11/06/99	7,850	559	4,388	56	440
11/07/99	9,880	615	6,076	100	988
11/08/99	7,610	703	5,350	58	441
11/09/99	7 580	382	2,896	50	379
11/10/99	6,360	741	4,713	164	1,043
11/11/99	8,280	486	4,024	46	381
11/12/99	8,460	346	2,927	54	457
11/13/99	8,920	434	3,871	50	446
11/14/99	8,940	349	3,120	94	840
11/15/99	8,060	514	4,143	78	629
11/16/99	8,250	540	4,455	56	462
11/17/99	7,970	786	6,264	80	638
11/18/99	6,390	763	4 876	90	575
11/19/99	7,440	866	6,443	58	432
11/20/99	7,760	573	4,446	68	528
11/21/99	8,180	662	5,415	94	769
11/22/99	9,130	743	6,784	60	548
11/23/99	5,040	786	3,961	88	444
11/24/99	6,840	683	4,672	62	424
11/25/99	12,040	653	7,862	42	506
11/26/99	3,220	623	2,006	94	303
11/27/99	7,070	643	4,546	74	523
11/28/99	9,780	630	6,161	82	802
11/29/99	7,640	558	4,263	114	871
11/30/99	8,340	485	4,045	86	717

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	237,890		138,623		17,482
Daily Avg.	7,930	589	4,621	75	583

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	245,298		124,717		22,800
Feb Monthly Total	236,400		125,233		18,053
Mar Monthly Total	262,080		139,168		18,128
Apr Monthly Total	242,060		133,315		17,806
May Monthly Total	260,490		119,751		19,079
Jun Monthly Total	252,440		107,853		17,037
Jul Monthly Total	277,390		114,335		19,245
Aug Monthly Total	277,540		103,638		17,592
Sep Monthly Total	227,160		101,135		19,636
Oct Monthly Total	240,310		114,565		18,193
Nov Monthly Total	237,890		138,623		17,482
Dec Monthly Total					
YTD Total	2,759,058		124,717		22,800
YTD Mon. Tot. Avg.	250,823		120,212		18,641

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,913	510	4,023	93	735
Feb Daily Avg.	8,443	536	4,473	76	645
Mar Daily Avg.	8,454	529	4,489	69	585
Apr Daily Avg.	8 069	552	4,444	74	594
May Daily Avg.	8,403	462	3,863	73	615
Jun Daily Avg.	8,415	428	3,595	68	568
Jul Daily Avg.	8,948	412	3,688	70	621
Aug Daily Avg.	8,953	375	3,343	65	567
Sep Daily Avg.	7 572	450	3,371	86	655
Oct Daily Avg.	7,752	479	3,696	75	587
Nov Daily Avg.	7,674	589	4,621	75	583
Dec Daily Avg.					
YTD Daily Avg.	8,236	484	3,964	75	614

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/99	8,440	170	1,435	154	1,300
12/02/99	6,640	415	2,756	118	784
12/03/99	7,570	287	2,173	78	590
12/04/99	7,620	481	3,665	64	488
12/05/99	8,210	359	2,947	80	657
12/06/99	9,280	207	1,921	64	594
12/07/99	7,020	589	4,134	75	526
12/08/99	7,960	362	2,882	66	525
12/09/99	7,390	581	4,294	68	503
12/10/99	6,960	612	4,260	102	710
12/11/99	8,000	782	6,256	58	464
12/12/99	8,210	564	4,630	74	608
12/13/99	8,030	585	4,698	64	514
12/14/99	8,560	645	5,521	58	496
12/15/99	7,250	576	4,176	76	551
12/16/99	8,300	795	6,599	58	481
12/17/99	6,460	724	4,677	46	297
12/18/99	7,930	654	5,186	36	285
12/19/99	8,910	443	3,947	54	481
12/20/99	7 280	484	3,524	84	612
12/21/99	8,910	418	3,724	82	731
12/22/99	7,310	411	3,004	54	395
12/23/99	7,640	672	5,134	64	489
12/24/99	8,400	502	4,217	160	1,344
12/25/99	7,510	64	481	174	1,307
12/26/99	8,630	221	1,907	142	1,225
12/27/99	7,680	399	3,064	90	691
12/28/99	9,630	229	2,205	80	770
12/29/99	7,650	418	3,198	408	3,121
12/30/99	8,170	421	3,440	52	425
12/31/99	7,600	550	4,180	50	380
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	245,150		114,233		22,344
Daily Avg.	7,908	472	3,685	91	721
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	245,298		124,717		22,800
Feb Monthly Total	236,400		125,233		18,053
Mar Monthly Total	262,080		139,168		18,128
Apr Monthly Total	242,060		133,315		17,806
May Monthly Total	260,490		119,751		19,079
Jun Monthly Total	252,440		107,853		17,037
Jul Monthly Total	277,390		114,335		19,245
Aug Monthly Total	277,540		103,638		17,592
Sep Monthly Total	227,160		101,135		19,636
Oct Monthly Total	240,310		114,565		18,193
Nov Monthly Total	237,890		138,623		17,482
Dec Monthly Total	245,150		114,233		22,344
YTD Total	3,004,208		1,436,566		227,395
YTD Mon. Tot. Avg.	250,351		119,714		18,950
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,913	510	4,023	93	735
Feb Daily Avg.	8,443	536	4,473	76	645
Mar Daily Avg.	8,454	529	4,489	69	585
Apr Daily Avg.	8,069	552	4,444	74	594
May Daily Avg.	8,403	462	3,863	73	615
Jun Daily Avg.	8,415	428	3,595	68	568
Jul Daily Avg.	8,948	412	3,688	70	621
Aug Daily Avg.	8,953	375	3,343	65	567
Sep Daily Avg.	7,572	450	3,371	86	655
Oct Daily Avg.	7,752	479	3,696	75	587
Nov Daily Avg.	7,674	589	4,621	75	583
Dec Daily Avg.	7,908	472	3,685	91	721
YTD Daily Avg.	8 209	483	3,941	76	623

2000

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/00	8,310	645	5,360	62	515
01/02/00	8,230	674	5,547	68	560
01/03/00	7,980	662	5,283	78	622
01/04/00	7,600	530	4,028	122	927
01/05/00	7,700	782	6,021	78	601
01/06/00	8,750	601	5,259	166	1,453
01/07/00	7,430	777	5,773	96	713
01/08/00	8,460	490	4,145	54	457
01/09/00	8,890	433	3,849	62	551
01/10/00	7,780	444	3,454	72	560
01/11/00	7,570	429	3,248	50	379
01/12/00	7,950	618	4,913	68	541
01/13/00	6,980	734	5,123	38	265
01/14/00	6,330	376	2,380	66	418
01/15/00	8,260	423	3,494	50	413
01/16/00	8,560	594	5,085	68	582
01/17/00	7,620	852	6,492	64	488
01/18/00	8,520	768	6,543	86	733
01/19/00	6,450	752	4,850	60	387
01/20/00	7,780	875	6,808	72	560
01/21/00	7,780	509	3,960	52	405
01/22/00	7,090	402	2,850	96	681
01/23/00	7,330	588	4,310	58	425
01/24/00	7,890	538	4,245	82	647
01/25/00	7,960	475	3,781	84	669
01/26/00	8,180	568	4,646	58	474
01/27/00	7,910	451	3,567	54	427
01/28/00	8,360	554	4,631	72	602
01/29/00	8,060	558	4,497	68	548
01/30/00	6,890	529	3,645	72	496
01/31/00	7,900	299	2,362	68	537
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	✓242,500		✓140,152		✓17,635
Daily Avg.	✓7,823	✓578	✓4,521	✓72	✓569

Post-It® Fax Note 7671	Date 2-21-00 # of pages ▶ 3
To Bob	From Karen
Co./Dept.	Co.
Phone #	Phone #
Fax # 8699	Fax #

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/00	8,060	381	3,071	72	580
02/02/00	6,700	566	3,792	152	1,018
02/03/00	9,110	340	3,097	120	1,093
02/04/00	8,080	440	3,555	72	582
02/05/00	8,150	730	5,950	136	1,108
02/06/00	8,100	660	5,346	56	454
02/07/00	8,820	616	5,433	66	582
02/08/00	8,240	454	3,741	102	840
02/09/00	8,090	680	5,501	56	453
02/10/00	7,830	460	3,602	64	501
02/11/00	8,020	684	5,486	56	449
02/12/00	7,760	694	5,385	54	419
02/13/00	8,220	631	5,187	52	427
02/14/00	7,810	433	3,382	72	562
02/15/00	9,780	334	3,267	60	587
02/16/00	7,860	486	3,820	78	613
02/17/00	7,560	546	4,128	70	529
02/18/00	7,600	502	3,815	56	426
02/19/00	7,700	863	6,645	48	370
02/20/00	7,780	700	5,446	92	716
02/21/00	8,340	350	2,919	84	701
02/22/00	8,460	506	4,281	80	677
02/23/00	8,350	450	3,758	62	518
02/24/00	7,910	411	3,251	44	348
02/25/00	8,120	629	5,107	62	503
02/26/00	8,530	513	4,376	80	682
02/27/00	7,740	603	4,667	92	712
02/28/00	8,360	438	3,662	102	853
02/29/00	9,290	330	3,066	80	743
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	236,370		124,735		18,047
Daily Avg.	8,151	532	4,301	77	622

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/00	8,060	381	3,071	72	580
02/02/00	6,700	566	3,792	152	1,018
02/03/00	9,110	340	3,097	120	1,093
02/04/00	8,080	440	3,555	72	582
02/05/00	8,150	730	5,950	136	1,108
02/06/00	8,100	660	5,346	56	454
02/07/00	8,820	616	5,433	66	582
02/08/00	8,240	454	3,741	102	840
02/09/00	8,090	680	5,501	56	453
02/10/00	7,830	460	3,602	64	501
02/11/00	8,020	684	5,486	56	449
02/12/00	7,760	694	5,385	54	419
02/13/00	8,220	631	5,187	52	427
02/14/00	7,810	433	3,382	72	562
02/15/00	9,780	334	3,267	60	587
02/16/00	7,860	486	3,820	78	613
02/17/00	7,560	546	4,128	70	529
02/18/00	7,600	502	3,815	56	426
02/19/00	7,700	863	6,645	48	370
02/20/00	7,780	700	5,446	92	716
02/21/00	8,340	350	2,919	84	701
02/22/00	8,460	506	4,281	80	677
02/23/00	8,350	450	3,758	62	518
02/24/00	7,910	411	3,251	44	348
02/25/00	8,120	629	5,107	62	503
02/26/00	8,530	513	4,376	80	682
02/27/00	7,740	603	4,667	92	712
02/28/00	8,360	438	3,662	102	853
02/29/00	9,290	330	3,066	80	743

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	236,370		124,735		18,047
Daily Avg.	8,151	532	4,301	77	622

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	478,870		264,886		35,682
YTD Mon. Tot. Avg.	239,435		132,443		17,841

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	7,987	555	4,411	74	596

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/00	9,050	240	2,172	108	977
03/02/00	8,570	192	1,645	72	617
03/03/00	8,760	247	2,164	90	788
03/04/00	8,390	290	2,433	60	503
03/05/00	7,950	316	2,512	54	429
03/06/00	8,370	391	3,273	82	686
03/07/00	8,530	273	2,329	62	529
03/08/00	6,920	305	2,111	76	526
03/09/00	9,300	242	2,251	68	632
03/10/00	8,130	310	2,520	58	472
03/11/00	8,830	261	2,305	70	618
03/12/00	8,340	286	2,385	52	434
03/13/00	8,250	426	3,515	74	611
03/14/00	9,220	389	3,587	64	590
03/15/00	7,780	335	2,606	52	405
03/16/00	9,130	425	3,880	134	1,223
03/17/00	9,400	502	4,719	68	639
03/18/00	7,410	533	3,950	68	504
03/19/00	8,500	361	3,069	70	595
03/20/00	8,780	231	2,028	74	650
03/21/00	7,890	263	2,075	74	584
03/22/00	8,320	432	3,594	82	682
03/23/00	8,120	363	2,948	56	455
03/24/00	9,500	323	3,069	64	608
03/25/00	7,830	519	4,064	84	658
03/26/00	7,780	566	4,403	102	794
03/27/00	8,280	560	4,637	88	729
03/28/00	7,750	528	4,092	58	450
03/29/00	9,390	495	4,648	74	695
03/30/00	7,710	397	3,061	84	648
03/31/00	7,450	362	2,697	122	909
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	259,630		94,739		19,638
Daily Avg.	8,375	367	3,056	76	633

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/00	9,050	240	2,172	108	977
03/02/00	8,570	192	1,645	72	617
03/03/00	8,760	247	2,164	90	788
03/04/00	8,390	290	2,433	60	503
03/05/00	7,950	316	2,512	54	429
03/06/00	8,370	391	3,273	82	686
03/07/00	8,530	273	2,329	62	529
03/08/00	6,920	305	2,111	76	526
03/09/00	9,300	242	2,251	68	632
03/10/00	8,130	310	2,520	58	472
03/11/00	8,830	261	2,305	70	618
03/12/00	8,340	286	2,385	52	434
03/13/00	8,250	426	3,515	74	611
03/14/00	9,220	389	3,587	64	590
03/15/00	7,780	335	2,606	52	405
03/16/00	9,130	425	3,880	134	1,223
03/17/00	9,400	502	4,719	68	639
03/18/00	7,410	533	3,950	68	504
03/19/00	8,500	361	3,069	70	595
03/20/00	8,780	231	2,028	74	650
03/21/00	7,890	263	2,075	74	584
03/22/00	8,320	432	3,594	82	682
03/23/00	8,120	363	2,948	56	455
03/24/00	9,500	323	3,069	64	608
03/25/00	7,830	519	4,064	84	658
03/26/00	7,780	566	4,403	102	794
03/27/00	8,280	560	4,637	88	729
03/28/00	7,750	528	4,092	58	450
03/29/00	9,390	495	4,648	74	695
03/30/00	7,710	397	3,061	84	648
03/31/00	7,450	362	2,697	122	909
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	259,630		94,739		19,638
Daily Avg.	8,375	367	3,056	76	633

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	738,500		359,626		55,320
YTD Mon. Tot. Avg.	246,167		119,875		18,440

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,116	492	3,959	75	608

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/00	7,620	331	2,522	114	869
04/02/00	8,040	385	3,095	104	836
04/03/00	7,620	429	3,269	82	625
04/04/00	8,350	584	4,876	214	1,787
04/05/00	8,500	495	4,208	114	969
04/06/00	6,550	518	3,393	46	301
04/07/00	7,510	507	3,808	110	826
04/08/00	8,400	402	3,377	78	655
04/09/00	7,500	956	7,170	98	735
04/10/00	7,500	490	3,675	86	645
04/11/00	9,470	489	4,631	118	1,117
04/12/00	5,130	442	2,267	92	472
04/13/00	6,670	303	2,021	108	720
04/14/00	8,400	307	2,579	94	790
04/15/00	9,110	470	4,282	74	674
04/16/00	8,100	482	3,904	100	810
04/17/00	8,600	513	4,412	118	1,015
04/18/00	8,740	480	4,195	98	857
04/19/00	9,690	516	5,000	34	329
04/20/00	8,160	359	2,929	46	375
04/21/00	8,600	569	4,893	64	550
04/22/00	8,860	616	5,458	68	602
04/23/00	8,150	564	4,597	68	554
04/24/00	8,490	627	5,323	74	628
04/25/00	9,110	594	5,411	58	528
04/26/00	7,910	624	4,936	100	791
04/27/00	8,080	542	4,379	52	420
04/28/00	8,570	567	4,859	64	548
04/29/00	7,760	599	4,648	60	466
04/30/00	7,950	522	4,150	78	620
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	243,140		124,268		21,117
Daily Avg.	8,105	509	4,142	87	704

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	981,640		476,724		76,437
YTD Mon. Tot. Avg.	245,410		119,181		19,109

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,113	489	3,945	78	632

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
05/01/00	8,280	539	4,463	74	613
05/02/00	8,200	584	4,789	98	804
05/03/00	7,600	588	4,469	104	790
05/04/00	8,000	207	1,656	68	544
05/05/00	8,890	569	5,058	82	729
05/06/00	8,490	516	4,381	28	238
05/07/00	7,610	533	4,056	86	654
05/08/00	8,370	591	4,947	98	820
05/09/00	8,410	461	3,877	58	488
05/10/00	8,440	563	4,752	80	675
05/11/00	8,880	461	4,094	72	639
05/12/00	9,110	483	4,400	68	619
05/13/00	8,320	489	4,068	70	582
05/14/00	8,390	506	4,245	86	722
05/15/00	9,410	486	4,573	70	659
05/16/00	9,360	446	4,175	70	655
05/17/00	6,720	347	2,332	106	712
05/18/00	10,860	361	3,920	40	434
05/19/00	9,700	387	3,754	88	854
05/20/00	8,500	443	3,766	100	850
05/21/00	7,190	378	2,718	100	719
05/22/00	8,630	433	3,737	94	811
05/23/00	8,720	530	4,622	102	889
05/24/00	8,700	475	4,133	88	766
05/25/00	8,200	527	4,321	70	574
05/26/00	8,440	531	4,482	92	776
05/27/00	9,380	565	5,300	58	544
05/28/00	8,410	543	4,567	42	353
05/29/00	8,650	641	5,545	70	606
05/30/00	8,320	560	4,659	78	649
05/31/00	8,030	454	3,646	94	755
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	264,210		125,856		20,524
Daily Avg.	8,523	490	4,177	79	662

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,245,850		602,580		96,962
YTD Mon. Tot. Avg.	249,170		120,516		19,392

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,195	489	3,968	78	638

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
06/01/00	8,610	511	4,400	108	930
06/02/00	9,010	513	4,622	52	469
06/03/00	8,990	496	4,459	32	288
06/04/00	8,230	466	3,835	84	691
06/05/00	8,530	472	4,026	84	717
06/06/00	8,260	473	3,907	98	809
06/07/00	8,120	523	4,247	158	1,283
06/08/00	5,780	307	1,774	66	381
06/09/00	9,470	405	3,835	72	682
06/10/00	8,420	434	3,654	66	556
06/11/00	7,310	514	3,757	76	556
06/12/00	8,200	448	3,674	104	853
06/13/00	8,200	533	4,371	100	820
06/14/00	8,540	638	5,449	108	922
06/15/00	8,180	604	4,941	80	654
06/16/00	8,200	566	4,641	76	623
06/17/00	9,060	569	5,155	52	471
06/18/00	7,090	587	4,162	60	425
06/19/00	8,560	661	5,658	74	633
06/20/00	8,810	569	5,013	106	934
06/21/00	7,980	444	3,543	120	958
06/22/00	8,860	639	5,662	86	762
06/23/00	8,830	701	6,190	72	636
06/24/00	8,810	623	5,489	24	211
06/25/00	7,000	565	3,955	44	308
06/26/00	8,200	479	3,928	70	574
06/27/00	8,350	502	4,192	48	401
06/28/00	8,470	578	4,896	48	407
06/29/00	8,330	463	3,857	156	1,299
06/30/00	9,920	507	5,029	126	1,250
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	250,320		132,320		20,503
Daily Avg.	8,344	526	4,411	82	683

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,496,170		734,900		117,465
YTD Mon. Tot. Avg.	249,362		122,483		19,577

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,220	495	4,042	79	646

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
07/01/00	8,800	417	3,670	106	933
07/02/00	8,500	449	3,817	210	1,785
07/03/00	9,500	458	4,351	74	703
07/04/00	8,470	424	3,591	52	440
07/05/00	8,630	451	3,892	70	604
07/06/00	9,700	419	4,064	80	776
07/07/00	8,420	490	4,126	54	455
07/08/00	7,880	495	3,901	106	835
07/09/00	8,000	594	4,752	102	816
07/10/00	10,390	514	5,340	72	748
07/11/00	5,910	450	2,660	118	697
07/12/00	9,590	320	3,069	82	786
07/13/00	9,870	410	4,047	72	711
07/14/00	9,260	525	4,862	76	704
07/15/00	8,150	554	4,515	76	619
07/16/00	8,100	565	4,577	78	632
07/17/00	10,210	649	6,626	88	898
07/18/00	11,200	561	6,283	70	784
07/19/00	12,430	460	5,718	124	1,541
07/20/00	8,640	467	4,035	74	639
07/21/00	8,780	472	4,144	82	720
07/22/00	8,090	572	4,627	62	502
07/23/00	8,550	538	4,600	72	616
07/24/00	9,150	510	4,667	86	787
07/25/00	8,300	547	4,540	104	863
07/26/00	9,880	436	4,308	84	830
07/27/00	8,600	450	3,870	90	774
07/28/00	10,010	462	4,625	106	1,061
07/29/00	8,510	458	3,898	70	596
07/30/00	8,840	444	3,925	74	654
07/31/00	8,590	438	3,762	86	739
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	278,950		134,859		24,249
Daily Avg.	8,998	484	4,350	87	782

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,775,120		869,759		141,713
YTD Mon. Tot. Avg.	253,589		124,251		20,245

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,331	494	4,086	80	665

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/00	8,230	486	4,000	68	560
08/02/00	7,850	479	3,760	104	816
08/03/00	8,100	551	4,463	106	859
08/04/00	8,520	451	3,843	80	682
08/05/00	8,550	468	4,001	82	701
08/06/00	8,190	541	4,431	80	655
08/07/00	8,260	596	4,923	144	1,189
08/08/00	8,450	556	4,698	64	541
08/09/00	8,430	454	3,827	30	253
08/10/00	8,610	376	3,237	88	758
08/11/00	8,890	215	1,911	142	1,262
08/12/00	8,710	400	3,484	42	366
08/13/00	7,770	254	1,974	66	513
08/14/00	8,120	215	1,746	82	666
08/15/00	8,280	665	5,506	96	795
08/16/00	8,350	584	4,876	40	334
08/17/00	8,060	560	4,514	70	564
08/18/00	8,880	555	4,928	90	799
08/19/00	8,960	400	3,584	76	681
08/20/00	7,740	402	3,111	100	774
08/21/00	7,790	524	4,082	110	857
08/22/00	9,960	514	5,119	68	677
08/23/00	7,240	432	3,128	92	666
08/24/00	8,650	433	3,745	72	623
08/25/00	8,600	409	3,517	88	757
08/26/00	8,170	308	2,516	76	621
08/27/00	9,460	545	5,156	94	889
08/28/00	8,370	561	4,696	28	234
08/29/00	8,280	581	4,811	120	994
08/30/00	9,090	459	4,172	36	327
08/31/00	8,570	608	5,211	144	1,234
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	261,130		122,971		21,647
Daily Avg.	8,424	470	3,967	83	698

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total	261,130		261,130		261,130
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,036,250		1,130,889		402,843
YTD Mon. Tot. Avg.	254,531		141,361		50,355

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.	8,424	470	3,967	83	698
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,343	491	4,071	80	669

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/00	8,010	558	4,470	84	673
09/02/00	8,780	575	5,049	104	913
09/03/00	8,880	431	3,827	58	515
09/04/00	7,660	518	3,968	64	490
09/05/00	9,170	601	5,511	68	624
09/06/00	8,410	642	5,399	62	521
09/07/00	8,260	579	4,783	106	876
09/08/00	8,040	513	4,125	82	659
09/09/00	8,260	563	4,650	68	562
09/10/00	8,480	517	4,384	34	288
09/11/00	8,900	477	4,245	80	712
09/12/00	9,570	406	3,885	76	727
09/13/00	7,610	412	3,135	118	898
09/14/00	8,580	466	3,998	92	789
09/15/00	7,850	518	4,066	84	659
09/16/00	8,540	514	4,390	70	598
09/17/00	8,570	524	4,491	96	823
09/18/00	8,370	527	4,411	112	937
09/19/00	8,670	516	4,474	96	832
09/20/00	8,150	480	3,912	100	815
09/21/00	8,410	507	4,264	112	942
09/22/00	10,010	409	4,094	80	801
09/23/00	9,870	482	4,757	44	434
09/24/00	8,980	622	5,586	62	557
09/25/00	8,700	633	5,507	64	557
09/26/00	8,500	623	5,296	50	425
09/27/00	8,470	574	4,862	84	711
09/28/00	8,880	624	5,541	52	462
09/29/00	10,270	598	6,141	70	719
09/30/00	8,950	592	5,298	76	680
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	259,800		138,519		20,200
Daily Avg.	8,660	533	4,617	78	673

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total	261,130		122,971		21,647
Sep Monthly Total	259,800		138,519		20,200
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,296,050		1,131,249		183,560
YTD Mon. Tot. Avg.	255,117		125,694		20,396

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.	8,424	470	3,967	83	698
Sep Daily Avg.	8,660	533	4,617	78	673
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,378	495	4,132	80	670

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/00	7,920	638	5,053	144	1,140
10/02/00	9,720	555	5,395	158	1,536
10/03/00	9,650	499	4,815	70	676
10/04/00	9,550	556	5,310	110	1,051
10/05/00	9,660	525	5,072	78	753
10/06/00	10,110	552	5,581	82	829
10/07/00	8,190	583	4,775	28	229
10/08/00	7,530	610	4,593	100	753
10/09/00	8,780	558	4,899	66	579
10/10/00	8,810	540	4,757	210	1,850
10/11/00	9,230	741	6,839	92	849
10/12/00	8,500	483	4,106	82	697
10/13/00	8,450	545	4,605	92	777
10/14/00	7,860	628	4,936	100	786
10/15/00	8,700	582	5,063	122	1,061
10/16/00	8,210	696	5,714	84	690
10/17/00	8,090	453	3,665	114	922
10/18/00	8,100	611	4,949	54	437
10/19/00	7,860	586	4,606	74	582
10/20/00	8,500	594	5,049	60	510
10/21/00	7,850	643	5,048	74	581
10/22/00	7,700	611	4,705	82	631
10/23/00	8,570	522	4,474	68	583
10/24/00	7,830	660	5,168	84	658
10/25/00	8,440	706	5,959	126	1,063
10/26/00	7,960	645	5,134	62	494
10/27/00	8,170	677	5,531	52	425
10/28/00	8,930	663	5,921	52	464
10/29/00	11,420	638	7,286	120	1,370
10/30/00	5,140	643	3,305	490	2,519
10/31/00	1,850	130	241	1,644	3,041
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	257,280		152,552		28,538
Daily Avg.	8,299	583	4,921	154	921

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250 320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total	261,130		122,971		21,647
Sep Monthly Total	259,800		138,644		20,200
Oct Monthly Total	257,280		152,552		28,538
Nov Monthly Total					
Dec Monthly Total					
YTD Total	2,553,330		1,283,927		212,098
YTD Mon. Tot. Avg.	255,333		128,393		21,210

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.	8,424	470	3,967	83	698
Sep Daily Avg.	8,660	534	4,621	78	673
Oct Daily Avg.	8,299	583	4,921	154	921
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	8,370	504	4,211	87	695

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/00	3,610	86	312	164	592
11/02/00	10,850	479	5,197	44	477
11/03/00	6,330	666	4,216	122	772
11/04/00	8,600	493	4,240	110	946
11/05/00	7,900	676	5,340	86	679
11/06/00	8,500	583	4,956	82	697
11/07/00	8,520	553	4,712	108	920
11/08/00	8,220	627	5,154	66	543
11/09/00	8,400	662	5,561	80	672
11/10/00	8,730	782	6,827	92	803
11/11/00	8,430	504	4,249	56	472
11/12/00	7,660	542	4,152	40	306
11/13/00	8,520	634	5,402	54	460
11/14/00	7,890	561	4,426	65	513
11/15/00	7,220	747	5,393	66	477
11/16/00	8,390	679	5,697	50	420
11/17/00	7,920	748	5,924	76	602
11/18/00	7,650	752	5,753	98	750
11/19/00	6,700	792	5,306	80	536
11/20/00	7,880	720	5,674	94	741
11/21/00	7,610	720	5,479	58	441
11/22/00	8,540	758	6,473	42	359
11/23/00	9,210	720	6,631	74	682
11/24/00	7,460	764	5,699	84	627
11/25/00	8,660	641	5,551	48	416
11/26/00	9,870	696	6,870	90	888
11/27/00	7,700	626	4,820	84	647
11/28/00	6,940	715	4,962	68	472
11/29/00	7,680	751	5,768	68	522
11/30/00	6,800	810	5,508	68	462
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	238,390		156,251		17,893
Daily Avg.	7,946	650	5,208	77	596

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total	261,130		122,971		21,647
Sep Monthly Total	259,800		138,644		20,200
Oct Monthly Total	257,280		152,552		28,538
Nov Monthly Total	238,390		156,251		17,893
Dec Monthly Total					
YTD Total	2,791,720		1,440,177		229,992
YTD Mon. Tot. Avg.	253,793		130,925		20,908

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.	8,424	470	3,967	83	698
Sep Daily Avg.	8,660	534	4,621	78	673
Oct Daily Avg.	8,299	583	4,921	154	921
Nov Daily Avg.	7,946	650	5,208	77	596
Dec Daily Avg.					
YTD Daily Avg.	8,332	518	4,302	87	686

FORT JAMES CORP. - BILLING					
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/00	7,110	865	6,150	58	412
12/02/00	6,540	658	4,303	60	392
12/03/00	6,400	851	5,446	64	410
12/04/00	6,950	836	5,810	112	778
12/05/00	8,360	491	4,105	98	819
12/06/00	7,070	777	5,493	106	749
12/07/00	5,220	834	4,353	102	532
12/08/00	6,700	844	5,655	112	750
12/09/00	8,700	901	7,839	106	922
12/10/00	8,000	628	5,024	82	656
12/11/00	6,250	702	4,388	130	813
12/12/00	6,020	735	4,425	80	482
12/13/00	5,370	843	4,527	70	376
12/14/00	8,500	709	6,027	168	1,428
12/15/00	7,840	735	5,762	70	549
12/16/00	9,760	656	6,403	98	956
12/17/00	8,530	657	5,604	88	751
12/18/00	6,880	885	6,089	130	894
12/19/00	6,910	766	5,293	76	525
12/20/00	6,310	867	5,471	120	757
12/21/00	6,110	885	5,407	138	843
12/22/00	4,460	650	2,899	77	343
12/23/00	6,190	839	5,193	108	669
12/24/00	5,900	765	4,514	136	802
12/25/00	3,990	392	1,564	260	1,037
12/26/00	8,070	514	4,148	84	678
12/27/00	6,780	715	4,848	104	705
12/28/00	7,360	766	5,638	77	567
12/29/00	7,530	713	5,369	84	633
12/30/00	9,350	637	5,956	146	1,365
12/31/00	8,580	703	6,032	84	721
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	217,740		159,734		22,316
Daily Avg.	7,024	736	5,153	104	720

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	242,500		140,152		17,635
Feb Monthly Total	236,370		124,735		18,047
Mar Monthly Total	259,630		94,739		19,638
Apr Monthly Total	243,140		117,098		21,117
May Monthly Total	264,210		125,856		20,524
Jun Monthly Total	250,320		132,320		20,503
Jul Monthly Total	278,950		134,859		24,249
Aug Monthly Total	261,130		122,971		21,647
Sep Monthly Total	259,800		138,644		20,200
Oct Monthly Total	257,280		152,552		28,538
Nov Monthly Total	238,390		156,251		17,893
Dec Monthly Total	217,740		159,734		22,316
YTD Total	3,009,460		1,599,911		252,308
YTD Mon. Tot. Avg.	250,788		133,326		21,026

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	7,823	578	4,521	72	569
Feb Daily Avg.	8,151	532	4,301	77	622
Mar Daily Avg.	8,375	367	3,056	76	633
Apr Daily Avg.	8,105	478	3,903	87	704
May Daily Avg.	8,523	491	4,060	79	662
Jun Daily Avg.	8,344	526	4,411	82	683
Jul Daily Avg.	8,998	484	4,350	87	782
Aug Daily Avg.	8,424	470	3,967	83	698
Sep Daily Avg.	8,660	534	4,621	78	673
Oct Daily Avg.	8,299	583	4,921	154	921
Nov Daily Avg.	7,946	650	5,208	77	596
Dec Daily Avg.	7,024	736	5,153	104	720
YTD Daily Avg.	8,223	536	4,373	88	689

2001

GRAPHICS PACKAGING - BILLING						
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
01/01/01	8,860	657	5,821	196	1,737	
01/02/01	9,720	675	6,561	74	719	
01/03/01	7,220	749	5,408	120	866	
01/04/01	6,540	680	4,447	122	798	
01/05/01	6,450	874	5,637	96	619	
01/06/01	6,320	835	5,277	80	506	
01/07/01	6,000	819	4,914	106	636	
01/08/01	6,400	874	5,594	136	870	
01/09/01	5,660	829	4,692	94	532	
01/10/01	6,000	847	5,082	92	552	
01/11/01	6,000	740	4,440	78	468	
01/12/01	6,350	848	5,385	144	914	
01/13/01	6,070	819	4,971	82	498	
01/14/01	6,870	760	5,221	106	728	
01/15/01	5,900	798	4,708	102	602	
01/16/01	7,700	739	5,690	96	739	
01/17/01	7,550	611	4,613	100	755	
01/18/01	7,090	582	4,126	110	780	
01/19/01	7,900	636	5,024	68	537	
01/20/01	6,100	698	4,258	82	500	
01/21/01	6,430	633	4,070	90	579	
01/22/01	6,800	730	4,964	82	558	
01/23/01	6,960	754	5,248	64	445	
01/24/01	6,600	744	4,910	94	620	
01/25/01	7,160	860	6,158	90	644	
01/26/01	7,040	833	5,864	116	817	
01/27/01	6,610	820	5,420	232	1,534	
01/28/01	8,060	867	6,988	106	854	
01/29/01	6,630	805	5,337	202	1,339	
01/30/01	8,430	827	6,972	82	691	
01/31/01	6,090	774	4,714	112	682	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	213,510		162,516		23,121	
Daily Avg.	6,887	765	5,242	108	746	

Graphics Packaging 2001	FLOW, m3	BOD, mg/L	BOD, kg	TSS, mg/L	TSS, kg	Comments
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total						
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	213,510		162,516		23,121	
YTD Monthly Avg.	213,510		162,516		23,121	

Graphics Packaging 2001	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.						
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6,887	765	5,242	108	746	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
02/01/01	7 290	755	5 504	92	671	
02/02/01	5,470	829	4 535	66	361	
02/03/01	7 270	791	5,751	68	494	
02/04/01	7 180	751	5 392	54	388	
02/05/01	6 000	825	4,950	94	564	
02/06/01	6,500	815	5,298	78	507	
02/07/01	6 440	884	5,693	104	670	
02/08/01	7,870	718	5,651	70	551	
02/09/01	5,550	795	4,412	44	244	
02/10/01	6,440	720	4,637	64	412	
02/11/01	7,800	765	5,967	102	796	
02/12/01	7,380	755	5,572	66	487	
02/13/01	7,370	818	6 029	108	796	
02/14/01	5,550	701	3,891	118	655	
02/15/01	6,270	705	4,420	86	539	
02/16/01	7,000	61	427	46	322	
02/17/01	5 600	732	4,099	58	325	
02/18/01	8,430	732	6,171	62	523	
02/19/01	4,800	648	3,110	38	182	
02/20/01	9,320	677	6,310	74	690	
02/21/01	6,850	702	4 809	64	438	
02/22/01	6,370	756	4,816	504	3 210	
02/23/01	5 240	800	4,192	64	335	
02/24/01	6,560	778	5,104	70	459	
02/25/01	7,310	862	6,301	64	468	
02/26/01	6,140	814	4,998	68	418	
02/27/01	6,070	832	5,050	66	401	
02/28/01	7,570	834	6,313	84	636	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	187,640		139,400		16,541	
Daily Avg.	6,701	745	4,979	88	591	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		159,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187 640		139,400		16,541	
Mar Monthly Total						
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	401,150		301,916		39,662	
YTD Monthly Avg.	200,575		150,958		19,831	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4 979	88	591	
Mar Daily Avg.						
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6 794	755	5,111	98	668	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
03/01/01	4 680	667	3 122	44	206	
03/02/01	5 480	635	3 480	52	285	
03/03/01	6 490	688	4 465	48	312	
03/04/01	7 100	847	6 014	70	497	
03/05/01	5 610	839	4 707	68	381	
03/06/01	5 760	858	4 942	136	783	
03/07/01	7 760	837	6 495	86	667	
03/08/01	6 020	727	4 377	100	602	
03/09/01	5 240	751	3 935	72	377	
03/10/01	5 690	759	4 319	66	376	
03/11/01	7 180	794	5 701	68	488	
03/12/01	6 030	730	4 402	116	699	
03/13/01	6 350	804	5 105	170	1,080	
03/14/01	5 570	759	4 228	34	189	
03/15/01	6 460	863	5 575	188	1 214	
03/16/01	5 660	862	4 879	60	340	
03/17/01	6 030	803	4 842	100	603	
03/18/01	6 150	816	5 018	46	283	
03/19/01	6 100	784	4 782	72	439	
03/20/01	7 190	828	5 953	62	446	
03/21/01	6 180	665	4 110	54	334	
03/22/01	6 620	495	3 277	100	662	
03/23/01	5 770	727	4 195	104	600	
03/24/01	6 570	863	5 670	62	407	
03/25/01	7 180	668	4 796	60	431	
03/26/01	6 500	57	371	62	403	
03/27/01	5 750	723	4 157	130	748	
03/28/01	5 830	662	3 859	58	338	
03/29/01	5 750	797	4 583	64	368	
03/30/01	6 530	620	4 049	314	2 050	
03/31/01	5 920	829	4 908	62	367	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	191,150		140,314		16,976	
Daily Avg.	6 166	734	4 526	88	548	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129 734		22 316	
Jan Monthly Total	213 510		162 516		23 121	
Feb Monthly Total	187 640		128 036		16 541	
Mar Monthly Total	191 150		140 314		16 976	
Apr Monthly Total						
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	592 300		430,866		56 638	
YTD Monthly Avg.	197 433		143 622		18 879	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7 024	736	5,153	104	720	
Jan Daily Avg.	6 887	765	5 242	108	746	
Feb Daily Avg.	6 701	738	4 573	88	591	
Mar Daily Avg.	6 166	734	4 526	88	548	
Apr Daily Avg.						
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6 585	746	4 780	95	628	

GRAPHICS PACKAGING - BILLING

DATE	FLOW m3	BOD mg/L	BOD kg/d	TSS mg/L	TSS kg/d	Comments
04/01/01	6 570	795	5 223	100	657	
04/02/01	5 540	688	3 812	68	377	
04/03/01	5 470	753	4 119	96	525	
04/04/01	5 810	788	4 578	64	372	
04/05/01	5 980	625	3 738	100	598	
04/06/01	7 220	679	4 902	114	823	
04/07/01	6 760	740	5 002	284	1 920	
04/08/01	5 720	672	3 844	98	561	
04/09/01	7 380	601	4 435	94	694	
04/10/01	5 090	598	3 044	114	580	
04/11/01	6 220	522	3 247	228	1 418	
04/12/01	4 650	563	2 618	126	586	
04/13/01	6 640	592	3 931	54	359	
04/14/01	6 200	619	3 838	106	657	
04/15/01	7 190	625	4 494	80	575	
04/16/01	6 060	658	3 987	84	509	
04/17/01	6 400	592	3 789	74	474	
04/18/01	5 910	660	3 901	116	686	
04/19/01	6 220	649	4 037	100	622	
04/20/01	5 470	717	3 922	96	525	
04/21/01	6 920	722	4 996	102	706	
04/22/01	6 380	800	5 104	166	1 059	
04/23/01	6 360	734	4 668	106	674	
04/24/01	5 380	612	3 293	118	635	
04/25/01	6 680	688	4 596	106	708	
04/26/01	6 210	706	4 384	134	832	
04/27/01	5 720	804	4 599	118	675	
04/28/01	6 020	824	4 960	98	590	
04/29/01	5 030	867	4 361	88	443	
04/30/01	5 550	603	3 347	202	1 121	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	182,750		124,768		20 959	
Daily Avg	6 092	683	4 159	114	699	

Graphics Packaging 2001	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217 740		129 734		22 316	
Jan Monthly Total	213 510		162 516		23 121	
Feb Monthly Total	187 640		139 400		16 541	
Mar Monthly Total	191 150		140 314		16 976	
Apr Monthly Total	182 750		124 768		20 959	
May Monthly Total						
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	775 050		566 998		77 597	
YTD Monthly Avg.	193 763		141 750		19 399	

← change to '00 & monthly Total w/ grey background

Graphics Packaging 2001	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7 024	736	5 153	104	720	
Jan Daily Avg.	6 887	765	5 242	108	746	
Feb Daily Avg.	6 701	745	4 979	88	591	
Mar Daily Avg.	6 166	734	4 526	88	548	
Apr Daily Avg.	6 092	683	4 159	114	699	
May Daily Avg.						
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg						
Sep Daily Avg						
Oct Daily Avg						
Nov Daily Avg						
Dec Daily Avg						
YTD Daily Avg.	6 462	732	4 727	100	646	

← change to '00 & daily avg w/ grey background

complete border

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
05/01/01	8,460	897	7,589	924	7,817	
05/02/01	4,770	639	3,048	108	515	
05/03/01	6 890	588	4,051	76	524	
05/04/01	6 530	768	5,015	78	509	
05/05/01	6,700	772	5,172	314	2,104	
05/06/01	5 650	723	4,085	130	735	
05/07/01	5 810	704	4,090	136	790	
05/08/01	5,770	556	3,208	158	912	
05/09/01	5,450	668	3,641	94	512	
05/10/01	3,560	736	2,620	100	356	
05/11/01	7,460	687	5,125	84	627	
05/12/01	5,510	556	3,064	114	628	
05/13/01	5,740	686	3,938	128	735	
05/14/01	5,270	658	3,468	124	653	
05/15/01	7,280	625	4,550	132	961	
05/16/01	6,090	551	3,356	163	994	
05/17/01	6,440	693	4,463	64	412	
05/18/01	6,450	804	5,186	72	464	
05/19/01	7,640	652	4,981	68	520	
05/20/01	7,620	625	4,763	50	381	
05/21/01	6,480	707	4,581	116	752	
05/22/01	6,330	857	5,425	70	443	
05/23/01	6,440	615	3 961	174	1,121	
05/24/01	8,310	886	7,363	1,620	13,462	
05/25/01	10,630	829	8,812	1 360	14,457	
05/26/01	6,600	501	3,307	100	660	
05/27/01	6,610	747	4,938	82	542	
05/28/01	6,520	707	4,610	70	456	
05/29/01	6,000	804	4,824	84	504	
05/30/01	5,970	748	4,466	112	669	
05/31/01	6,860	544	3,732	72	494	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	201,840		141,428		54,708	
Daily Avg.	6,511	695	4,562	225	1,765	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187,640		139,400		16,541	
Mar Monthly Total	191,150		140,314		16,976	
Apr Monthly Total	182,750		124,768		20 959	
May Monthly Total	201,840		141,428		54,708	
Jun Monthly Total						
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	976,890		708,427		132,306	
YTD Monthly Avg.	195,378		141,685		26,461	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6 887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4 979	88	591	
Mar Daily Avg.	6,166	734	4,526	88	548	
Apr Daily Avg.	6,092	683	4,159	114	699	
May Daily Avg.	6 511	695	4 562	225	1,765	
Jun Daily Avg.						
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6,472	724	4,694	125	870	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
06/01/01	6,900	803	5,541	88	607	
06/02/01	6,200	788	4,886	118	732	
06/03/01	5,370	708	3,802	128	687	
06/04/01	6,270	793	4,972	616	3,862	
06/05/01	6,570	826	5,427	820	5,387	
06/06/01	7,860	753	5,919	313	2,463	
06/07/01	6,210	499	3,099	156	969	
06/08/01	6,980	641	4,474	140	977	
06/09/01	6,860	741	5,083	168	1,152	
06/10/01	7,230	646	4,671	164	1,186	
06/11/01	6,060	585	3,545	108	654	
06/12/01	5,770	615	3,549	153	885	
06/13/01	7,200	535	3,852	150	1,080	
06/14/01	7,340	552	4,052	126	925	
06/15/01	7,440	560	4,166	124	923	
06/16/01	6,800	591	4,019	104	707	
06/17/01	7,700	650	5,005	242	1,863	
06/18/01	7,480	561	4,196	182	1,361	
06/19/01	7,470	664	4,960	202	1,509	
06/20/01	6,630	611	4,051	76	504	
06/21/01	6,590	557	3,671	94	619	
06/22/01	7,030	673	4,731	490	3,445	
06/23/01	6,600	749	4,943	124	818	
06/24/01	6,660	713	4,749	158	1,052	
06/25/01	6,810	746	5,080	358	2,438	
06/26/01	8,950	815	7,294	344	3,079	
06/27/01	9,490	659	6,254	190	1,803	
06/28/01	6,910	524	3,621	158	1,092	
06/29/01	6,730	717	4,825	228	1,534	
06/30/01	7,060	788	5,563	116	819	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	209,170		139,999		45,134	
Daily Avg.	6,972	669	4,667	215	1,504	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187,640		139,400		16,541	
Mar Monthly Total	191,150		140,314		16,976	
Apr Monthly Total	182,750		124,768		20,959	
May Monthly Total	201,840		141,428		54,708	
Jun Monthly Total	209,170		139,999		45,134	
Jul Monthly Total						
Aug Monthly Total						
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,186,060		848,426		177,439	
YTD Monthly Avg.	197,677		141,404		29,573	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4,979	88	591	
Mar Daily Avg.	6,166	734	4,526	88	548	
Apr Daily Avg.	6,092	683	4,159	114	699	
May Daily Avg.	6,511	695	4,562	225	1,765	
Jun Daily Avg.	6,972	669	4,667	215	1,504	
Jul Daily Avg.						
Aug Daily Avg.						
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6,555	715	4,689	140	975	

GRAPHICS PACKAGING - BILLING						
DATE	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
07/01/01	6,150	678	4,170	206	1,267	
07/02/01	6,200	673	4,173	124	769	
07/03/01	6,700	681	4,563	82	549	
07/04/01	7,100	698	4,956	74	525	
07/05/01	7,110	630	4,479	124	882	
07/06/01	6,340	702	4,451	84	533	
07/07/01	6,470	622	4,024	90	582	
07/08/01	6,890	811	5,588	100	689	
07/09/01	5,960	679	4,047	74	441	
07/10/01	7,360	859	6,322	92	677	
07/11/01	5,950	732	4,355	78	464	
07/12/01	6,410	699	4,481	88	564	
07/13/01	6,760	655	4,428	120	811	
07/14/01	6,690	700	4,683	108	723	
07/15/01	6,290	808	5,082	104	654	
07/16/01	7,080	765	5,416	110	779	
07/17/01	6,640	762	5,060	82	544	
07/18/01	7,100	724	5,140	46	327	
07/19/01	9,880	762	7,529	88	869	
07/20/01	10,790	634	6,841	80	863	
07/21/01	7,750	588	4,557	84	651	
07/22/01	7,270	867	6,303	72	523	
07/23/01	6,850	737	5,048	74	507	
07/24/01	4,860	778	3,781	66	321	
07/25/01	7,850	726	5,699	108	848	
07/26/01	6,330	626	3,963	220	1,393	
07/27/01	5,780	609	3,520	122	705	
07/28/01	6,420	600	3,852	84	539	
07/29/01	5,760	740	4,262	104	599	
07/30/01	5,940	755	4,485	60	356	
07/31/01	6,010	930	5,589	98	589	
	FLOW, m3	BOD, mg/L	BOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	**210,690**		**150,847**		**20,544**	
Daily Avg.	6,796	717	4,866	98	663	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
08/01/01	5,650	857	4,842	122	689	
08/02/01	5,960	761	4,536	74	441	
08/03/01	5,410	737	3,987	86	465	
08/04/01	5,870	788	4,626	86	505	
08/05/01	6,480	898	5,819	100	648	
08/06/01	5,850	732	4,282	110	644	
08/07/01	5,140	721	3,706	114	586	
08/08/01	7,840	705	5,527	162	1,270	
08/09/01	6,420	692	4,443	66	424	
08/10/01	5,560	749	4,164	88	489	
08/11/01	6,110	736	4,497	100	611	
08/12/01	6,000	702	4,212	102	612	
08/13/01	5,590	641	3,583	116	648	
08/14/01	6,400	749	4,794	164	1,050	
08/15/01	5,650	717	4,051	134	757	USED JULY AVE CBOD
08/16/01	6,100	608	3,709	124	756	
08/17/01	5,980	614	3,672	140	837	
08/18/01	5,900	637	3,758	178	1,050	
08/19/01	6,110	642	3,923	116	709	
08/20/01	5,970	573	3,421	120	716	
08/21/01	8,150	715	5,827	90	734	
08/22/01	4,960	731	3,626	66	327	
08/23/01	6,780	735	4,983	66	447	
08/24/01	6,010	611	3,672	64	385	
08/25/01	6,640	762	5,060	78	518	
08/26/01	6,690	804	5,379	78	522	
08/27/01	7,200	717	5,162	80	576	USED JULY AVE CBOD
08/28/01	6,210	695	4,316	106	658	
08/29/01	6,460	752	4,858	82	530	
08/30/01	5,630	805	4,532	86	484	
08/31/01	6,120	688	4,211	76	465	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	190,840		137,177		19,554	
Daily Avg.	6,156	719	4,425	102	631	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187,640		139,400		16,541	
Mar Monthly Total	191,150		140,314		16,976	
Apr Monthly Total	182,750		124,768		20,959	
May Monthly Total	201,840		141,428		54,708	
Jun Monthly Total	209,170		139,999		45,134	
Jul Monthly Total	210,690		150,847		20,544	
Aug Monthly Total	190,840		137,177		19,554	
Sep Monthly Total						
Oct Monthly Total						
Nov Monthly Total						
Dec Monthly Total						
YTD Total	1,587,590		1,136,449		217,538	
YTD Monthly Avg.	198,449		142,056		27,192	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4,979	88	591	
Mar Daily Avg.	6,166	734	4,526	88	548	
Apr Daily Avg.	6,092	683	4,159	114	699	
May Daily Avg.	6,511	695	4,562	225	1,765	
Jun Daily Avg.	6,972	669	4,667	215	1,504	
Jul Daily Avg.	6,796	717	4,866	98	663	
Aug Daily Avg.	6,156	719	4,425	102	631	
Sep Daily Avg.						
Oct Daily Avg.						
Nov Daily Avg.						
Dec Daily Avg.						
YTD Daily Avg.	6,535	716	4,678	130	893	

GRAPHICS PACKAGING - BILLING						
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
09/01/01	6,410	796	5,102	72	462	
09/02/01	6,250	801	5,006	70	438	
09/03/01	6,680	792	5,291	94	628	
09/04/01	4,810	838	4,031	72	346	
09/05/01	6,170	749	4,621	146	901	
09/06/01	6,500	659	4,284	108	702	
09/07/01	5,720	491	2,809	88	503	
09/08/01	6,300	531	3,345	164	1,033	
09/09/01	6,960	706	4,914	102	710	
09/10/01	5,960	902	5,376	110	656	
09/11/01	5,810	879	5,107	100	581	
09/12/01	5,310	719	3,818	124	658	
09/13/01	5,590	894	4,997	90	503	
09/14/01	5,700	941	5,364	112	638	
09/15/01	6,260	1,050	6,573	68	426	
09/16/01	5,500	968	5,324	82	451	
09/17/01	5,910	1,000	5,910	114	674	
09/18/01	5,710	627	3,580	104	594	
09/19/01	7,200	535	3,852	104	749	
09/20/01	6,910	522	3,607	112	774	
09/21/01	5,140	600	3,084	86	442	
09/22/01	5,070	774	3,924	80	406	
09/23/01	6,410	1,007	6,455	120	769	
09/24/01	6,180	976	6,032	202	1,248	
09/25/01	5,220	930	4,855	94	491	
09/26/01	6,070	979	5,943	139	844	
09/27/01	5,860	725	4,249	117	686	
09/28/01	5,560	672	3,736	91	506	
09/29/01	5,750	881	5,066	120	690	
09/30/01	7,100	1,080	7,668	133	944	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	**180,020**		**143,921**		**19,452**	
Daily Avg.	6,001	801	4,797	107	648	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
10/01/01	6,160	646	3,979	120	739	
10/02/01	6,580	903	5,942	104	684	
10/03/01	7,880	603	4,752	94	741	
10/04/01	7,410	512	3,794	64	474	
10/05/01	5,030	796	4,004	78	392	
10/06/01	5,370	861	4,624	110	591	
10/07/01	7,320	914	6,690	140	1,025	
10/08/01	5,000	878	4,390	128	640	
10/09/01	5,100	892	4,549	220	1,122	
10/10/01	5,150	1,040	5,356	164	845	
10/11/01	5,550	1,090	6,050	160	888	
10/12/01	6,250	1,040	6,500	232	1,450	
10/13/01	5,330	1,170	6,236	186	991	
10/14/01	5,130	1,050	5,387	384	1,970	
10/15/01	6,730	1,080	7,268	120	808	
10/16/01	5,920	807	4,777	206	1,220	
10/17/01	5,300	909	4,818	120	636	
10/18/01	7,140	742	5,298	115	821	
10/19/01	4,940	784	3,873	138	682	
10/20/01	5,560	771	4,287	109	606	
10/21/01	6,240	749	4,674	115	718	
10/22/01	5,300	881	4,669	107	567	
10/23/01	5,980	894	5,346	72	431	
10/24/01	5,680	1,080	6,134	132	750	
10/25/01	5,720	843	4,822	45	257	
10/26/01	5,210	887	4,621	48	250	
10/27/01	5,580	938	5,234	79	441	
10/28/01	4,780	990	4,732	67	320	
10/29/01	5,060	1,000	5,060	64	324	
10/30/01	5,800	1,020	5,916	72	418	
10/31/01	6,110	1,030	6,293	112	684	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	180,310		160,075		22,484	
Daily Avg.	5,816	897	5,164	126	725	

GRAPHICS PACKAGING - BILLING						
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
11/01/01	7,340	745	5,468	104	763	
11/02/01	6,120	631	3,862	76	465	
11/03/01	5,220	1,270	6,629	48	251	
11/04/01	6,050	882	5,336	73	442	
11/05/01	5,480	1,100	6,028	96	526	
11/06/01	6,440	888	5,719	108	696	
11/07/01	6,180	766	4,734	133	822	
11/08/01	6,020	880	5,298	94	566	
11/09/01	5,620	899	5,052	78	438	
11/10/01	5,460	1,100	6,006	107	584	
11/11/01	5,450	1,010	5,505	67	365	
11/12/01	5,720	1,030	5,892	80	458	
11/13/01	4,860	1,000	4,860	80	389	
11/14/01	5,800	1,120	6,496	80	464	
11/15/01	5,340	978	5,223	112	598	
11/16/01	5,200	1,040	5,408	132	686	
11/17/01	5,660	1,497	8,473	102	577	
11/18/01	5,510	939	5,174	73	402	
11/19/01	6,350	1,050	6,668	80	508	
11/20/01	5,010	365	1,829	100	501	
11/21/01	5,210	905	4,715	73	380	
11/22/01	5,840	772	4,508	120	701	
11/23/01	7,110	812	5,773	108	768	
11/24/01	5,310	965	5,124	80	425	
11/25/01	5,370	934	5,016	137	736	
11/26/01	6,420	846	5,431	163	1,046	
11/27/01	4,890	1,120	5,477	92	450	
11/28/01	6,270	830	5,204	118	740	
11/29/01	5,440	900	4,896	70	381	
11/30/01	6,410	928	5,948	120	769	
	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	**173,100**		**161,751**		**16,897**	
Daily Avg.	5,770	940	5,392	97	563	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187,640		139,400		16,541	
Mar Monthly Total	191,150		140,314		16,976	
Apr Monthly Total	182,750		124,768		20,959	
May Monthly Total	201,840		141,428		54,708	
Jun Monthly Total	209,170		139,999		45,134	
Jul Monthly Total	210,690		150,847		20,544	
Aug Monthly Total	190,840		137,177		19,554	
Sep Monthly Total	180,020		143,921		19,452	
Oct Monthly Total	180,310		160,075		22,484	
Nov Monthly Total	173,100		161,751		16,897	
Dec Monthly Total						
YTD Total	2,121,020		1,602,196		276,370	
YTD Monthly Avg.	192,820		145,654		25,125	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4,979	88	591	
Mar Daily Avg.	6,166	734	4,526	88	548	
Apr Daily Avg.	6,092	683	4,159	114	699	
May Daily Avg.	6,511	695	4,562	225	1,765	
Jun Daily Avg.	6,972	669	4,667	215	1,504	
Jul Daily Avg.	6,796	717	4,866	98	663	
Aug Daily Avg.	6,156	719	4,425	102	631	
Sep Daily Avg.	6,001	801	4,797	107	648	
Oct Daily Avg	5,816	897	5,164	126	725	
Nov Daily Avg.	5,770	940	5,392	97	563	
Dec Daily Avg.						
YTD Daily Avg.	6,352	760	4,798	124	826	

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/l	CBOD, kg/d	TSS, mg/L	TSS, kg/d	Comments
12/01/01	5,160	850	4,386	107	552	
12/02/01	4,950	1,020	5,049	160	792	
12/03/01	4,930	928	4,575	142	700	
12/04/01	6,950	1,200	8,340	118	820	
12/05/01	3,960	768	3,041	114	451	
12/06/01	5,850	779	4,557	106	620	
12/07/01	5,440	898	4,885	38	207	
12/08/01	4,970	1,100	5,467	154	765	
12/09/01	5,230	991	5,183	88	460	
12/10/01	5,510	1,310	7,218	178	981	
12/11/01	6,000	957	5,742	108	648	
12/12/01	5,340	1,140	6,088	121	646	
12/13/01	5,660	856	4,845	124	702	
12/14/01	6,270	999	6,264	82	514	
12/15/01	5,830	1,150	6,705	116	676	
12/16/01	5,860	973	5,702	58	340	
12/17/01	5,770	909	5,245	84	485	
12/18/01	5,810	1,020	5,926	60	349	
12/19/01	5,330	1,100	5,863	50	267	
12/20/01	6,210	953	5,918	91	565	
12/21/01	5,640	989	5,578	64	361	
12/22/01	5,630	1,030	5,799	198	1,115	
12/23/01	5,720	495	2,831	46	263	
12/24/01	5,360	720	3,859	66	354	
12/25/01	4,110	149	612	50	206	
12/26/01	5,800	439	2,546	100	580	
12/27/01	5,180	495	2,564	72	373	
12/28/01	5,630	770	4,335	60	338	
12/29/01	5,160	803	4,143	35	181	
12/30/01	4,560	1,280	5,837	44	201	
12/31/01	7,320	960	7,027	50	366	
	FLOW, m3	CBOD, mg/l	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Monthly Total	**171,140**		**156,131**		**15,876**	
Daily Avg.	5,521	904	5,036	93	512	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/l	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Monthly Total	217,740		129,734		22,316	
Jan Monthly Total	213,510		162,516		23,121	
Feb Monthly Total	187,640		139,400		16,541	
Mar Monthly Total	191,150		140,314		16,976	
Apr Monthly Total	182,750		124,768		20,959	
May Monthly Total	201,840		141,428		54,708	
Jun Monthly Total	209,170		139,999		45,134	
Jul Monthly Total	210,690		150,847		20,544	
Aug Monthly Total	190,840		137,177		19,554	
Sep Monthly Total	180,020		143,921		19,452	
Oct Monthly Total	180,310		160,075		22,484	
Nov Monthly Total	173,100		161,751		16,897	
Dec Monthly Total	171,140		156,131		15,876	
YTD Total	2,292,160		1,758,328		292,246	
YTD Monthly Avg.	191,013		146,527		24,354	

Graphics Packaging 2001	FLOW, m3	CBOD, mg/l	CBOD, kg/d	TSS, mg/L	TSS, kg	Comments
Dec - 2000 Daily Avg.	7,024	736	5,153	104	720	
Jan Daily Avg.	6,887	765	5,242	108	746	
Feb Daily Avg.	6,701	745	4,979	88	591	
Mar Daily Avg.	6,166	734	4,526	88	548	
Apr Daily Avg.	6,092	683	4,159	114	699	
May Daily Avg.	6,511	695	4,562	225	1,765	
Jun Daily Avg.	6,972	669	4,667	215	1,504	
Jul Daily Avg.	6,796	717	4,866	98	663	
Aug Daily Avg.	6,156	719	4,425	102	631	
Sep Daily Avg.	6,001	801	4,797	107	648	
Oct Daily Avg.	5,816	897	5,164	126	725	
Nov Daily Avg.	5,770	940	5,392	97	563	
Dec Daily Avg.	5,521	904	5,036	93	512	
YTD Daily Avg.	6,283	772	4,818	122	800	

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January 2002

GRAPHICS PACKAGING - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/02	5,780	770	4,451	56	324
01/02/02	6,600	976	6,442	45	297
01/03/02	7,050	820	5,781	44	310
01/04/02	7,400	994	7,356	62	459
01/05/02	6,440	714	4,598	84	538
01/06/02	7,170	882	6,324	56	402
01/07/02	6,290	812	5,107	118	742
01/08/02	6,060	811	4,915	78	473
01/09/02	5,470	350	1,915	120	656
01/10/02	5,880	862	5,069	124	729
01/11/02	5,960	850	5,066	180	1,073
01/12/02	5,550	988	5,483	58	322
01/13/02	6,530	753	4,917	72	470
01/14/02	6,730	925	6,225	94	633
01/15/02	8,730	655	5,718	114	995
01/16/02	6,150	643	3,954	74	455
01/17/02	5,450	596	3,248	50	273
01/18/02	6,830	751	5,129	48	328
01/19/02	6,290	813	5,114	142	893
01/20/02	6,620	667	4,416	82	543
01/21/02	5,990	749	4,487	98	587
01/22/02	6,810	845	5,754	58	395
01/23/02	6,270	765	4,797	77	483
01/24/02	6,050	718	4,344	50	303
01/25/02	6,030	797	4,806	102	615
01/26/02	6,330	748	4,735	78	494
01/27/02	6,010	679	4,081	52	313
01/28/02	6,330	761	4,817	44	279
01/29/02	6,350	884	5,613	42	267
01/30/02	6,040	655	3,956	51	308
01/31/02	5,910	849	5,018	120	709
	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Monthly Total	197,100		153,635		15,665
Daily Avg.	6,358	777	4,956	80	505

	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total					
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	197,100				15,665
YTD Mon. Tot. Avg.	197,100				15,665

	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.					
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6,358	777	4,956	80	505

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/02	6,010	812	4,880	74	445
02/02/02	7,000	919	6,433	60	420
02/03/02	7,310	618	4,518	78	570
02/04/02	5,520	816	4,504	69	378
02/05/02	5,270	1,090	5,744	44	232
02/06/02	7,250	1,010	7,323	89	645
02/07/02	5,400	738	3,985	58	313
02/08/02	6,360	767	4,878	58	369
02/09/02	5,620	799	4,490	38	214
02/10/02	5,630	939	5,287	70	394
02/11/02	7,050	862	6,077	49	345
02/12/02	5,520	670	3,698	82	453
02/13/02	5,380	843	4,535	89	479
02/14/02	5,450	843	4,594	85	463
02/15/02	5,800	774	4,489	104	603
02/16/02	5,580	1,120	6,250	88	491
02/17/02	6,820	1,240	8,457	126	859
02/18/02	6,170	1,070	6,602	198	1,222
02/19/02	6,570	830	5,453	88	578
02/20/02	4,920	948	4,664	76	374
02/21/02	6,520	764	4,981	44	287
02/22/02	5,950	790	4,701	92	547
02/23/02	6,550	894	5,856	60	393
02/24/02	5,870	919	5,395	202	1,186
02/25/02	6,330	901	5,703	118	747
02/26/02	6,760	954	6,449	94	635
02/27/02	5,880	815	4,792	89	523
02/28/02	6,440	1,060	6,826	62	399
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	170,930		151,565		14,565
Daily Avg.	6,105	886	5,413	85	520

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	368,030		305,200		30,230
YTD Mon. Tot. Avg.	184,015		152,600		15,115

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6,231	831	5,184	82	513

FORT JAMES CORP. - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/02	5,630	586	3,299	41	231
03/02/02	5,940	1,210	7,187	46	273
03/03/02	6,850	816	5,590	50	343
03/04/02	6,590	956	6,300	56	369
03/05/02	6,480	764	4,951	86	557
03/06/02	6,130	694	4,254	82	503
03/07/02	6,500	948	6,162	86	559
03/08/02	5,480	691	3,787	39	214
03/09/02	4,930	523	2,578	32	158
03/10/02	6,560	610	4,002	72	472
03/11/02	6,250	835	5,219	100	625
03/12/02	6,680	956	6,386	116	775
03/13/02	5,280	582	3,073	71	375
03/14/02	5,870	597	3,504	141	828
03/15/02	4,380	593	2,597	64	280
03/16/02	4,810	901	4,334	109	524
03/17/02	4,000	839	3,356	102	408
03/18/02	6,340	1,250	7,925	153	970
03/19/02	3,920	554	2,172	813	3,187
03/20/02	1,610	1,440	2,318	259	417
03/21/02	4,270	133	568	90	384
03/22/02	4,495	234	1,052	14	63
03/23/02	4,495	363	1,632	69	310
03/24/02	4,250	356	1,513	36	153
03/25/02	5,740	390	2,239	34	195
03/26/02	6,490	533	3,459	38	247
03/27/02	5,970	814	4,860	56	334
03/28/02	5,150	811	4,177	60	309
03/29/02	6,350	824	5,232	44	279
03/30/02	5,410	1,020	5,518	46	249
03/31/02	5,020	903	4,533	69	346
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	167,870		123,776		14,937
Daily Avg.	5,415	733	3,993	99	482

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	535,900		428,976		45,167
YTD Mon. Tot. Avg.	178,633		142,992		15,056

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,959	799	4,787	88	502

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/02	5,570	1,020	5,681	65	362
04/02/02	5,930	773	4,584	76	451
04/03/02	5,650	874	4,938	104	588
04/04/02	4,900	837	4,101	61	299
04/05/02	6,190	856	5,299	75	464
04/06/02	5,350	689	3,686	67	358
04/07/02	5,000	848	4,240	101	505
04/08/02	7,280	803	5,846	143	1,041
04/09/02	5,640	706	3,982	76	429
04/10/02	5,710	829	4,734	96	548
04/11/02	5,650	788	4,452	86	486
04/12/02	5,850	685	4,007	53	310
04/13/02	6,090	939	5,719	57	347
04/14/02	5,960	937	5,585	128	763
04/15/02	5,920	921	5,452	83	491
04/16/02	5,980	733	4,383	139	831
04/17/02	5,790	721	4,175	94	544
04/18/02	5,510	828	4,562	86	474
04/19/02	5,520	905	4,996	88	486
04/20/02	5,510	894	4,926	75	413
04/21/02	6,080	958	5,825	85	517
04/22/02	5,830	889	5,183	73	423
04/23/02	6,260	765	4,789	122	764
04/24/02	4,850	1,010	4,899	71	342
04/25/02	5,770	762	4,397	64	366
04/26/02	5,950	900	5,355	62	369
04/27/02	5,420	873	4,732	83	447
04/28/02	6,060	814	4,933	72	436
04/29/02	4,660	828	3,858	122	566
04/30/02	7,350	816	5,998	71	518
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	173,230		145,315		14,939
Daily Avg.	5,774	840	4,844	86	498

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	167,870		123,776		14,937
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	706,070		546,502		60,478
YTD Mon. Tot. Avg.	176,518		136,625		15,120

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	5,415	733	3,993	99	482
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,741	771	4,446	91	492

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
05/01/02	3,220	746	2,402	68	219
05/02/02	6,550	735	4,814	63	413
05/03/02	5,850	1,030	6,026	74	433
05/04/02	5,510	840	4,628	84	463
05/05/02	5,460	917	5,007	98	535
05/06/02	5,630	903	5,084	98	549
05/07/02	6,040	856	5,170	115	695
05/08/02	6,300	885	5,576	124	778
05/09/02	5,460	835	4,559	98	535
05/10/02	6,430	953	6,128	57	363
05/11/02	5,850	852	4,984	108	632
05/12/02	5,890	939	5,531	257	1,514
05/13/02	5,650	1,050	5,933	70	393
05/14/02	6,330	773	4,893	97	614
05/15/02	6,040	983	5,937	52	311
05/16/02	5,620	840	4,721	54	303
05/17/02	6,010	731	4,393	56	334
05/18/02	8,060	839	6,762	51	407
05/19/02	8,520	566	4,822	66	558
05/20/02	6,410	659	4,224	53	340
05/21/02	6,510	710	4,622	74	478
05/22/02	5,680	848	4,817	85	483
05/23/02	6,000	969	5,814	55	330
05/24/02	4,930	905	4,462	88	434
05/25/02	5,740	885	5,080	114	654
05/26/02	5,200	720	3,744	108	562
05/27/02	6,590	917	6,043	76	498
05/28/02	6,730	842	5,667	83	555
05/29/02	4,950	853	4,222	74	364
05/30/02	5,500	1,050	5,775	78	429
05/31/02	5,040	1,130	5,695	86	433
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	183,700		157,535		15,608
Daily Avg.	5,926	863	5,082	86	503

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	892,830		731,825		75,714
YTD Mon. Tot. Avg.	178,566		146,365		15,143

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,916	820	4,857	87	502

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
06/01/02	5,180	999	5,175	68	350
06/02/02	5,250	921	4,835	67	349
06/03/02	5,360	756	4,052	69	370
06/04/02	7,360	744	5,476	66	486
06/05/02	5,280	561	2,962	83	438
06/06/02	6,820	587	4,003	76	515
06/07/02	6,000	683	4,098	68	408
06/08/02	6,000	772	4,632	54	324
06/09/02	5,650	907	5,125	48	271
06/10/02	4,650	885	4,115	105	488
06/11/02	7,060	103	727	114	805
06/12/02	4,830	978	4,724	72	348
06/13/02	5,780	777	4,491	74	425
06/14/02	5,410	1,060	5,735	93	503
06/15/02	5,710	861	4,916	120	682
06/16/02	5,330	901	4,802	98	520
06/17/02	5,000	817	4,085	82	410
06/18/02	4,970	883	4,389	111	552
06/19/02	5,930	906	5,373	99	587
06/20/02	5,600	1,300	7,280	77	431
06/21/02	5,730	1,020	5,845	108	619
06/22/02	4,950	885	4,381	69	342
06/23/02	6,180	767	4,740	64	396
06/24/02	6,800	781	5,311	117	796
06/25/02	5,690	637	3,625	59	336
06/26/02	5,390	802	4,323	12	62
06/27/02	6,260	820	5,133	78	488
06/28/02	5,730	812	4,653	157	897
06/29/02	4,890	734	3,589	77	374
06/30/02	6,200	853	5,289	61	375
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	170,990		137,882		13,945
Daily Avg.	5,700	817	4,596	81	465

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,063,820		869,707		89,659
YTD Mon. Tot. Avg.	177,303		144,951		14,943

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,926	863	5,082	86	503
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,905	823	4,854	86	497

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
07/01/02	5,740	737	4,230	134	766
07/02/02	5,640	929	5,240	58	324
07/03/02	4,550	943	4,291	161	730
07/04/02	6,550	885	5,797	113	740
07/05/02	5,900	987	5,823	60	351
07/06/02	5,390	876	4,722	91	488
07/07/02	5,230	1,030	5,387	156	813
07/08/02	4,820	885	4,266	128	615
07/09/02	7,060	738	5,210	53	371
07/10/02	5,890	809	4,765	59	345
07/11/02	6,360	671	4,268	79	502
07/12/02	6,070	874	5,305	90	543
07/13/02	5,990	791	4,738	84	503
07/14/02	6,100	782	4,770	72	439
07/15/02	5,480	764	4,187	66	359
07/16/02	5,200	708	3,682	66	343
07/17/02	8,090	566	4,579	30	239
07/18/02	6,660	547	3,643	43	288
07/19/02	6,170	599	3,696	58	358
07/20/02	6,270	620	3,887	79	492
07/21/02	5,610	702	3,938	72	404
07/22/02	6,920	757	5,238	64	443
07/23/02	6,390	788	5,035	58	371
07/24/02	5,740	755	4,334	55	316
07/25/02	6,270	635	3,981	101	630
07/26/02	6,520	723	4,714	38	245
07/27/02	6,090	817	4,976	81	493
07/28/02	6,090	665	4,050	118	719
07/29/02	5,920	541	3,203	121	716
07/30/02	5,470	538	2,943	77	418
07/31/02	3,670	657	2,411	157	574
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	183,850		137,308		14,938
Daily Avg.	5,931	752	4,429	84	482

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14,938
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,247,670		1,007,015		104,597
YTD Mon. Tot. Avg.	178,239		143,859		14,942

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,887	810	4,759	86	494

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
08/01/02	6,450	664	4,283	74	474
08/02/02	5,150	587	3,023	53	270
08/03/02	4,450	621	2,763	76	338
08/04/02	6,530	561	3,663	68	441
08/05/02	6,580	446	2,935	125	819
08/06/02	6,250	441	2,756	90	559
08/07/02	5,900	512	3,021	60	354
08/08/02	4,700	593	2,787	77	362
08/09/02	4,150	602	2,498	64	264
08/10/02	5,480	556	3,047	77	419
08/11/02	4,910	608	2,985	104	508
08/12/02	5,620	572	3,215	92	514
08/13/02	5,320	566	3,011	135	718
08/14/02	4,840	544	2,633	61	295
08/15/02	4,250	557	2,367	63	268
08/16/02	4,880	667	3,255	118	576
08/17/02	4,520	610	2,757	101	454
08/18/02	4,610	790	3,642	82	378
08/19/02	4,760	715	3,403	84	400
08/20/02	3,600	674	2,426	86	308
08/21/02	4,120	683	2,814	104	428
08/22/02	4,570	562	2,568	88	402
08/23/02	5,890	502	2,957	50	292
08/24/02	4,230	672	2,843	68	288
08/25/02	4,440	760	3,374	59	260
08/26/02	4,150	720	2,988	64	266
08/27/02	5,060	765	3,871	93	468
08/28/02	3,700	674	2,494	96	353
08/29/02	4,310	832	3,586	81	347
08/30/02	5,420	917	4,970	85	458
08/31/02	4,350	578	2,514	48	209
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	153,190		95,451		12,490
Daily Avg.	4,942	631	3,079	81	403

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14,938
Aug Monthly Total	153,190		95,451		12,490
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,400,860		1,102,466		117,087
YTD Mon. Tot. Avg.	175,108		137,808		14,636

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.	4,942	631	3,079	81	403
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,769	787	4,549	85	482

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
09/01/02	3,850	724	2,787	54	208
09/02/02	5,150	790	4,069	60	309
09/03/02	4,280	854	3,655	61	261
09/04/02	4,140	820	3,395	50	205
09/05/02	4,650	827	3,846	58	270
09/06/02	5,070	1,220	6,185	102	515
09/07/02	4,370	751	3,282	59	258
09/08/02	4,370	773	3,378	88	385
09/09/02	4,460	659	2,939	74	328
09/10/02	4,420	762	3,368	66	290
09/11/02	3,880	873	3,387	85	328
09/12/02	5,670	864	4,899	86	485
09/13/02	4,660	975	4,544	85	394
09/14/02	4,840	830	4,017	69	334
09/15/02	5,890	837	4,930	130	766
09/16/02	6,490	1,041	6,756	98	633
09/17/02	5,960	1,010	6,020	73	435
09/18/02	6,060	768	4,654	83	503
09/19/02	6,010	856	5,145	84	502
09/20/02	5,760	1,020	5,875	93	536
09/21/02	5,720	951	5,440	117	666
09/22/02	5,580	956	5,334	131	731
09/23/02	4,550	892	4,059	122	555
09/24/02	6,090	922	5,615	84	512
09/25/02	6,420	902	5,791	94	603
09/26/02	6,030	1,390	8,382	62	371
09/27/02	5,730	1,440	8,251	75	427
09/28/02	6,440	891	5,738	67	431
09/29/02	6,340	704	4,463	86	545
09/30/02	5 630	879	4,949	68	380
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	158,510		145,152		13,163
Daily Avg.	5,284	906	4,838	82	439

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14,938
Aug Monthly Total	153,190		95,451		12,490
Sep Monthly Total	158,510		145,152		13,163
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,559,370		1,247,618		130,251
YTD Mon. Tot. Avg.	173,263		138,624		14,472

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.	4,942	631	3,079	81	403
Sep Daily Avg.	5,284	906	4,838	82	439
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5 715	801	4,581	85	477

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
10/01/02	6,520	977	6,370	78	509
10/02/02	5,900	943	5,564	73	431
10/03/02	6,280	831	5,219	84	528
10/04/02	6,270	789	4,947	111	693
10/05/02	5,770	838	4,835	43	245
10/06/02	6,010	1,070	6,431	80	481
10/07/02	7,000	834	5,838	145	1,012
10/08/02	5,170	964	4,984	77	398
10/09/02	6,130	495	3,034	23	141
10/10/02	4,810	532	2,559	113	544
10/11/02	7,230	575	4,157	85	615
10/12/02	5,610	594	3,332	116	648
10/13/02	6,160	780	4,805	88	542
10/14/02	5,110	832	4,252	196	1,002
10/15/02	6,200	1,560	9,672	106	657
10/16/02	5,340	1,650	8,811	162	862
10/17/02	6,080	924	5,618	79	480
10/18/02	6,130	950	5,824	87	530
10/19/02	5,450	734	4,000	146	793
10/20/02	5,650	822	4,644	100	562
10/21/02	5,440	1,050	5,712	106	574
10/22/02	6,040	802	4,844	83	501
10/23/02	5,360	839	4,497	79	423
10/24/02	6,190	750	4,643	97	600
10/25/02	5,710	839	4,791	78	445
10/26/02	5,380	596	3,206	76	409
10/27/02	6,650	855	5,686	68	449
10/28/02	6,320	1,270	8,026	83	521
10/29/02	6,020	625	3,763	658	3,961
10/30/02	6,070	775	4,704	78	470
10/31/02	5,540	742	4,111	1,318	7,302
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	183,540		158,878		27,328
Daily Avg.	5,921	866	5,125	152	882

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14,938
Aug Monthly Total	153,190		95,451		12,490
Sep Monthly Total	158,510		145,152		13,163
Oct Monthly Total	183,540		158,878		27,328
Nov Monthly Total					
Dec Monthly Total					
YTD Total	1,742,910		1,406,496		157,579
YTD Mon. Tot. Avg.	174,291		140,650		15,758

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.	4,942	631	3,079	81	403
Sep Daily Avg.	5,284	906	4,838	82	439
Oct Daily Avg.	5,921	866	5,125	152	882
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	5,735	807	4,636	92	518

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
11/01/02	6,570	743	4,882	188	1,232
11/02/02	5,720	793	4,536	58	329
11/03/02	5,830	830	4,839	100	583
11/04/02	5,890	1,010	5,949	278	1,637
11/05/02	7,290	885	6,452	74	536
11/06/02	4,680	1,040	4,867	83	386
11/07/02	6,870	493	3,387	81	556
11/08/02	5,950	546	3,249	99	586
11/09/02	6,460	555	3,585	96	620
11/10/02	6,090	628	3,825	63	381
11/11/02	5,210	727	3,788	53	274
11/12/02	6,720	753	5,060	107	716
11/13/02	5,880	784	4,610	102	597
11/14/02	5,810	698	4,055	108	625
11/15/02	5,700	705	4,019	124	704
11/16/02	6,050	1,770	10,709	73	439
11/17/02	5,910	881	5,207	56	331
11/18/02	5,950	701	4,171	58	345
11/19/02	7,200	597	4,298	96	688
11/20/02	5,970	686	4,095	71	424
11/21/02	7,430	638	4,740	70	516
11/22/02	6,420	699	4,488	77	494
11/23/02	5,670	792	4,491	81	459
11/24/02	6,060	757	4,587	54	327
11/25/02	5,780	672	3,884	65	376
11/26/02	6,140	1,160	7,122	127	780
11/27/02	6,230	730	4,548	53	327
11/28/02	6,520	792	5,164	60	391
11/29/02	5,990	709	4,247	116	692
11/30/02	6,170	744	4,590	63	386
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	184,160		143,443		16,736
Daily Avg.	6,139	784	4,781	91	558

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14,938
Aug Monthly Total	153,190		95,451		12,490
Sep Monthly Total	158,510		145,152		13,163
Oct Monthly Total	183,540		158,878		27,328
Nov Monthly Total	184,160		143,443		16,736
Dec Monthly Total					
YTD Total	1,927,070		1,549,939		174,314
YTD Mon. Tot. Avg.	175,188		140,904		15,847

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.	4,942	631	3,079	81	403
Sep Daily Avg.	5,284	906	4,838	82	439
Oct Daily Avg.	5,921	866	5,125	152	882
Nov Daily Avg.	6,139	784	4,781	91	558
Dec Daily Avg.					
YTD Daily Avg.	5,772	805	4,649	92	522

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
12/01/02	6,510	684	4,453	85	550
12/02/02	6,300	416	2,621	128	803
12/03/02	6,800	723	4,916	95	643
12/04/02	5 110	891	4,553	78	399
12/05/02	5,610	694	3,893	73	407
12/06/02	6,080	633	3,849	103	623
12/07/02	5,120	658	3,369	56	287
12/08/02	6,060	692	4,194	118	715
12/09/02	6,190	822	5,088	66	409
12/10/02	7,700	788	6,068	75	578
12/11/02	6,650	693	4,608	79	525
12/12/02	6,760	641	4,333	89	598
12/13/02	7,000	662	4,634	85	592
12/14/02	5,960	714	4,255	82	489
12/15/02	6,390	764	4 882	100	636
12/16/02	5,650	745	4,209	98	554
12/17/02	7,790	814	6,341	90	697
12/18/02	9,680	514	4,976	98	944
12/19/02	7,510	441	3,312	68	511
12/20/02	7,050	601	4,237	68	476
12/21/02	5,670	754	4,275	141	797
12/22/02	4,030	815	3,284	71	286
12/23/02	9,340	720	6,725	88	822
12/24/02	5,260	741	3,898	121	636
12/25/02	5,680	383	2,175	77	435
12/26/02	5,230	510	2,667	139	724
12/27/02	6 300	550	3,465	105	662
12/28/02	5,660	642	3,634	128	724
12/29/02	7,760	587	4 555	72	559
12/30/02	5,810	594	3,451	78	450
12/31/02	6,470	819	5,299	64	411
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	199,130		132,220		17,939
Daily Avg.	6,424	668	4,265	91	579

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	197,100		153,635		15,665
Feb Monthly Total	170,930		151,565		14,565
Mar Monthly Total	167,870		123,776		14,937
Apr Monthly Total	173,230		145,315		14,939
May Monthly Total	183,700		157,535		15,608
Jun Monthly Total	170,990		137,882		13,945
Jul Monthly Total	183,850		137,308		14 938
Aug Monthly Total	153,190		95,451		12,490
Sep Monthly Total	158,510		145,152		13,163
Oct Monthly Total	183,540		158,878		27,328
Nov Monthly Total	184,160		143,443		16,736
Dec Monthly Total	199,130		132,220		17,939
YTD Total	2 126,200		1,682,158		192,253
YTD Mon. Tot. Avg.	177,183		140,180		16,021

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,358	777	4,956	80	505
Feb Daily Avg.	6,105	886	5,413	85	520
Mar Daily Avg.	5,415	733	3,993	99	482
Apr Daily Avg.	5,774	840	4,844	86	498
May Daily Avg.	5,926	863	5,082	86	503
Jun Daily Avg.	5,700	817	4,596	81	465
Jul Daily Avg.	5,931	752	4,429	84	482
Aug Daily Avg.	4,942	631	3,079	81	403
Sep Daily Avg.	5,284	906	4,838	82	439
Oct Daily Avg.	6,139	784	4,781	91	558
Nov Daily Avg.	6,139	784	4,781	91	558
Dec Daily Avg.	6,424	668	4,265	91	579
YTD Daily Avg.	5,845	787	4,588	86	499

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January 2003

GRAPHICS PACKAGING - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
01/01/03	6,470	614	3 973	90	582
01/02/03	5,700	742	4,229	112	638
01/03/03	6,690	879	5,881	77	515
01/04/03	5,420	753	4,081	81	439
01/05/03	5,490	792	4,348	114	623
01/06/03	5,210	785	4,090	111	576
01/07/03	6,120	925	5 661	86	526
01/08/03	4 890	743	3,633	96	469
01/09/03	5 680	862	4,896	113	639
01/10/03	6,670	826	5,509	110	730
01/11/03	6,060	833	5,048	73	442
01/12/03	5,880	769	4,522	88	515
01/13/03	5 870	792	4 649	140	822
01/14/03	7 780	703	5,469	65	506
01/15/03	7,230	625	4,519	107	770
01/16/03	5,300	709	3,758	83	440
01/17/03	7,550	724	5,466	68	510
01/18/03	6,320	772	4,879	53	332
01/19/03	6,980	727	5,074	54	373
01/20/03	4,200	611	2,566	52	216
01/21/03	6,710	1,100	7,381	67	450
01/22/03	6,600	785	5,181	87	571
01/23/03	6 230	758	4 722	59	368
01/24/03	6,230	790	4,922	30	187
01/25/03	6,240	660	4,118	70	437
01/26/03	6,210	797	4,949	55	338
01/27/03	5,820	760	4,423	66	381
01/28/03	7,480	605	4,525	80	598
01/29/03	6,900	652	4,499	61	417
01/30/03	6,920	782	5,411	77	533
01/31/03	4,900	1,180	5,782	100	488
	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Monthly Total	191,750		148 167		15,432
Daily Avg.	6,185	776	4 780	81	498

	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Jan Monthly Total	191,750		148 167		15,432
Feb Monthly Total					
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	191,750				15,432
YTD Mon. Tot. Avg.	191,750				15,432

	FLOW, m3	CBOD, mg/L	CBOD, kg/L	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,185	776	4,780	81	498
Feb Daily Avg.					
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6 185	776	4 780	81	498

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
02/01/03	6,530	789	5,152	70	457
02/02/03	5,710	849	4,848	88	500
02/03/03	7,110	741	5,269	73	515
02/04/03	5,430	929	5,044	119	646
02/05/03	8,190	683	5,594	79	643
02/06/03	6,450	767	4,947	106	684
02/07/03	7,510	642	4,821	75	559
02/08/03	6,900	651	4,492	75	518
02/09/03	6,760	723	4,887	73	490
02/10/03	6,380	809	5,161	58	370
02/11/03	7,140	686	4,898	50	357
02/12/03	6,260	770	4,820	66	410
02/13/03	7,420	849	6,300	61	449
02/14/03	6,710	761	5,106	62	416
02/15/03	6,780	676	4,583	74	502
02/16/03	6,700	841	5,635	69	462
02/17/03	6,770	815	5,518	83	559
02/18/03	6,660	651	4,336	65	430
02/19/03	7,610	662	5,038	77	582
02/20/03	6,550	659	4,316	110	717
02/21/03	8,490	970	8,235	76	641
02/22/03	6,950	773	5,372	66	455
02/23/03	7,190	757	5,443	57	406
02/24/03	7,230	769	5,560	85	615
02/25/03	6,980	873	6,094	121	841
02/26/03	7,250	746	5,409	77	555
02/27/03	7,610	758	5,768	96	731
02/28/03	7,340	623	4,573	86	631
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	194,610		147,219		15,140
Daily Avg.	6,950	758	5,258	78	541

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	191,750		148,167		15,432
Feb Monthly Total	194,610		147,219		15,140
Mar Monthly Total					
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	386,360		295,386		30,572
YTD Mon. Tot. Avg.	193,180		147,693		15,286

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,185	776	4,780	81	498
Feb Daily Avg.	6,950	758	5,258	78	541
Mar Daily Avg.					
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6,568	767	5,019	80	519

GRAPHICS PACKAGING - BILLING					
DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
03/01/03	6,720	658	4,422	65	433
03/02/03	7 040	635	4,470	64	451
03/03/03	*7,200*	*650*	*4,680*	*65*	*468*
03/04/03	7,400	621	4,595	71	522
03/05/03	7,300	554	4,044	94	686
03/06/03	7,380	658	4,856	70	517
03/07/03	7,730	669	5,171	73	560
03/08/03	6,690	595	3,981	73	485
03/09/03	6,300	655	4,127	65	406
03/10/03	6,470	725	4,691	85	547
03/11/03	7,130	762	5,433	67	474
03/12/03	6,980	807	5,633	77	534
03/13/03	6,300	943	5,941	80	501
03/14/03	6,800	813	5,528	120	813
03/15/03	6,960	730	5,081	58	400
03/16/03	6,420	719	4,616	61	392
03/17/03	6,080	844	5,132	77	465
03/18/03	6,690	901	6,028	99	662
03/19/03	6,810	60	407	70	477
03/20/03	6,430	849	5,459	62	399
03/21/03	7,280	701	5,103	75	542
03/22/03	6,380	750	4,785	82	523
03/23/03	6,760	790	5,340	78	524
03/24/03	5,680	649	3,686	81	460
03/25/03	6,460	682	4,406	142	917
03/26/03	6,400	836	5,350	84	538
03/27/03	6,180	803	4,963	99	612
03/28/03	6,210	1,110	6,893	56	348
03/29/03	5,450	749	4,082	43	232
03/30/03	6,890	685	4,720	75	513
03/31/03	5,390	804	4,334	88	472
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	205,910		147,956		15,872
Daily Avg.	6,642	723	4,773	77	512

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	191,750		148,167		15,432
Feb Monthly Total	194,610		147,219		15,140
Mar Monthly Total	205,910		147,956		15,872
Apr Monthly Total					
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	592,270		443,342		46,444
YTD Mon. Tot. Avg.	197,423		147,781		15,481

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,185	776	4,780	81	498
Feb Daily Avg.	6,950	758	5 258	78	541
Mar Daily Avg.	6,642	723	4,773	77	512
Apr Daily Avg.					
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6,593	752	4,937	79	517

GRAPHICS PACKAGING - BILLING

DATE	FLOW, m3	CBOD, mg/L	CBOD, kg/d	TSS, mg/L	TSS, kg/d
04/01/03	6 450	805	5 192	97	622
04/02/03	5,460	714	3,898	101	549
04/03/03	6,870	566	3,888	65	447
04/04/03	7,050	593	4,181	104	733
04/05/03	6,680	617	4,122	70	468
04/06/03	7 290	672	4,899	82	594
04/07/03	6,480	627	4,063	60	389
04/08/03	6,640	759	5,040	68	448
04/09/03	6,410	752	4,820	105	673
04/10/03	6,290	709	4,460	86	538
04/11/03	6,840	762	5,212	57	390
04/12/03	6,880	749	5,153	61	416
04/13/03	7,030	836	5,877	59	411
04/14/03	5,070	1,040	5,273	74	375
04/15/03	6,180	915	5,655	109	671
04/16/03	7,470	930	6,947	65	486
04/17/03	6,350	828	5,258	69	438
04/18/03	6,340	803	5,091	83	523
04/19/03	6,560	803	5,268	75	489
04/20/03	6,720	934	6,276	74	494
04/21/03	6,320	803	5,075	63	395
04/22/03	5,750	967	5,560	75	431
04/23/03	6 120	1,440	8,813	112	682
04/24/03	5,760	866	4,988	65	374
04/25/03	5,800	876	5,081	38	218
04/26/03	5,460	1,010	5,515	55	298
04/27/03	5,690	992	5,644	82	464
04/28/03	6,380	815	5,200	72	456
04/29/03	5,330	827	4,408	79	418
04/30/03	5 380	866	4,659	98	525
	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Monthly Total	189,050		155,515		14,414
Daily Avg.	6,302	829	5,184	76	480

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Monthly Total	191,750		148,167		15,432
Feb Monthly Total	205,910		147,956		15,872
Mar Monthly Total	205,910		147,956		15,872
Apr Monthly Total	189,050		155,515		14,414
May Monthly Total					
Jun Monthly Total					
Jul Monthly Total					
Aug Monthly Total					
Sep Monthly Total					
Oct Monthly Total					
Nov Monthly Total					
Dec Monthly Total					
YTD Total	792,620		599,594		61,589
YTD Mon. Tot. Avg.	198,155		149,898		15,397

	FLOW, m3	CBOD, mg/L	CBOD, kg	TSS, mg/L	TSS, kg
Jan Daily Avg.	6,185	776	4,780	81	498
Feb Daily Avg.	6,642	723	4,773	77	512
Mar Daily Avg.	6,642	723	4,773	77	512
Apr Daily Avg.	6,302	829	5,184	76	480
May Daily Avg.					
Jun Daily Avg.					
Jul Daily Avg.					
Aug Daily Avg.					
Sep Daily Avg.					
Oct Daily Avg.					
Nov Daily Avg.					
Dec Daily Avg.					
YTD Daily Avg.	6,443	763	4,877	78	501

ATTACHMENT 8

Chapter 28

WASTEWATER DISCHARGE REGULATIONS AND ENFORCEMENT PROCEDURES*

Art. I.	General Provisions, §§ 28-1—28-9
Art. II.	Discharge Regulations, §§ 28-10—28-29
Art. III.	Administration, §§ 28-30—28-39
Art. IV.	Hauled waste, §§ 28-40—28-49
Art. V.	Enforcement and Penalties, §§ 28-50—28-69
Art. VI.	Service Charges, §§ 28-70—28-90

ARTICLE I. GENERAL PROVISIONS

Sec. 28-1. Purpose.

The purpose of this chapter is to:

(1) Provide comprehensive collection, treatment and disposal of all wastewaters discharged to the city water reclamation plant.

(2) Prevent:

a. Damage to the wastewater system from misuse;

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*Editor's note—Ord. No. 1639, §§ 1, 2, adopted June 30, 1997 repealed former Ch. 28 in its entirety and enacted new provisions as herein set out. Ord. No. 1649, § 1, adopted March 9, 1998, amended Article VI., Service Charges, by changing §§ 28-72—28-80 back to the rate language in effect prior to the adoption of Ord. No. 1639 on June 30, 1997.

Former Ch. 28 pertained to similar subject matter and derived from P.S. Code §§ 302.1—302.15, 302.21—302.23, 302.31, 302.34A, 302.35, 302.36, 302.38, 302.39, 302.310—302.213 and the following ordinances:

Ord. No.	Section	Date	Ord. No.	Section	Date
1074	1	12-29-75	1339	1	1-28-85
1154	1	4-2-79	1370	1	3-10-86
1190	1	3-3-80	1373	1, 2	3-10-86
1268	1	9-7-82	1405	1	2-16-87
1273	1	11-1-82	1495	1—3	5-14-90
1293	1	10-3-83	1507	1	12-31-90
1334	1	9-24-84	1576	1	5-31-94

Cross references—Department of Public Services, § 2-299 et seq.; buildings and building regulations, Ch. 9; plumbing code, § 9-78; connection of swimming pool drain line to city sewer system, § 34-7; water, Ch. 38.

b. Injury to employees;

c. Surcharging of all or part of the wastewater system;

d. Interference with the process of wastewater treatment or disposal; and,

e. Pass-through of pollutants through the wastewater system.

(3) Ensure compliance with all applicable local, state and federal statutes and regulations;

(4) Promote waste minimization in the areas served by the wastewater system; and,

(5) Establish administrative procedures to ensure adherence and enforcement of Chapter 28 of the Kalamazoo City Code of Ordinances. (Ord. No. 1628, § 1, 11-18-96)

Editor's note—Prior to 6-30-97 the subject of § 28-1 was: Defintions.

Sec. 28-2. Applicability.

This chapter applies to all users of the wastewater system. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject of § 28-2 was: System to be operated on rate basis.

Sec. 28-3. Definitions.

The following definitions apply to the terms used in this chapter:

(1) *Authorized representative*

a. If the user is a corporation, authorized representative means:

1. The president, secretary, treasurer or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decisionmaking functions for the corporation;

2. The manager of one or more manufacturing, production or operation facilities employing more than two hundred fifty (250) persons or having gross annual sales or expenditures ex-

ceeding twenty-five million dollars ($25,000,000.00) (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. If the user is a partnership or sole proprietorship, authorized representative shall mean a general partner or proprietor, respectively;

c. If the user is a federal, state or local governmental facility, authorized representative shall mean a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or his/her designee;

d. The individuals described in paragraphs a.—c. above may designate another authorized representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company, and the written authorization is submitted to the city.

(2) *Bypass* means the diversion of wastewater from any portion of the user's treatment facility.

(3) *Biochemical Oxygen Demand,* or *BOD,* means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures for five (5) days at twenty (20) degrees centigrade expressed in terms of weight and concentration as milligrams per liter (mg/l).

(4) *Capital charges* means those amounts paid by each user connected to the treatment system to pay the debt service requirements and capital expenditures to enlarge or improve the wastewater system.

(5) *Categorical Pretreatment Standard* or "categorical standard" means any regulation containing pollution discharge limits promulgated by the USEPA in accordance with sections 307(b) and (c) of the FWPCA, 33 USC 1317,

which apply to a specific category of nondomestic users and which appear in 40 CFR Chapter I, Subchapter N, parts 405—471, or Michigan's Act 451 of 1995, or subsequent amendments thereto.

(6) *CBOD—Carbonaceous Biochemical Oxygen Demand* means the measured fraction of the biochemical oxygen demand that excludes the oxygen uptake from reduced forms of nitrogen by the use of a chemical inhibitor. If the inhibiting chemical is not used, the oxygen demand measured is the sum of the carbonaceous and nitrogenous demands. Results are reported as carbonaceous biochemical oxygen demand (CBOD) when inhibiting the nitrogenous oxygen demand. When nitrification is not inhibited, results are reported as BOD.

(7) *Centralized waste treater* means a user that treats wastes generated by activities located at a site other than where the treatment occurs and then discharges the wastes into the wastewater system.

(8) *CFR* means Code of Federal Regulations.

(9) *Chapter* means Chapter 28 of the Kalamazoo City Code of Ordinances.

(10) *Chemical Oxygen Demand,* or *COD,* means the total demand or quantity of oxygen required by the wastewater as specifed in the current edition of "Standard Methods for the Examination of Water and Wastewater" expressed in milligrams per liter.

(11) *City* means City of Kalamazoo or its duly authorized representative.

(12) *Commencement of Construction* means either:

a. The beginning, as part of a continuous on-site construction program of:

(i) The placement assembly, or installation of facilities or equipment; or

(ii) Significant site preparation work, such as clearing, excavation, or the removal of existing buildings, structures, or facilities when their

removal is necessary for the placement, assembly or installation of new source facilities or equipment; or

b. The entrance into a binding contractual obligation for the purchase of facilities or equipment that the purchaser intends to use as a new source within a reasonable time. Entrance into the following contracts does not constitute a commencement of construction: options to purchase contracts that may be terminated without substantial loss, or contracts for feasibility, engineering, or design studies.

(13) *Compatible pollutant* means pollutants which can be effectively removed by the wastewater system to within acceptable levels for the wastewater system residuals and receiving stream. Specifically excluded are heavy metals, PCBs, and any pollutants that will likely contribute to or cause operational or sludge disposal problems or unacceptable discharges to the receiving waters.

(14) *Compliance schedule* means a schedule of remedial measures that includes an enforceable sequence of events for the commencement or completion of actions leading to compliance with a pretreatment standard or requirement.

(15) *Composite sample* means the sample resulting from the combination of individual wastewater samples taken at selected intervals based on an increment of either flow or time, over a specified period which provides a representative sample of the average stream during the sampling period. For categorical process samples, this is required to be a minimum of four (4) samples per twenty-four (24) hours (see 40 CFR 403.12(b)).

(16) *Conventional pollutants* means BOD, TSS, pH, fecal coliform, and oil and grease (see 40 CFR 401.16).

(17) *Dewatering* means the temporary discharge of groundwater associated with a construction project requiring the need to maintain below grade excavation free from surface or subsurface infiltration of water. Conditional approval from the Director of Public Services must be obtained prior to discharge.

(18) *Direct discharge* means the discharge of treated or untreated waters directly or indirectly via storm sewer to the waters of the state or navigable waters of the United States.

(19) *Director* means director or acting director of the Department of Public Services of the city or his/her designee or authorized representative.

(20) *Discharge* means to release a pollutant from or through:

a. Pipes;

b. Conduits;

c. Pumping stations;

d. Ditches;

e. Tank trucks;

f. The ground through defective pipes, pipe joints, or walls;

g. Roof leaders;

h. Cellar, yard, or area drains;

i. Foundation drains;

j. Drains from springs and wetlands;

k. Manhole covers;

l. Crossover pipes from storm sewers and combined sewers;

m. Catch basins;

n. Storm sewers;

o. Surface run-offs;

p. Street wash waters; or

q. Other drainage.

(21) *Domestic waste* means human waste and other wastes related to personal or residential sanitation including hauled septage waste.

(22) *Domestic wastewater* means wastewater that contains only domestic waste.

(23) *Exemption* means exemption from categorical pretreatment standards imposed under federal, state or local law.

(24) *Flow proportioned composite sample* means a sampling method which combines discrete aliquots of a sample collected over time, based on the flow of the waste stream being sampled. The aliquots collected shall be at constant time intervals with the volume of each aliquot varying based upon the stream flow. Flow proportional samples can also be a combination of constant volume samples collected at time intervals which vary based on the stream flow.

(25) *FWPCA* means the Federal Water Pollution Control Act, as amended, (also known as the Clean Water Act (CWA)), 33 USC 1251 et seq.

(26) *Garbage* means solid waste from the domestic or commercial preparation, cooking, dispensing, storage, handling or sale of food.

(27) *GPD* means gallons per day.

(28) *Grab sample* means a sample which is taken on a one-time basis with no regard to the flow of the waste stream and over a period of time not to exceed fifteen (15) minutes.

(29) *Hauled waste* means waste that is discharged to the wastewater system from a tank truck or other conveyance by vehicle.

(30) *Indirect discharge* means the discharge or the introduction of nondomestic pollutants from any source regulated under Section 307(b) or (c) of the FWPCA, (33 USC 1317), into the wastewater system (including holding tank waste discharged into the system).

(31) *Individual control document* (ICD) means a written mechanism issued by the city to significant industrial users (SIUs) and permitted industrial users (PIUs) to ensure and enforce compliance with applicable pretreatment standards and requirements in accordance with provisions of this chapter.

(32) *Industrial user* means a source of industrial waste. Single and multiple family residential dwellings with discharges consistent with domestic waste characteristics are specifically excluded.

(33) *Industrial waste* means any liquid, solid or gaseous waste or form of energy, or combination thereof, resulting from any processes of industry, manufacturing, business trade or research, including the development, recovery or processing of natural resources.

(34) *Infiltration* means water other than wastewater that enters the wastewater system (including building drains and building sewers) from the ground through such means as defective pipes, defective pipe joints, defective connections or defective manholes. Infiltration does not include, and is distinguished from, inflow.

(35) *Inflow* means water other than wastewater that enters the wastewater system (including building drains and building sewers) from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross-connections between storm sewers and sanitary sewers, catch basins, cooling towers, stormwaters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.

(36) *Interference* means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

a. Inhibits or disrupts the wastewater system, its treatment processes or operations, or its sludge processes, use or disposal; and

b. Therefore is a cause of a violation of any requirement of the wastewater system's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations, as amended, or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any

state sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

(37) *μg/l* means micrograms per liter.

(38) *mg/l* means milligrams per liter.

(39) *MDEQ* means the Michigan Department of Environmental Quality.

(40) *New source* means:

a. Any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under section 307(c) of the FWPCA which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:

(i) The building, structure, facility or installation is constructed at a site at which no other source is located; or

(ii) The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or

(iii) The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source should be considered.

(iv) Construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not

create a new building, structure, facility or installation meeting the criteria of paragraphs (a)(ii) or (a)(iii) of this section but otherwise alters, replaces or adds to existing process or production equipment.

(v) Construction of a new source as defined under this paragraph has commenced if the owner or operator has:

1. Begun, or caused to begin as part of a continuous on site construction program:
   (a) Any placement, assembly or installation of facilities or equipment; or
   (b) Significant site preparation work, including clearing, excavation or removal of existing buildings, structures or facilities which is necessary for the placement, assembly or installation of new source facilities or equipment; or
2. Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering and design studies do not constitute a contractual obligation under this paragraph.

(41) *Non-categorical* means a process or facility with processes which is/are not regulated by any of the National Categorical Pretreatment Standards listed in 40 CFR Chapter I, Subchapter N.

(42) *Noncontact cooling water* means water used for cooling that does not come into direct contact with any raw material, intermediate product, waste product finished product, or other chemical additives.

(43) *Nondomestic waste* means any waste generated from an industrial or commercial process or other means that is not a domestic waste.

(44) *Nondomestic wastewater* means wastewater that contains nondomestic waste, including contaminated groundwater and leachate.

(45) *Pass-through* means a discharge which exits the wastewater system into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the wastewater system's NPDES permit (including an increase in the magnitude or duration of a violation).

(46) *Permitted industrial user (PIU)* means an industrial user that does not meet the definition of a significant industrial user but is required to have a permit.

(47) *Person* means any individual, partnership, co-partnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity, or any other legal entity or their legal representatives, agents or assigns. The masculine gender shall include the feminine, the singular shall include the plural where indicated by the context.

(48) *pH* means the logarithm (base 10) or the reciprocal of the concentration of hydrogen ions expressed in grams per liter of solution.

(49) *NPDES* or *National Pollutant Discharge Elimination System* means the program for issuing, conditioning and denying permits for the discharge of pollutants from point sources into the navigable waters, territorial seas and contiguous zones of the United States pursuant to Section 402 of the FWPCA.

(50) *Pollutant* means any of the following:

a. Substances regulated by categorical standards;

b. Substances discharged to the wastewater system that are required to be monitored, are limited in the wastewater system's permit, or are to be identified in the wastewater system's permit application.

c. Substances for which control measures on nondomestic users are necessary to avoid restricting the wastewater system's approved residuals management program.

d. Substances for which control measures on nondomestic users are necessary to avoid operational problems at the wastewater system.

e. Substances for which control measures on nondomestic sources are necessary to avoid worker health and safety problems in the wastewater system.

(51) *Pretreatment* means the reduction of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into the wastewater system. The reduction or alteration may be obtained by physical, chemical or biological processes, process changes or by other means, except as prohibited by 40 CFR 403.6(d) or subsequent amendments. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against surges or slug loadings that might interfere with or otherwise be incompatible [with] the wastewater system.

(52) *Pretreatment requirement* means any substantive or procedural requirement related to pretreatment other than a pretreatment standard, imposed on an industrial user.

(53) *Pretreatment standard* means any federal or state pollutant discharge limits promulgated in accordance with the Clean Water Act or Michigan's Act 451 of 1995 or subsequent amendments thereto. This term includes the general and specific prohibitions and local limits specified in (or pursuant to) this chapter, the Wastewater Use Rules and Regulations or a user's permit or ICD.

(54) *Process wastewater* means any water that, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct or waste product.

(55) *Release* means to spill, leak, dump, pump, dispose, deposit, inject, place and abandon.

(56) *Shall* vs. *may*: Shall means mandatory; may is permissive.

(57) *Significant industrial user (SIU)* means any of the following:

a. All industrial users subject to categorical pretreatment standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N.

b. Any other industrial user that: discharges an average of twenty-five thousand (25,000) gallons per day or more of process wastewater to the wastewater system (excluding sanitary non-contact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up five (5) per cent or more of the average dry weather hydraulic or organic capacity of the wastewater system treatment plant; or is designated as such by the city on the basis that the industrial user has a reasonable potential for adversely affecting the wastewater system's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Upon a finding that an industrial user meeting the criteria in paragraph b. of this section has no reasonable potential for adversely affecting the wastewater system's operation or for violating any pretreatment standard or requirement, the city may at any time, on its own initiative or in response to a petition from an industrial user or wastewater system, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

(58) *Significant noncompliance* means a user is in significant noncompliance (SNC) if its violation meets one or more of the following criteria:

a. Chronic violations of local, state or federal wastewater discharge limits whereby sixty-six (66) per cent or more of the measurements exceed the same daily maximum limit or the same average limit in a six-month period (by any magnitude);

b. Technical review criteria (TRC) violations whereby thirty-three (33) per cent or more of the measure-

ments exceed the same daily maximum limit or the same average limit by more than the TRC in a six month period;

There are two groups of TRCs:

Group I for Conventional Pollutants
(BOD, TSS, Fats, Oil, and Grease) TRC=1.4

Group II for All Other Pollutants except pH TRC=1.2;

c. Any other violation(s) of an effluent limit (average or daily maximum) that the director determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of wastewater system personnel or the general public);

d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment or has resulted in the director's exercise of his or her authority under Chapter 28 [40 CFR 403.8 (f)(1)(vi)(B)] of the Kalamazoo Code of Ordinances to halt or prevent such a discharge;

e. Failure to meet, within ninety (90) days after the schedule date, a compliance schedule milestone contained in a individual control document or compliance order for starting construction, completing construction, or attaining final compliance;

f. Failure to provide, within thirty (30) days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports on sampling required to be performed during the period, and reports on compliance with compliance schedules or orders;

g. Failure to accurately report noncompliance; or,

h. Any other violation or group of violations which the director determines will adversely affect the operation or implementation of Chapter 28 of the Kalamazoo Code.

(59) *Slug* means any non-routine batch discharge, including but not limited to discharges resulting from a spill.

(60) *State* means State of Michigan or its duly authorized representative.

(61) *Storm drain or storm sewer* means any drain or sewer-intended expressly for the conveyance of stormwater and surface water, street wash, or drainage or other unpolluted water.

(62) *Suspended solids* means the total suspended matter that floats on the surface of, or is suspended in, wastewater and that is removable by laboratory filtering.

(63) *Time proportional composite sample* means a sampling method which combines discrete sample aliquots of constant volume collected at constant time intervals.

(64) *Upset* means an incident for which a user may have a defense to an enforcement action pursuant to 40 CFR 403.16.

(65) *USEPA* means the United States Environmental Protection Agency.

(66) *User* means any person who discharges or causes or permits the discharge of domestic or nondomestic waste into the wastewater system and/or the owner or occupant of any property from which said discharge is made.

(67) *Wastewater* means the liquid and water-carried industrial or domestic wastes from dwellings, commercial buildings, industrial facilities and institutions, together with any groundwater, surface water, and storm water that may be present whether treated or untreated, which is contributed into or permitted to enter the wastewater system.

(68) *Wastewater system* means:

a. The facilities of the city for collection, transportation, storage, pumping, treatment, and final disposition of domestic and nondomestic wastewater;

b. The wastewater collection facilities of any municipality served by the city; and

c. Any temporary connection authorized by the director.

(69) *Wastewater Use Rules and Regulations* (formerly known as Sewer Use Regulations) means any local discharge

limitations or prohibited discharges promulgated by the director and approved by the Kalamazoo City Commission to account for specific operational considerations and concerns of the wastewater system. (Ord. No. 1628, § 1, 11-18-96)

Editor's note—Prior to 6-30-97 the subject matter of § 28-3 was: Management of system.

Sec. 28-4. State and federal requirements.

(1) *Federal Categorical Pretreatment Standards.* The national categorical pretreatment standards found at 40 CFR Chapter I, Subpart N, Parts 405—471, are hereby incorporated. Federal Categorical Pretreatment Standards, if more stringent than limitations imposed under this chapter or in the Wastewater Use Rules and Regulations for sources in that subcategory shall supersede the limitations imposed under this chapter.

(2) *State requirements.* State requirements and limitations on discharges shall apply in any case where they are more stringent than federal requirements and limitations or those in this chapter or in the Wastewater Use Rules and Regulations.

(3) *City's right of revision.* The city reserves the right to establish more stringent limitations or requirements on discharges to the wastewater system if deemed necessary to comply with the objectives of this chapter.

Except insofar as the city may be permitted by law to seek and obtain an exemption, and such exemption is granted, the city shall implement and enforce federal and state laws and regulations pertaining to its wastewater system that supplement or supersede this chapter. The city may implement and enforce these regulations after notice of their promulgation has been published in the federal register or as otherwise required by law. The city may implement and enforce these regulations without providing additional notice to users and prior to amending this chapter. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-5. Management of System.

(1) The wastewater system shall be and remain under the management, supervision and control of the City Commission, which may employ or designate such person or persons in such

capacity or capacities as it deems advisable to carry out the efficient management and operation of the system. The director, subject to the approval of the City Commission, may make such rules, orders or regulations as he/she deems advisable and necessary to assure the efficient management and operation of the system and to provide equitable charges for the services thereof.

(2) The City Manager shall cause to be maintained and kept proper books of records and account in which shall be made full and correct entries of all transactions relating to the wastewater system. Not later than three (3) months after the close of the fiscal year, the City Manager shall cause to be prepared a statement, in reasonable detail, showing the cash income and disbursements of the system at the beginning and close of the operating year and such other information as may be necessary to enable any taxpayer of the city or user of the service furnished to be fully informed as to all matters pertaining to the financial operation of the system during such year.

(3) A budget, showing in detail the estimated costs of administration, operation and maintenance of the wastewater system for the next ensuing fiscal year, including billing, accounting, postage and related costs, and including an amount equal to the bond principal and interest due to be paid in said year, shall be prepared by the City Manager at the same time as he/she is required by the Charter to prepare the annual city budget, which budget shall be subject to the approval of the City Commission. The amounts transferred into the operation and maintenance fund during each year shall not exceed the amount set forth in such budget unless approved by vote of the City Commission. (Ord. No. 1639 § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-5 was: Use of public sewers rquired.

Secs. 28-6—28-9. Repealed.

Editor's note—Ord. No. 1639, adopted 6-30-97 repealed §§ 28-6 to 28-9. Prior to 6-30-97 the subject matter of § 28-6 was: Connection charges. The subject matter of § 28-7 was: Permit to connect, generally. The subject matter of § 28-8 was: Unauthorized connections. The subject matter of § 28-9 was: Limitations on wastewater discharging.

ARTICLE II. DISCHARGE REGULATIONS

Sec. 28-10. General provisions.

(1) Use of wastewater system:

(a) It shall be the duty of the owner of any inhabited building, or of any building discharging pollutants into water, situated on land abutting or fronting on any street or alley in which a sanitary sewer has been laid, or in which a sanitary sewer shall hereafter be built, to connect such building at his/her own expense, with the sewer adjacent thereto, within thirty (30) days after notice.

(b) It shall be unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the city or in any area under the jurisdiction of the city any human or animal excrement or pollutant as defined herein. This paragraph shall not apply to the making or use of compost or fertilizer by said person on his or her own property if done in compliance with any and all laws, ordinances and regulations as part of a lawful business or domestic agricultural activity which poses no substantial threat to public health, safety or welfare and is not a common-law nuisance.

(c) It shall be unlawful to discharge to any natural outlet or storm sewer within the city or in any area under the jurisdiction of the city, any domestic or nondomestic wastewater except where suitable treatment has been provided in accordance with all applicable local, state and federal rules and regulations and as approved by the Director of Public Services.

(d) Except for facilities approved by the Kalamazoo County Human Services Department in accordance with the county public health code sewage disposal regulations, it shall be unlawful to construct or maintain any privy, privy vault, septic tank, cesspool, or other facility intended or used for the disposal of domestic or nondomestic wastewater within the city.

(e) Except insofar as the city may be permitted by law to seek and obtain an exemption, and such exemption is granted, all users which discharge or release or cause the discharge or release of nondomestic waste shall pretreat any pollutant which may cause interference, pass-through, violate local, state or federal requirements or otherwise adversely affect the wastewater system. Pretreatment of such pollutants shall be in accordance with Section 307 of the FWPCA, 40 CFR 403, the ICD's and as determined by the director. Users shall come into compliance with applicable pretreatment requirements within ninety (90) days of commencement of discharge or release. Any time extensions for compliance are subject to the written approval of the director.

(2) *Interference.* A user may not make any discharge into the wastewater system which causes interference.

(3) *Pass-through.* A user may not make any discharge into the wastewater system which causes pass-through.

(4) *Bypass.* Bypass is prohibited, and the city may take enforcement action against a user for a bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury or severe property damage (see 40 CFR 403.17 (a)(2) for the definition of "severe property damage");

(b) There was no feasible alternative to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance;

(c) The user submitted adequate notice to the director at least ten (10) days before the date of the bypass if the user knew in advance of the need for a bypass or the user submits notice as required by Section 28-31(4);

The director may approve an anticipated bypass, after considering any of its adverse effects, if the director

determines that the bypass will meet the conditions listed in paragraphs (a), (b), and (c) of this section. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-10 was: Prohibited discharges.

Sec. 28-11. Specific prohibitions.

Users may not discharge the following substances to the wastewater system:

(1) Pollutants that create a fire or explosion hazard in the wastewater system, including but not limited to pollutants that result in wastewater with a closed cup flash point of less than 140° F or 60° C using the test methods specified in 40 CFR 261.21;

(2) Wastewater having a corrosive property capable of causing damage to the structures, equipment or personnel of the city including but not limited to wastewater with a pH less than or greater than the limits set forth in Section 28-13;

(3) Solid or viscous substances that may obstruct the flow in the wastewater system or otherwise cause interference with the operation of the wastewater system;

(4) Wastewater with a temperature that inhibits biological activity in the wastewater system, including but not limited to any wastewater that causes the influent to the treatment plant to exceed 40° C (104° F) or any wastewater or vapor having a temperature higher than 65° C (149° F) at the point of entrance to the wastewater system;

(5) Petroleum oil, nonbiodegradable cutting oil, products of mineral oil origin, antifreeze, motor oil, brake fluid, transmission fluid hydraulic fluid, degreasing solvents, oil-based paint, and/or paint thinners in amounts that cause interference or pass through, including but not limited to amounts in excess of the limit set forth in Wastewater Use Rules and Regulations (see Section 28-12);

(6) Pollutants that result in the presence of gases, vapors or fumes within the wastewater system that:

a. Cause an odor nuisance; or

b. Create workplace conditions that may cause acute worker health or safely problems;

(7) Any pollutant, including oxygen-demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration that may cause interference with the wastewater system;

(8) Hauled waste, except for hauled waste that consists of domestic wastewater or nondomestic wastewater as approved by the director that is discharged at a point designated by the director.

(9) Any wastewater that contains radioactive wastes, except when:

a. The user is authorized to use radioactive material by the U.S. Nuclear Regulatory Commission or other governmental agency with authority to regulate the use of radioactive materials, and

b. The wastewater is discharged in compliance with the regulations of the U.S. Nuclear Regulatory Commission and any other applicable local, state or federal regulations.

(10) Any stormwater, surface water, groundwater, roof run-off, subsurface drainage, non-contact cooling water, or other unpolluted water except as approved by the director;

(11) PCB's and/or mercury;

(12) Any nondomestic wastewater before the city has approved a notice of intent submitted according to Section 28-31 (2);

(13) Any mass, concentration, or volume of a substance in excess of the amount allowed in the user's individual control document;

(14) Discoloring pollutants which impart a color to the wastewater in the wastewater system, which color cannot be removed by the system's treatment process or which is prohibited by the city's NPDES permit; and

(15) Slug discharges not approved by the director. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-11 was: Water used for cooling purposes.

Sec. 28-12. Wastewater use rules and regulations.

(1) Pursuant to City Commission approval, the director is authorized to establish, implement and enforce wastewater use rules and regulations (formerly known as Sewer Use Regulations).

(2) Rules and regulations adopted under this section may include, but are not limited to, local pollutant limits, submission of plans by users for the pretreatment of wastewater, equipment installation to monitor the nature and quantity of the wastewater being discharged into the wastewater system or record keeping requirements. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-12 was: Discharge into storm sewers.

Sec. 28-13. pH regulation.

(1) A user may not discharge any wastewater having a pH lower than 6.2 or higher than 9.8 standard units (SU), measured at the point of entry to the wastewater system, or having any other corrosive property capable of causing damage to any equipment or portion of the wastewater system or injury to the system's personnel.

(2) Where a user continuously measures the pH of a wastewater discharge through use of electronic sensing and recording instrumentation, or such measurement is performed by the director, the user shall maintain the pH of such discharge within the range set forth in this regulation, except that excursions from the range are permitted subject to the following conditions:

(a) The total time of excursions from the range shall not exceed one (1) per cent of any calendar month or one (1) per cent of the monitoring period if less than one (1) month.

(b) No individual excursion from the range shall exceed sixty (60) minutes.

(c) A user with a total wastewater discharge that is equal to or less than one (1) percent of the average daily dry weather flow received by the city water reclamation plant may at the discretion of the director, be allowed an exemption from the pH limits of 6.2 to 9.8 SU provided that the user is in compliance with the requirements established in Section 28-13(3). A user granted such exemption shall be issued an individual control document specifying the special conditions under which the exemption may exist.

(3) Any wastewater discharge with a pH value less than 5.0 SU shall be considered a prohibited slug discharge regardless of duration or volume. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-13 was: Excessive discharge.

Sec. 28-14. Excessive discharge.

(1) No discharge shall exceed the peak flow rate as indicated in the individual control document.

(2) No wastewater shall be discharged at a rate which upsets or interferes with the treatment process or causes a hydraulic surge in the wastewater system. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-14 was: Repeating violations.

Sec. 28-15. Dilution prohibition.

Unless authorized to do so by an applicable pretreatment standard or requirement, a user may not increase the use of process water or in any other way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with any applicable pretreatment standard or requirement. The director may impose mass limits on a user that is using dilution to meet the applicable pretreatment standards or requirements or in any other case where mass limits are appropriate. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-15 was: Procedures for enforcement.

Sec. 28-16. New source compliance.

Before beginning to discharge, new sources shall install, have in operating condition, and start-up all pollution control equipment needed to comply with the applicable pretreatment standards and requirements. Within the shortest feasible time not to exceed ninety (90) days new sources shall meet all applicable pretreatment standards and requirements. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-16 was: Termination of service.

Sec. 28-17. Categorical pretreatment standards.

(1) Existing sources shall comply with any applicable categorical pretreatment standard within three (3) years from the date that the standard is effective unless a shorter compliance date is specified in the standard.

(2) Existing sources that become users after promulgation of an applicable categorical pretreatment standard shall comply with the categorical pretreatment standards for existing sources on the commencement of discharge to the wastewater system.

(3) Limits in a categorical pretreatment standard apply to the effluent from the process regulated by the standard regardless of the site of effluent discharge.

(4) The calculation of equivalent mass and concentration limits using the combined waste stream formula will be done in accordance with 40 CFR 403.6 (c), (d), and (e).

(5) The director may adjust categorical pretreatment standards to reflect the presence of pollutants in the user's intake water in accordance with 40 CFR 403.15. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-17 was: Inspection and monitoring of users.

Sec. 28-18. Storm sewer discharges.

(1) It shall be unlawful for any user to discharge, release or allow, or cause to be discharged, released, or allowed, any pollutants into any storm drain or storm sewer, or drain or pipe

connected with or emptying into any storm sewer or storm drain, except pollutants resulting from rainfall or the melting of snow and ice, or unless it is in compliance with a state-issued NPDES permit authorizing the discharge.

(2) No user shall connect or attach any downspout, pipe, or drain, or cause the same to be connected or attached to any public storm sewer without first having obtained permission, in writing to do so from the department of public services. Application for such permission shall be filed with the department of public services and shall state the location of the connection and the name and address to be connected and shall be accompanied by sufficient plans and specifications as to enable the public services department to determine whether the same is proposed to be done in a good and workmanlike manner and in accordance with standard practices and so as not to endanger pedestrians and others using the public streets, alleys, and places. Upon compliance with the foregoing requirements, the public services department shall issue such permit, but upon the express condition that the applicant shall not use the downspout, pipe, or drain, or permit the use thereof, for any purpose other than those allowed and set forth in section 28-18 (1). (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-18 was: Rules and regulations.

Sec. 28-19. Connections to the wastewater system.

(1) It shall be unlawful to connect to the wastewater system without securing written permission from the director. Written permission shall be contingent upon a user providing connection plans that conform with the wastewater system. A certificate of approval of such connection plans by the MDEQ shall also be furnished where, by law, such plans are required to be approved.

(2) Permission to connect to the wastewater system shall not be granted until all assessments due and all advance deposits established have been paid and until the director has determined that there is capacity available for the additional discharge in all downstream sewers, lift stations, force mains and the city water reclamation plant including capacity for compatible waste.

(3) The director may require from any proposed user or from any existing user who is altering the composition of the wastewater, a compatibility study to demonstrate to the satisfaction of the director that the wastewater to be discharged is compatible with the existing wastewater system, will not affect any requirements imposed upon the city, will not adversely affect the wastewater system, and is consistent with the user's individual control document. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—From March 3, 1980—March 10, 1986 the subject matter of § 28-19 was: Industrial cost recovery system. On March 10, 1986 § 28-19 was repealed by Ord. No. 1373.

Secs. 28-20—28-29. Reserved.

Editor's note—Ord. No. 1639, adopted 6-30-97 repealed § 28-20. Prior to 6-30-97 the subject matter of § 28-20 was: Discharge of stormwater; connections outside the city. §§ 28-21 to 28-23 were reserved. The subject matter of § 28-24 was: To be charged for all connections; basis, meters. The subject matter of § 28-25 was: Rates established. The subject matter of § 28-26 was: Classification of users for billing purposes. The subject matter of § 28-27 was: Applicability of demand charge to property not connected to sewer. § 28-28 was reserved. The subject matter of § 28-29 was: Billing, responsibility for payment.

ARTICLE III. ADMINISTRATION

Sec. 28-30. Individual control documents.

(1) *Applicability.* All significant and permitted industrial users shall be administratively regulated by an individual control document (ICD).

(2) *ICD Elements.* Individual control documents shall include the following elements:

(a) A statement of duration not to exceed five (5) years; existing permittees shall apply for permit reissuance a minimum of ninety (90) days prior to the expiration of their existing permit. Upon timely application for reissuance of a permit in accordance with this paragraph, the expired permit shall be automatically extended until a final decision regarding the application is made.

(b) An ICD shall be issued to a specific SIU or PIU for specific processes and operations at a specific location;

(c) An ICD is not transferable to another user, process, operation, or location without prior approval from the director; a copy of the ICD shall be issued to the new owner or operator by the director;

(d) Except insofar as the city may be permitted by law to seek and obtain an exemption and such exemption is granted, an ICD shall include effluent limitations based on applicable general pretreatment standards in 40 CFR 403, categorical pretreatment standards, this chapter, Wastewater Use Rules and Regulations, and state and local law; if exemption has been granted, the ICD shall include the terms of same.

(e) Self-monitoring, sampling, reporting, notification and record keeping requirements, including an identification of the pollutants to be monitored, sampling location, sampling frequency, and sample type, based on applicable pretreatment standards in 40 CFR 403, categorical pretreatment standards, this chapter, Wastewater Use Rules and Regulations, and state and local law;

(f) A statement of applicable civil and criminal penalties for violation of pretreatment requirements and standards, and any applicable compliance schedule; and

(g) Any other applicable requirements.

(3) *ICD Modification.* Change, modification, revocation, or reissuance of an ICD shall be at the sole discretion of the director. Before taking possession or control of the processes or operations to which an ICD applies, the user taking possession or control shall apply to the director for the issuance of an ICD; application shall be made a minimum of ninety (90) days before the user takes possession or control. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-30 was: When due and payable; penalty and interest for delinquency.

Sec. 28-31. Reporting requirements

(1) *Baseline monitoring reports.* Within either one hundred eighty (180) days after the effective date of a categorical pretreatment standard, or the final administrative decision on a category determination under 40 CFR 403.6(a)(4), whichever is later, users

subject to such categorical pretreatment standards, and currently discharging to or scheduled to discharge to the wastewater system, shall be required to submit to the city a report which contains the information listed below. At least ninety (90) days prior to commencement of their discharge, new sources, and sources that become industrial users subsequent to the promulgation of an applicable categorical standard, shall be required to submit to the city a report which contains the information listed below. A new source shall also be required to report the method of pretreatment it intends to use to meet applicable pretreatment standards. A new source shall also give estimates of its anticipated flow and quantity of pollutants discharged.

(a) *Identifying information.* The name and address of the facility, including the name of the operator and owners.

(b) *Environmental permits.* A list of any environmental control permits held by or for the facility.

(c) *Description of operations.* A brief description of the nature, average rate of production and standard industrial classifications of the operation(s) carried out by such industrial user. This description should include a schematic process diagram which indicates points of discharge to the wastewater system from the regulated processes.

(d) *Flow measurement.* Information showing the measured average daily and maximum daily flow, in gallons per day, to the wastewater system from regulated process streams and other streams, as necessary, to allow use of the combined waste stream formula set out in 40 CFR 403.6(e).

(e) *Measurement of Pollutants.*

(i) Identify the categorical pretreatment standards applicable to each regulated process.

(ii) Submit the results of sampling, analysis and reporting identifying the nature and concentration (and/or mass, where required by the standard or by the city) of regulated pollutants in the discharge from each regulated process. Instantaneous, daily maximum and long-term average concentrations (or mass, where required) shall be reported. Sampling and analyses shall be performed in accordance with 403.12(b)(5).

(f) *Certification.* A statement reviewed by the user's authorized representative and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis—and, if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the pretreatment standards and requirements.

(g) *Compliance schedule.* If additional pretreatment or O&M will be required to meet the pretreatment standards, the shortest schedule by which the user will provide the additional pretreatment. The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standards. The following conditions shall apply to this schedule.

(i) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the user to meet the applicable pretreatment standards (for example, hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction and beginning and conducting routine operation).

(ii) No increment referred to in division (i) above shall exceed nine months.

(iii) Not later than fourteen (14) days following each date in the schedule and the final date for compliance, the user shall submit a progress report to the director, including, as a minimum, whether or not it complied with the increment of progress to be met on that date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay and the steps being taken by the user to return the construction to the schedule established. In no event shall more than nine (9) months elapse between the progress reports to the director.

(iv) In no event shall more than nine (9) months elapse between such progress reports to the director.

(h) Within sixty (60) days after modification of a categorical pretreatment standard by a removal allowance, the combined wastestream formula, a fundamentally different factors variance, or after more than one of these modifications, the user shall submit any necessary amendments to the information requested by the certification provision at Section 28-31(1)(f) and the schedule at Section 28-31(1)(g).

(2) *Compliance date report.* Within ninety (90) days following the date for final compliance with applicable categorical pretreatment standards or, in the case of a new source, following commencement of the introduction of wastewater into the wastewater system any user subject to such pretreatment standards and requirements shall submit to the director a report containing the information described in Section 28-31(1) of this chapter. For users subject to equivalent mass or concentration limits established in accordance with the procedures in 40 CFR 403.6(c), this report shall contain a reasonable measure of the user's long-term production rate. For all other users subject to categorical pretreatment standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the user's actual production during the appropriate sampling period. This report must be signed and certified in accordance with Section 28-31(1)(f).

(3) *Periodic compliance reports.*

(a) All SIUs and PIUs shall, at a frequency determined by the director but in no case less than twice per year (in June and December) submit a report indicating the nature and concentration of pollutants in the effluent which are limited by the pretreatment standards and the measured or estimated average and maximum daily flows for the reporting period. Periodic compliance reports of categorical industrial users must be signed and certified in accordance with Section 28-31(1)(f) of this chapter.

(b) All wastewater samples must be representative of the industrial user's discharge. Wastewater monitoring and flow measurement facilities shall be properly operated, kept clean and maintained in good working order at all

times. The failure of an industrial user to keep its monitoring facility in good working order shall not be grounds for the industrial user to claim that sample results are unrepresentative of its discharge.

(c) If an industrial user subject to the reporting requirement in and of this section monitors any pollutant more frequently than required by the wastewater system, using the procedures prescribed in Section 28-31(1)(e) of this chapter, the results of this monitoring shall be included in the report.

The sampling and analysis required in paragraphs (a), (b) and (3) of this section may be performed by the city in lieu of the industrial user. Where the wastewater system performs the required sampling and analysis in lieu of the industrial user, the user will not be required to submit the report.

(4) *Notice of violation / repeat sampling and reporting.* If sampling performed by an industrial user indicates a violation, the user must notify the director within twenty-four (24) hours of becoming aware of the violation. The user shall also repeat the sampling and analysis and submit the results of the repeat analysis to the director within thirty (30) days after becoming aware of the violation. The industrial user is not required to resample if the wastewater system performs monitoring at the industrial user at least once a month or if the wastewater system performs sampling between the industrial user's initial sampling and when the industrial user receives the results of his/her sampling.

A user shall submit oral notice of an unanticipated bypass that exceeds applicable pretreatment standards to the director within twenty-four (24) hours from the time the user becomes aware of the bypass. A written submission shall also be provided within five (5) days of the time the user becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned

to reduce, eliminate and prevent reoccurrence of the bypass. The director may waive the written report on a case-by-case basis if the oral report has been received within twenty-four (24) hours.

(5) *Report of changed conditions.* Each user is required to notify the director of any planned changes to the industrial user's operations or system which might alter the nature, quality or volume of its wastewater at least sixty (60) days before the change.

(a) The director may require the industrial user to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a wastewater discharge permit application.

(b) The director may issue or modify an existing wastewater discharge permit or ICD.

(c) No user shall implement the planned changed conditions, until and unless the director has responded to the industrial user's notice.

(d) For purposes of this requirement flow increases of twenty (20) per cent or greater, and the discharge of any previously unreported pollutants, shall be deemed significant.

(6) *Reports of potential problems.*

(a) In the case of any discharge, including, but not limited to, accidental discharges, discharges of a non-routine, episodic nature, non-customary batch discharge, or a slug load which may cause potential problems for the wastewater system, it is the responsibility of the industrial user to immediately orally notify the director of the incident. This notification shall include the location of discharge, type of waste, concentration and volume, if known, and corrective actions taken by the industrial user.

(b) Within five (5) days following such discharge, the industrial user shall, unless waived by the director, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the industrial user to prevent similar future occurrences. Such notification shall not relieve the industrial user of any expense,

loss, damage or other liability which may be incurred as a result of damage to the wastewater system, natural resources or any other damage to person or property; nor shall such notification relieve the industrial user of any fines, civil penalties or other liability which may be imposed by this chapter or other applicable law.

(c) Failure to notify the city of potential problem discharges shall be deemed a separate violation of this chapter.

(d) A notice shall be permanently posted on the industrial user's bulletin board or other prominent place advising employees whom to call in the event of a discharge described above. Employers shall ensure that all employees, who may cause or suffer such a discharge to occur, are advised of the emergency notification procedure.

(7) Users must provide any and all other reports required by 40 CFR 403.12.

(8) Prior to installation and implementation of any plant and equipment that may affect the pretreatment, volume or discharge of wastewater or pollutants, the user shall submit designs of any proposed changes for review and approval to the director. Additional approvals as required by local, state or federal regulations are the responsibility of the user. No construction shall commence until the user has obtained all appropriate approvals in writing.

(9) Upon request of the director, a user must provide the following information:

(a) Discharge peak rate and volume over a specified time period;

(b) Analyses of wastewaters; pursuant to 40 CFR Part 136 or other validated procedures approved by the director;

(c) Information on raw materials, processes, and products affecting wastewater volume and quality;

(d) All relevant information on pollutants including type and quality;

(e) A blueprint documenting the user's property showing sewer and pretreatment facility location;

(f) Information on pretreatment facilities;

(g) Spill control and prevention information;

(h) Submission of all notices and self-monitoring reports from users as are necessary to assess and assure compliance with pretreatment standards and requirements including compliance schedules; and

(i) Such other information as may be required by the director.

(10) *Hazardous waste report*

(a) A user shall report discharge of waste that if otherwise disposed would meet the definition of a hazardous waste in accordance with 40 CFR 403.12(p). These reports shall be on forms supplied by the director.

(11) A user must notify the director immediately of all discharges that could cause problems for the wastewater system, including slug loadings.

(12) Recordkeeping requirements:

(a) For each sample taken to satisfy the requirements of this chapter, users shall record the following information:

(i) The exact place, date, and time of the sampling;

(ii) The type of sample;

(iii) The names of the person taking the sample, the person doing the analysis, and the laboratory where the analysis was done;

(iv) The dates the analyses were performed;

(v) The analytical techniques and methods used; and

(vi) The results of all required analyses.

(b) Users shall retain and preserve for no less than three (3) years all records relating to monitoring, sampling, and chemical analyses made by or on behalf of the user. If a record pertains to matters that are the subject of an order, litigation, or other enforcement action, then the user shall retain and preserve the record until all enforcement activities have concluded and all periods of limitations for

appeals have expired. Users shall make these records available upon request to the director for inspection and copying.

(13) *Public information.* All written information submitted to the director shall be available without restriction to any person upon request according to the Michigan Freedom of Information Act, unless:

(a) The user provides, at the time the user submits the information, a written notice to the director that the user claims that all or part of the information is exempt from disclosure according to the Michigan Freedom of Information Act; and

(b) The user demonstrates to the director's satisfaction that the information is a trade secret.

(c) When granted confidentiality, the portion of a report that might disclose trade secrets or secret processes shall not be made available for inspection by the public but shall be made available upon written request to governmental agencies for uses related to this ordinance, the NPDES, sludge or pretreatment programs provided, however, that the information shall be treated as confidential by the governmental agency, until such time the information has been determined to be non-confidential by the governmental agency. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-31 was: Charges as lien; collection by suit, discontinuing wastewater service for failure to pay.

Sec. 28-32. Monitoring, inspections, and surveillance.

(1) *Inspections:*

(a) Users of the wastewater system are subject to facility inspections and record review at the request of the director during all reasonable business hours, and in an emergency at any time. Said inspections may include, but are not limited to, monitoring of these users' operations.

(b) The premises of any user may be inspected at all reasonable hours for the purpose of determining whether any violation of this chapter exists and in an emergency at any time.

(c) When required by the director, a user of any property serviced by a building sewer carrying nondomestic wastes shall install a suitable structure(s) together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling, and measurement of the wastes. Such structure, when required, shall be accessible and safely located, and shall be constructed in accordance with plans approved by the director. The structure shall be installed by the user at his/her expense and shall be maintained by him/her so as to be safe and accessible at all times. Following approval and installation, such structures may not be removed without the consent of the director.

(d) If a user refuses to grant the director entry upon request, the director may seek an administrative warrant for an inspection from any court authorized to issue search warrants under Michigan law.

(e) In an emergency which creates an immediate and substantial danger to the health, safety, and welfare of individuals or property, the premises of a user may be inspected at any time and without permission or a warrant.

(2) *Monitoring and sampling.* Reports required by this chapter shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report. This data shall be representative of conditions occurring during the reporting period. The monitoring frequency as established by the director shall be sufficient to show compliance with all applicable standards and requirements.

(a) Users shall collect grab samples for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds. For all other pollutants, users shall collect flow proportioned composite samples collected over twenty-four (24) hours or the duration of the discharge if the duration of the discharge is less than twenty-four (24) hours unless otherwise indicated by the director. In such cases, users may use time proportioned composite samples, grab samples, or another type of sample that will provide a representative sample and has been approved by the director.

(b) For, baseline monitoring reports, users shall take a minimum of four (4) grab samples for the pollutants for which grab samples are taken.

(c) The director may require continuous monitoring for pH or other parameters. All sampling and analysis shall be performed in accordance with 40 CFR Part 136, standard methods or other methods if approved by the director. The use of "other methods" also requires E.P.A. approval.

(3) Monitoring locations shall not be changed without the approval of the director. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Prior to 6-30-97 the subject matter of § 28-32 was: Disposition of revenue.

Secs. 28-33—28-39. Reserved.

ARTICLE IV. HAULED WASTE

Sec. 28-40. Hauled Waste.

Hauled waste may be discharged only at the dump station located at the city water reclamation plant unless authorized in writing by the director. Hauled waste may be discharged only if all of the conditions of either (1) or (2) which are detailed below are met:

(1) The hauled waste is domestic waste and:

a. Consists only of septage waste;

b. Is delivered by a unit licensed for septage waste hauling under Michigan law. A copy of the current septage waste hauling license must be provided to the director prior to disposal.

(2) The hauled waste is a nondomestic waste and:

a. Consists only of a nonhazardous waste;

b. Is delivered by a unit licensed for hauling liquid industrial waste, under Michigan law. A copy of the license must be provided to the director prior to disposal;

c. The generator provides, in writing, a description of the origin of the waste, the identification of all pollutants, and certification that the waste is not hazardous by either listing or characteristic as defined by the Resource Conservation and Recovery Act (RCRA);

d. Prior to discharge of hauled waste, the generator shall provide sample analyses which demonstrates that the waste is not a RCRA characteristic hazardous waste and meets all local discharge limits and applicable categorical pretreatment standards.

e. Has been approved by the director prior to hauling to the city water reclamation plant.

f. Delivery times have been arranged with city water reclamation plant personnel prior to disposal.

(3) In addition to (1) or (2) above, the waste must meet any other applicable conditions imposed by the director.

(4) Upon delivering waste to the city water reclamation plant, a hauler must accurately complete and sign a form provided at the dump station. The form details the source of the waste and presents a certification statement that the waste is nonhazardous and the hauler understands the consequences for noncompliance. (Ord. No. 1639, § 2, 6-30-97)

Secs. 28-41—28-49. Reserved.

ARTICLE V. ENFORCEMENT AND PENALTIES

Sec. 28-50. Applicability.

(1) The city shall undertake the enforcement actions necessary to promote the purposes set forth in Article III, Section 28-40. The city has the primary responsibility for enforcing all applicable pretreatment standards and requirements. However, users may also be subject to citizen suits under 33 U.S.C. 1365 or enforcement actions by the State of Michigan (or department thereof) or the U. S. Environmental Protection Agency.

(2) The city may take any enforcement action at any time as appropriate to the circumstances of the case. The city is not required to take enforcement actions in the order in which they are presented in this section. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-51. Enforcement response plan.

(1) The director shall develop and implement an enforcement response plan. This plan shall contain procedures for investigating and eliminating noncompliance with pretreatment standards or requirements. At a minimum, the plan shall discuss:

(a) How the director will investigate instances of noncompliance;

(b) The various types of enforcement responses used by the city, the violations for which the responses will be used, and the timing of these responses; and

(c) The persons responsible for each response.

(2) The enforcement response plan provides only explanatory material and is merely informational in nature. The enforcement response plan does not create legal rights or obligations and does not limit the enforcement discretion of the city. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-52. Enforcement actions and penalties.

(1) *Civil remedies and penalties.* A user shall be liable to the city for a civil infraction and for all costs incurred by the city if:

(a) The user has violated any provision of Chapter 28, the Wastewater Use Rules and Regulations, local limits, a wastewater discharge permit, an ICD or an order issued hereunder or any other pretreatment standard or requirement; or

(b) The user's discharge, alone or in conjunction with other discharge(s), has caused the city to violate any requirement of its NPDES permit or increased the magnitude or duration of a violation; or

(c) An enforcement action against the city by the State of Michigan (or department thereof), the U.S. Environmen-

tal Protection Agency, or other person results in penalty or other liability being imposed upon the city as a result of any action by the user.

(2) *[Enforcement actions and penalties.]* The following enforcement actions or penalties are applicable to a user who violates (1)(a), (b) or (c) above:

(a) The user is subject to judicial or other equitable injunctive relief for noncompliance;

(b) The user is deemed to have committed a civil infraction subject to a civil fine of one thousand dollars ($1,000.00) per violation, as required by federal regulations, or such other maximum fine provided by law in an amount not to exceed one thousand dollars ($1,000.00). Procedures governing the issuance and service of civil infraction citations shall be governed by applicable state laws and by Kalamazoo City Code of Ordinances.

(c) The user is subject to relief for noncompliance through administrative actions up to and including termination of services; services of SIUs or PIUs that do not comply with their Individual Control Documents may be terminated;

(d) The user is subject to immediate termination of wastewater system service in case of emergency to health, safety, welfare, or the environment, as determined by the director. The city may seek any other remedies allowed by law for any violations of this chapter; an action for civil penalties/remedies is not a bar to or a prerequisite to taking any other action against a user.

(3) *Criminal prosecution.*

(a) A user who knew or should have known that the user's action or inaction violates any provision of Chapter 28, the Wastewater Use Rules and Regulations, local limits, a wastewater discharge permit, ICD, or an order issued hereunder, or any other pretreatment standard or requirement shall, upon conviction, be guilty of a misdemeanor, punishable by a fine up to five hundred dollars ($500.00), or imprisonment for not more than ninety (90) days or both.

(b) A user who knowingly makes any false statements, representations or certifications in any application, record, report, plan or other documentation filed, or required to be maintained, pursuant to this chapter, tampers with, or knowingly renders inaccurate any monitoring device or method required under this chapter shall, upon conviction, be punished by a fine of up to five hundred dollars ($500.00), or imprisonment for not more than ninety (90) days, or both.

(c) A user who introduces any substance into the wastewater system which the user knew or should have known would cause personal injury or property damage shall, upon conviction, be guilty of a misdemeanor and be subject to a penalty of up to five hundred dollars ($500.00) and be subject to imprisonment for not more than ninety (90) days, or both. This penalty shall be in addition to any other cause of action for personal injury or property damage available under state law.

(4) *Violations.* The following provisions apply to any violation of this chapter:

(a) A separate violation occurs for each pollutant that exceeds an applicable pretreatment standard or requirement;

(b) Each day on which a violation occurs is a separate violation;

(c) If a user is in noncompliance with any pretreatment standard that is a monthly average, 30-day average, or 4-day average, then the user has one violation on each day of the averaging period;

(d) If, for any period, a user has violated both a maximum and an average pretreatment standard for a particular pollutant, then the total number of violations is the sum of the days on which the maximum standard was violated and the days in the averaging period;

(e) A separate violation occurs on:

(i) Each day that a report is late; and

(ii) Each day after an action required to be completed is not completed.

(f) Making a statement or certification in any application, record, report, plan, or other document or making a monitoring device or method inaccurate may result in penalties under the legal remedies available to the city.

(g) If a user's discharge results in a deposit, obstruction, damage, or an impairment of the wastewater system, then the user shall be liable to the city for the costs of cleaning, repairing, or replacing the affected components as well as other associated fines or costs.

(h) In addition to any fine recovered for a civil infraction, misdemeanor violation, or administrative penalty, the city may also recover the costs and fees associated with enforcement activities, including, but not limited to, the city's costs for sampling analysis, additional monitoring, investigating, pumping or treating of discharge, lost revenues or grants, damage or loss to the wastewater system or public resources, fines and penalties incurred by the city, time devoted to the action by any city employee or contractual staff and legal fees and costs incurred by the city. The user shall be notified of all charges assessed pursuant to this provision.

(i) The city shall give public notice, at least once per year in the largest daily newspaper published in the area, of all users who have been in significant noncompliance at any time during the previous twelve (12) months.

(j) An SIU or PIU may be found to be in violation of its ICD, which may result in termination of service, for the following reasons:

(i) Failure to accurately report wastewater constituents or other characteristics of the discharge;

(ii) Failure to report changes in wastewater pollutants or other characteristics;

(iii) Failure to submit timely reports;

(iv) Failure to allow the director or his/her representatives reasonable access to the user's premises for inspection or monitoring;

(v) Discharging any pollutant prohibited by this chapter;

(vi) Discharging a pollutant in excess of the amount allowed in the ICD or in excess of the amount allowed by this chapter;

(vii) Failure to pay the costs imposed upon the user by the director; or

(viii) Any other violation of the ICD, this chapter, an order of the director, a judicial order, or any other applicable local, state, or federal law.

(5) *Public nuisance.* Every violation of this chapter shall be deemed a public nuisance.

(6) *Notice of noncompliance.*

(a) If the director has determined that a user has violated or is violating this chapter, the Wastewater Use Rules and Regulations, the user's ICD, local limits, an order, any pretreatment standard or requirement, or any other applicable local, state, or federal law, then the director may issue to the user a notice of noncompliance.

(b) A notice of noncompliance shall identify the violation and the consequences of further violation.

(c) As appropriate to the circumstances, the notice of noncompliance may:

(i) Require description of the nature and cause of the violation;

(ii) Require a description of the remedy;

(iii) Require the submission of certain information before a certain date;

(iv) Provide notice that the city will be increasing its surveillance of the user; or

(v) Contain other provisions that promote a return to compliance.

(7) *Letter of violation.*

(a) If the director has determined that a user has violated or is violating this chapter, the Wastewater Use Rules and

Regulations, the user's ICD, local limits, an order, any pretreatment standard or requirement, or any other applicable local, state, or federal law or has failed to respond to a notice of compliance, then the director may issue to the user a letter of violation.

(b) Any letter of violation issued by the director shall:

(i) Be written;

(ii) Be either hand delivered or delivered by certified mail, return receipt requested;

(iii) State the nature of the violation;

(iv) Describe the administrative procedures that are available to review the director's determination.

(c) A letter of violation may require the user to:

(i) Attend a meeting with the director;

(ii) Submit a proposed compliance schedule; or

(iii) Take other actions to identify the nature of the violation, the cause of the violation, or a remedy for the violation.

(8) *Compliance order.*

(a) A compliance order may be issued at the discretion of the director, and specifically details the method and means a user must follow to correct violations of this chapter, the Wastewater Use Rules and Regulations, local limits, ICD, an order, pretreatment standard or requirement, or any other applicable local, state or federal law, in order to come into compliance. The order may contain a compliance schedule detailing time frames within which the user must come into compliance. The order shall be written, describe the administrative procedures that are available to review the director's determination and be hand delivered or delivered by certified mail, return receipt requested.

(b) If the user fails to adhere to the compliance order and/or fails to achieve compliance, the director shall take further appropriate action.

(c) If a user acts in full accordance with a compliance schedule, other than SNC publication, no further enforcement actions need be issued for parameter violations addressed by the schedule.

(9) *Notice of administrative penalty.* When noncompliance warrants the exacting of a monetary penalty or cost recovery, the director may issue a notice of administrative penalty which may include a compliance order.

(10) *Show cause order.* A show cause order may be issued by the director. The show cause order shall direct the user to explain its noncompliance and show cause why more severe enforcement actions, up to and including termination of services, should not be carried out.

(11) *[Cessation of discharges.]* After a user has received notice that the director has revoked the user's ICD, the user shall immediately cease all discharges as required by the director to the wastewater system, and the director shall take all steps necessary to assure that no further such discharges occur.

(12) *Effect of director approval of plans, specifications, or operating procedures.* Director approval of plans, specifications, or operating procedures does not entitle a user to relief from enforcement actions if the user does not achieve compliance with the applicable pretreatment standards or requirements. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-53. Administrative review (due process).

(1) The administrative review process is available under the following instances:

(a) Any user aggrieved by a decision of the director pursuant to this chapter may request an administrative hearing.

(b) Whenever the director has reason to believe that any user has committed or is committing a violation of this chapter, local limits, the Wastewater Use Rules and Regulations, ICD, an order, or any pretreatment standard or requirement, or any other applicable local, state or federal law, or the user has not responded to or corrected previous violations, the director may issue a written

notice to the user to appear for an administrative hearing to show cause why wastewater system service should not be terminated.

(c) In nonemergency situations, enforcement actions involving termination services will be stayed pending an administrative hearing.

(d) In emergency situations where wastewater system service is terminated, the user is entitled to an administrative hearing. Termination of service is not stayed pending an administrative hearing. If a user fails to comply with a termination of service, the city shall take such steps as it deems necessary, including severance of the sewer connection, to prevent or minimize damage to the wastewater system, the receiving stream, or endangerment to individuals.

(e) A request for an administrative hearing is deemed to include an appeal of permit or ICD conditions. Decisions made after an administrative hearing, not to reconsider a wastewater discharge permit, not to issue a wastewater discharge permit, or not to modify a wastewater discharge permit, shall be considered final administrative action for purposes of judicial review.

(f) Where the director initiates an administrative hearing, a written notice or show cause order shall be served upon the user by personal service or by certified mail, return receipt requested to the user's last known address.

(2) The administrative hearing shall be conducted by an impartial hearing officer appointed by the City Manager. The hearing officer will listen to any oral evidence and review any written documents requested. Admissibility of evidence at the administrative hearing shall be within the discretion of the hearing officer. The user shall be entitled to be represented at the administrative hearing in person or by an attorney at his/her own expense and shall be entitled to examine witnesses for the director and present evidence on his/her own behalf. A record shall be made of the proceedings, but such record need not be verbatim. The hearing officer shall render a written decision within fourteen (14) days after the administrative hearing detailing his decision.

(3) During the pendency, in any forum of any challenge to a director decision, a user affected by the decision shall comply with the decision. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-54. Affirmative defense.

(1) If the director brings an action against a user alleging a violation of Chapter 28, Sections 28-10(2); 28-10(3); 28-11(3); 28-11(4); 28-11(5); 28-11(6); or 28-11(7) then the user may assert as an affirmative defense that:

The user did not know or have reason to know that its discharge, alone or in combination with discharges from other sources, would cause pass through or interference; and

Either:

(a) A Wastewater Use Rule or Regulation designed to prevent pass through or interference was developed and the user was in compliance with the Wastewater Use Rule or Regulation immediately before and during the pass through or interference, or

(b) A Wastewater Use Rule or Regulation was not generated or applicable and immediately before and during the pass through or interference the user's discharge did not substantially change in volume or pollutants from the user's previous discharges when the city was in compliance with its NPDES permit and all applicable requirements for sludge use or disposal. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-55. Upset defense.

(1) *Upset* means an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the user. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(2) A user shall have an affirmative defense to an action brought for noncompliance with a categorical pretreatment standard if:

(a) The user demonstrates, through properly signed, contemporaneous operating logs or other evidence:

(i) The cause of the noncompliance;

(ii) That the noncompliance was unintentional and temporary;

(iii) That the facility was being operated in a prudent manner in compliance with all applicable operation and maintenance procedures; and

(iv) That the noncompliance was caused by factors beyond the reasonable control of the user and not caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation; and

(v) The user reports the noncompliance according to Section 28-31. (Ord. No. 1639, § 2, 6-30-97)

Sec. 28-56. Appeals.

If a user is aggrieved by a decision of the hearing officer, the user shall have the right to appeal that decision by way of an action for superintending control in the Kalamazoo County Circuit Court. Such an appeal shall be filed within twenty-one (21) days of the decision at issue, and shall be governed by applicable Michigan Court Rules. (Ord. No. 1628, § 1, 11-18-96)

Secs. 28-57—Sec. 28-69. Reserved.

ARTICLE VI. SERVICE CHARGES

Sec. 28-70. System to be operated on rate basis.

From and after April 1, 1980, the wastewater system shall be operated and maintained, on the rate basis as authorized by law and provided for in this chapter. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Formerly codified as § 28-2 by Ord. No. 1190, § 1, 3-3-80; codified as § 28-70 pursuant to Ord. No. 1639, § 2, 6-30-97)

Sec. 28-71. Connection charges.

(1) The City Manager is hereby authorized, with the consent of the City Commission, to determine and establish a schedule of construction charges for the various sizes and types of sanitary sewer connections for each calendar year. Each schedule shall become effective when approved by motion duly adopted by the City Commission. Such schedule of charges shall be based on the following, as applicable:

(a) Recovery of all costs normally incurred for this type of construction.

(b) The size and length of pipe to be used for connection.

(c) Extra costs of construction during winter months.

(d) Repair or replacement of pavement and sidewalk.

(e) Exceptional surface repairs, including landscaping.

(2) The director may establish advance deposits for sanitary sewer connection construction charges for each calendar year.

(a) Advance deposits toward sanitary sewer connection construction charges established under this section shall be made before construction. Any balance owed shall be due within thirty (30) days after billing. Interest at the rate of one (1) percent per month shall be charged upon any delinquent unpaid balance. If such unpaid balance, with interest, is not paid within six (6) months, that fact shall be reported to the City Commission for the establishment for a lien against the real estate. (Ord. No. 1639, § 2, 6-30-97)

Editor's note—Formerly codified as § 28-6 by Ord. No. 1190, § 1, 3-3-80; Ord. No. 1334, §1, 9-24-84; Ord. No. 1576, § 1, 5-31-94; codified as § 28-71 pursuant to Ord. No. 1639, § 2, 6-30-97.

Sec. 28-72. To be charged for all connections; basis, meters.

(1) The rates to be charged for wastewater service furnished by the wastewater system shall be charged to all buildings or premises having any connection with the system. Such rates shall be based upon the water consumption of the user's premises, including water from public and private supplies, or at the

election of the user, the amount of wastewater discharged into the wastewater system, except that the service charge shall be based upon the size of the water meter.

(2) The owner of any building or premises receiving water from any source other than the city water department shall register the same with the director and shall arrange to have suitable metering facilities installed at his own expense to measure such private supply. The meters shall be provided, maintained, and read by the water department, for which the customer shall be charged the applicable water service charge in addition to the established charges for wastewater services. In any interim period allowed by the director prior to such installation, the director may establish such charges as he deems equitable, considering the anticipated wastewater discharge.

(3) Any user of the wastewater system may elect to rearrange his water supply pipes and metering, for the purpose of eliminating from the total water consumption applicable to wastewater charges the water not running to the sanitary sewers, or he may elect to establish metering facilities registering the discharge from his premises to the sanitary sewers. All such arrangements shall be made subject to the approval of the director, and the expense thereof, including installation, maintenance, and operation, shall be borne by the user.

(4) No statement contained in this section shall be construed as preventing any special agreement or arrangement between the city and any industrial user whereby an industrial waste of unusual strength or character may be accepted by the city for treatment. Any user who enters into a special agreement or arrangement with the city shall be subject to all user and industrial costs or fees established in the special agreement. No special agreement shall be entered into which is in conflict with Section 307 of Public Law 92-500 or with any other local, state, or federal law or regulation. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-73. Rates established.

(1) Each user of the treatment works shall pay charges equal to the sum of those set out in subsections (a) and (b) below, according to the service charge (meter reading, billing expense

and allocated infiltration/inflow costs) in (a) and the commodity charge (quantity of wastewater at average domestic strength and septic haulers at higher strengths as indicated) in (b). For nonmaster metered municipal (wholesale) customers (City of Galesburg and a portion of the City of Portage), the commodity charge has been increased above the master metered municipal (wholesale) customer class to account for infiltration and inflow.

Industrial users subject to the requirements of federal regulations as promulgated by the United States Environmental Protection Agency shall also pay for industrial surveillance and industrial pretreatment program charges (laboratory tests, surveillance costs, inspection charges per laboratory test) in (c) below.

Commercial or industrial users whose wastewater strengths are monitored and tested by city technical services staff shall pay quantity/quality charges (quantity, BOD, SS and NH_3) in (d) below. Any commercial or industrial user, who is not monitored by city technical services staff, and who believes that their wastewater strengths are below average domestic wastewater strengths (BOD—236 mg/l, SS—168 mg/l, NH_3—23 mg/l) may document their wastewater strengths to the satisfaction of the director (or pay the cost of sampling and testing by city technical services staff) and shall be allowed to pay quantity/quality rates in (d) below.

Septage haulers whose wastewater strengths are below the amounts in (2) below may document their wastewater strengths to the satisfaction of the director (or pay the cost of sampling and testing by city technical services staff) and shall be allowed to pay quantity/quality rates in (d) below.

Charges within each subsection are listed by OM&R (operation, maintenance, and replacement) cost and capital costs when applicable. The system of OM&R and capital charges shall be reviewed annually and revised periodically as required to maintain the proportionality of charges and generate sufficient revenue to meet revenue requirements:

(a) *Service charges.* The following service charges shall apply to all users connected or required to be connected regardless of quantity of wastewater discharged. The service

charge is a user charge, and it contains billing and inflow and infiltration charges for retail customers. For municipal (wholesale) customers with a master meter, the service charge contains billing costs only, since inflow and infiltration are included in their metered flows.

Service charges (minimum charges per billing period):

Inside City, Quarterly

Meter Size (inches)	*OM&R ($/bill)*	*Capital ($/bill)*	*Total ($/bill)*
⅝	6.22	1.98	8.20
¾	6.56	2.18	8.74
1	7.60	2.77	10.37
1½	8.99	3.56	12.55
2	12.80	5.74	18.54
3	40.88	21.77	62.65
4	51.28	27.70	78.98
6	75.54	41.56	117.10

Outside City, Quarterly

Meter Size (inches)	*OM&R ($/bill)*	*Capital ($/bill)*	*Total ($/bill)*
⅝	6.22	4.44	10.66
¾	6.56	4.89	11.45
1	7.60	6.22	13.82
1½	8.99	7.99	16.98
2	12.80	12.88	25.68
3	40.88	48.84	89.72
4	51.28	62.16	113.44
6	75.54	93.25	168.79

Inside City, Monthly

Meter Size (inches)	*OM&R ($/bill)*	*Capital ($/bill)*	*Total ($/bill)*
⅝	3.91	0.66	4.57
¾	4.02	0.73	4.75
1	4.37	0.92	5.29

Meter Size (inches)	*OM&R ($/bill)*	*Capital ($/bill)*	*Total ($/bill)*
1½	4.83	1.19	6.02
2	6.10	1.91	8.01
3	15.46	7.26	22.72
4	18.93	9.23	28.16
6	27.02	13.85	40.87
Municipalities	-	-	-
Dewatering:	2.75	-	2.75
Septage haulers	2.75	-	2.75

Outside City, Monthly

Meter Size (inches)	*OM&R ($/bill)*	*Capital ($/bill)*	*Total ($/bill)*
⅝	3.91	1.48	5.39
¾	4.02	1.63	5.65
1	4.37	2.07	6.44
1½	4.83	2.67	7.50
2	6.10	4.29	10.39
3	15.46	16.28	31.74
4	18.93	20.72	39.65
6	27.02	31.08	58.10
Municipalities	2.75	-	2.75
Dewatering	2.75	-	2.75
Septage haulers	2.75	-	2.75

(b) *Commodity charges:*

Inside City

	OM&R ($/m³)	*Capital ($/m³)*	*Total ($/m³)*
Residential*	0.249	0.078	0.327
Commercial	0.249	0.078	0.327
Industrial	0.249	0.078	0.327
Dewatering	0.249	0.078	0.327
Septage haulers**	11.273	1.233	12.506

Outside City

	OM&R ($/m³)	*Capital* ($/m³)	*Total* ($/m³)
Residential*	0.249	0.157	0.406
Commercial	0.249	0.157	0.406
Industrial	0.249	0.157	0.406
Dewatering	0.249	0.078	0.327
Septage haulers**	11.273	1.233	12.506
Municipalities:			
Master-metered	0.185	0.043	0.228
Nonmaster-metered	0.201	0.050	0.251

m^3 = cubic meters

*Summer water consumption used in calculation of wastewater bills shall not exceed 120% of winter quarter consumption for quarterly users whose winter quarter water consumption is less than two hundred (200) cubic meters and monthly customers whose winter quarter water consumption does not exceed sixty-six (66) cubic meters per month.

**Septage haulers average strength wastewater: BOD—6,000 mg/l, SS—14,000 mg/l and Ammonia—157 mg/l.

. (c) *Industrial surveillance and industrial pretreatment program charges:*

	OM&R	*Capital*	*Total*
Industrial Surveillance Charges:			
Laboratory test-$/test	3.90	-	3.90
Other surveillance costs-$/sample	84.00	-	84.00
Industrial pretreatment program:			
Program charges per lab test-$/test	66.13	0.17	66.30

(d) *Quality/quantity Charges:*

Quantity Charge

	OM&R ($/m³)	*Capital* ($/m³)	*Total* ($/m³)
Monitored Customers:			
Pharmacia & Upjohn	0.039	0.019	0.058
Georgia Pacific	0.072	0.027	0.099

	OM&R ($/m³)	*Capital* ($/m³)	*Total* ($/m³)
Fort Howard	0.054	0.019	0.073
Dewatering:			
Inside city	0.103	0.059	0.162
Outside city	0.103	0.133	0.236
Industrial - Inside city	0.103	0.059	0.162
Industrial - Outside city	0.103	0.133	0.236
Septage haulers	5.061	0.015	5.076

m^3 = cubic meters

BOD Strength Charge

	OM&R ($/kg)	*Capital* ($/kg)	*Total* ($/kg)
Monitored Customers:			
Pharmacia & Upjohn	0.342	0.032	0.374
Georgia Pacific	0.342	0.032	0.374
Fort Howard	0.342	0.023	0.365
Dewatering:			
Inside city	0.342	0.023	0.365
Outside city	0.342	0.032	0.374
Industrial - Inside city	0.342	0.023	0.365
Industrial - Outside city	0.342	0.032	0.374
Septage haulers	0.342	0.032	0.374

SS Strength Charge

	OM&R ($/kg)	*Capital* ($/kg)	*Total* ($/kg)
Monitored Customers:			
Pharmacia & Upjohn	0.289	0.071	0.360
Georgia Pacific	0.289	0.071	0.360
Fort Howard	0.289	0.056	0.345
Dewatering:			
Inside city	0.289	0.056	0.345
Outside city	0.289	0.071	0.360
Industrial - Inside city	0.289	0.056	0.345
Industrial - Outside city	0.289	0.071	0.360
Septage haulers	0.289	0.071	0.360

NH_3-N Strength Charge

	OM&R ($/kg)	*Capital ($/kg)*	*Total ($/kg)*
Monitored Customers:			
Pharmacia & Upjohn	0.725	0.205	0.930
Georgia Pacific	0.725	0.205	0.930
Fort Howard	0.725	0.149	0.874
Dewatering:			
Inside city	0.725	0.149	0.874
Outside city	0.725	0.205	0.930
Industrial - Inside city	0.725	0.149	0.874
Industrial - Outside city	0.725	0.205	0.930
Septage haulers	0.725	0.205	0.930

kg = kilograms

(2) In addition to the above charges, each user shall pay the charges for miscellaneous service and monitoring, as determined by the director. The charges may be revised by the director whenever, in his/her opinion, it is deemed appropriate. All charges shall be paid to the Department of Public Services, and all funds received as a result of the miscellaneous charges will be credited to the wastewater system receiving account.

(3) Any person or entity who is responsible for discharging prohibited material shall be charged the actual expense incurred by the city for handling, treatment and/or removal of said material in the wastewater system.

(4) Any user who is responsible for damage to the wastewater system shall be charged the full cost of repair of damage to the wastewater system. The cost shall include but is not limited to labor, equipment, materials, and administrative expense, interest on borrowed funds, engineering, legal or other professional fees or expenses charged to the city by other utilities or departments and any and all fines, costs, penalties or damages imposed upon the city by the United States, the State of Michigan, or any court or administrative agency.

(5) Customers will be notified at least once per year how much they are being charged for their proportional operation, maintenance, and replacement costs, as required by United States Environmental Protecton Agency regulations. (Ord. No. 1190, § 1,

3-3-80; Ord. No. 1293, § 1, 10-3-83; Ord. No. 1339, § 1, 1-28-85; Ord. No. 1370, § 1, 3-10-86; Ord. No. 1405, § 1, 2-16-87; Ord. No. 1507, § 1, 12-31-90; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-74. Classification of users for billing purposes.

(1) Users of the treatment works shall be divided into classes. Classes shall be groups of users for which the wastewater characteristics are approximately equal and services provided are essentially the same. Classes and subclasses of users are hereby established for capital charges as follows:

NONINDUSTRIAL USER CLASS

a. Individual metered
   - a.1 Inside city
   - a.2 Outside city

b. Master metered
   - b.1 Outside City

INDUSTRIAL USER CLASS

c. Individual metered
   - c.1 Inside city
   - c.2 Outside city

d. Contract industries served by Riverview Pumping Station.

e. Contract industries not served by Riverview Pumping Station.

The user charges shall result in the distribution of operation, maintenance, and replacement costs of the wastewater system within the jurisdiction of the city to each user class in proportion to such user's contribution of the total wastewater loading of the treatment works. Factors such as strength, volume and delivery flow rate characteristics shall be included to ensure a proportional distribution of the costs. The director may establish additional classes as are determined to be necessary.

(2) The demand charge provided in subsection 28-73(1) applicable to single-family residences within the individually metered nonindustrial class shall be computed on the basis of the size of the water meter actually on the water service to the residence.

(3) The commodity user charge provided in subsectiion 28-73(2) for individually metered users in both the industrial and nonindustrial classes and the contract industrial users shall include the cost of treating wastewater with a level of pollutants up to and including 250 mg/l BOD_5 or 625 mg/l COD and 290 mg/l SS.

The commodity user charge provided in subsection 28-73(2) for master metered users in both the industrial and nonindustrial classes shall include the cost of treating wastewater with a level of pollutants up to and including 250 mg/l BOD_5 and 290 mg/l SS.

(4) Residential customers and other small users whose water consumption as purchased from the water department is less than two hundred (200) cubic meters during the winter quarter shall be billed for wastewater service in the other three (3) quarters on the basis of the actual consumption of water with a maximum quantity for any quarter equal to one hundred twenty (120) percent of the winter quarter. The *winter quarter* is defined as a three-month billing period between November first of any one (1) year and April thirtieth of the subsequent year (both dates inclusive) in accordance with water meter reading and billing schedules as used by the water department. Where is evident that the water consumption during the winter quarter does not fairly reflect the yearly consumption for nonsprinkling purposes, the director may use such three-month period or average as reasonably appears to reflect normal waste after discharge from that residence as a basis for the wastewater disposal service bill. All other users shall be billed on a basis of water actually used in every billing period or actual wastewater discharged through a meter. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1495, § 3, 5-14-90; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-75. Applicability of demand charge to property not connected to sewer.

Properties which have water service or a water supply and abut a sanitary sewer and have not been connected thereto shall

become liable for payment of the demand charge prescribed in section 28-73 upon the expiration of a five-year period following the date when the sanitary sewer was accepted by the city as being ready for use. (Ord. No. 1190, § 1, 3-9-98; Ord. No. 1639, § 2, 6-30-97; Ord. no. 1649, § 1, 3-9-98)

Sec. 2-76. Reserved.

Sec. 28-77. Billing, responsibility for payment.

Wastewater service charges shall be billed quarterly, except that customers billed monthly for water shall be billed monthly for the wastewater service charge. The person paying or responsible for payment of the water bill shall, in like manner, be responsible for payment of the wastewater service bill. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-78. When due and payable; penalty and interest for delinquency.

All charges for wastewater service shall become due and payable on the date indicated on each bill. Payment made after such date shall include an additional five (5) percent of the amount due on the due date. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-79. Charges as lien; collection by suit, discontinuing wastewater service for failure to pay.

(1) The charges for wastewater service are hereby recognized to constitute a lien on the premises receiving such service. This lien shall become effective immediately upon providing wastewater service to the premises but shall be not enforceable for more than three (3) years after it becomes effective. Whenever any such charge against any property shall be delinquent for three (3) months, the city officials in charge of the collection thereof may certify to the tax assessing officer of the city the fact of such delinquency, whereupon such charge shall be entered upon the next roll as a charge against such premises and shall be collected and the lien thereof enforced in the same manner as general city

taxes against such premises are collected and the lien thereof enforced. Nothing in this section, however, shall be deemed to prevent the city from suing in a court of law to collect the amount due it for wastewater service charges as provided in subsection (3) below. In addition to the other remedies provided in this section, the city shall have the right to shut off and discontinue the supply of water service to any premises for the nonpayment of wastewater service charges when due in accordance with the procedure established in subsection (2) below.

(2) If a charge for wastewater service prescribed by this article is not paid within thirty (30) days after the billing therefor, and after the customer has been given notice and an opportunity to be heard as provided by law, all water service may be shut off and discontinued to the customer owing or liable for such charge. Water service shut off pursuant to this section shall not be restored until all sums due and owing have been paid in full, including a collection fee of ten dollars ($10.00) and appropriate security deposits as prescribed by resolution of the City Commission.

(3) At its option the city may, in addition to the remedies above, in its corporate name, bring suit in any court of competent jurisdiction for the collection of any wastewater service charge which, thirty (30) days after the billing therefor, has not paid. The production of the meter record or cost record shall be prima facie evidence of the liability to pay the amount therein shown to be due. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1273, § 1, 11-1-82; Ord. No. 1639, § 2, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Sec. 28-80. Disposition of revenue.

(1) The revenues of the wastewater system derived from the collection of rates established by this article are hereby ordered to be credited, as collected, to a separate account to be designated as the wastewater system receiving account (hereinafter referred to as the receiving account) and the revenues in such account shall be credited to the following accounts quarterly in the manner hereinafter specified for the purposes therein mentioned.

The revenues of the wastewater system may be deposited in such bank accounts and with such depositories as the City Commission may, by resolution or ordinance designate.

(2) Out of the revenue in the receiving account, there shall be credited quarterly to a separate account, designated as the operation and maintenance account, all funds collected from user charges to be used for the administration and operation of the system, including billing, accounting, postage and related costs, and such current expenses for the maintenance thereof as may be necessary to preserve the same in good repair and working order.

(3) There shall next be established and maintained a separate account, designated as the debt retirement account, which account shall be used solely and only for the purpose of paying the principal of an interest on the bonds of the system as are now or may hereafter be issued, except special assessment bonds. Any tax revenues designated for use in retiring such bonds shall likewise be credited to this account as and when received. There shall be set aside from time to time in such account at least a sufficient amount to meet the principal and interest requirements accruing in the current fiscal year.

(4) After all such funds have been credited as above provided, the revenues derived from the charges collected and taxes designated as aforesaid may be used for the purpose of construction, expansion, extension and improvement of the system.

(5) Any surplus "capital charge" revenues remaining at the end of any fiscal year, after the above requirements have been met, shall be credited to the system surplus account and shall be disposed of as directed by the City Commission. (Ord. No. 1190, § 1, 3-3-80; Ord. No. 1639, § 1, 6-30-97; Ord. No. 1649, § 1, 3-9-98)

Secs. 28-81—28-90. Reserved.

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Kalamazoo Water Reclamation Plant

Discharge Limitations

Discharges to the Kalamazoo Water Reclamation Plant are controlled by the following limitations:

POLLUTANT	DAILY MAXIMUM CONCENTRATE LIMIT (UG/L)
Cadmium, T	40
Chromium, T	4,670
Copper, T	2,230
Lead, T	110
Nickel, T	1,590
Zinc, T	5,300
Cyanide, T	250
Total Petroleum Hydrocarbon	100 (mg/L)
PH	6 2 - 9 8 S U.
BETX	15 (mg/L)

Prohibited Discharges

Condensed from the General Pretreatment Regulations and the Kalamazoo City Code of Ordinances.

1. PCB's - no discharged allowed. (0.0001 mg/l required detection limit)

2. Mercury - no discharge allowed. (0.0005 mg/l required detection limit)

3. Pollutants which cause a fire or explosion hazard including, but not limited to, waste streams with a closed cup flash point of less than 140 degrees Fahrenheit or 60 degrees Centigrade.

4. Solid or viscous pollutants in amounts which will cause obstruction in flow.

5 Any pollutant, including oxygen-demanding pollutants (BOD, etc) which will cause interference with wastewater treatment or which will pass through untreated.

6 Heat in amounts that will inhibit biological activity, but in no case heat in such quantities that the temperature at the plant exceeds 104 degrees Fahrenheit or 40 degrees Centigrade.

7. Pollutants which result in the presence of toxic gases, vapors, or fumes in a quantity that may cause health and safety problems for sewer workers or the general public.

8. Any trucked or hauled pollutants except at the designated discharge point at the Kalamazoo Water Reclamation Plant.

9. Radioactive wastes or isotopes, unless their disposal via wastewater is authorized by federal, state, and local regulations, and then only when discharged into the wastewater system does not cause damage or a hazard to the system, persons operating the system or the general public.

10 Wastewater discharged at a rate that upsets or interferes with the treatment process or causes a hydraulic surge.

11 Storm water, uncontaminated groundwater, and unpolluted non-contact cooling water.

In addition to these limitations, certain industrial discharges are subject to Categorical Pretreatment Standards.

CITY OF KALAMAZOO

RESOLUTION NO. 91-53

A RESOLUTION ADOPTING A SEWER USE REGULATION PURSUANT TO ORDINANCE NO. 28-18 OF THE MUNICIPAL CODE OF KALAMAZOO PERTAINING TO THE LIMITATION OF DISCHARGE OF CERTAIN POLLUTANTS INTO THE WASTEWATER TREATMENT SYSTEM

Minutes of a regular meeting of the City Commission of the City held on April 29, 1991, at 7:00 o'clock p.m., local time at the City Hall.

PRESENT, Commissioners: Ferraro, Haan, LaForge, Lipsey, Straits, Vice Mayor Moore, Mayor Annen

ABSENT, Commissioners: None

WHEREAS, Pursuant to section 28-18 of the Municipal Code of the City of Kalamazoo the Director of Public Utilities is empowered with the authority to issue regulations pertaining to the wastewater treatment system; and

WHEREAS, the Public Utilities Department of the City of Kalamazoo in conjunction with the operation of the wastewater treatment system and as required by its National Pollution Discharge Elimination System (NPDES) permit, has instituted an Industrial Pretreatment Program; and

WHEREAS, in accordance with its NPDES permit the Industrial Pretreatment Program must impose limitations on the discharge of certain pollutants that are harmful to the environment; and

WHEREAS, certain pollutants are not amenable to treatment in the Water Reclamation Plant and will pass through said plant untreated into the environment requiring limits to be placed upon the amount of discharge allowable of these pollutants into the wastestream;

NOW, THEREFORE, BE IT RESOLVED THAT

The Director of Public Utilities shall adopt and issue the attached sewer use regulation establishing pollutant discharge limits for untreatable pollutants as directed by section 28-18 of the Municipal Code of the City of Kalamazoo. This resolution shall be effective upon the date of authorization and enactment by the City Commission.

The above resolution was offered by Commissioner Ferraro, and supported by Commissioner Straits.

CITY OF KALAMAZOO, MICHIGAN
DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION PLANT

SEWER USE REGULATION # 1-89

1. Whenever a violation of Chapter 28 of the Kalamazoo Code or any statute, regulation,permit, or administrative order incorporated by or issued under or pursuant to said chapter occurs, the Director may assess a civil administrative penalty of not more than $500.00 per day violation, commencing with the beginning of said violation.

2. Any person against whom such a penalty is assessed may request a hearing pursuant to section 28-16(b) of the Kalamazoo Code, provided that said request is received by the Director within ten working days of receipt of the notice of the penalty. A person has received notice either upon actual receipt or, in the event actual receipt does not occur, when the U. S. Postal Service returns certified mail as unclaimed.

3. The hearing officer shall determine whether a violation has occurred and, if he finds a violation, the date(s), type(s), severity, and nature of the violation, and what level and amount of penalty is appropriate, not exceeding $500.00 per violation per day.

4. In determining the proper amount of penalty, the hearing officer shall consider the type, nature, severity, frequency, duration, preventability, potential and actual effects, and economic benefit (such as delayed or avoided costs or competitive advantage) of the violations(s), and the violator's recalcitrance and/or efforts to comply. If the violator wants its ability to pay or any other mitigating factor to be considered, the violator bears the burden of demonstrating the presence and degree of such factors. The fact that a penalty would cause severe financial damage or put a violator out of business is not determinative. If the violator has not made all good faith efforts to correct and terminate violations, mitigating factors shall not be considered.

5. Any penalty issued by the Director which is not challenged as provided herein or any penalty assessed by the hearing officer but not paid within 30 days of notification thereof shall be considered a charge for wastewater service under section 28-31 and subject to collection as provided in said section. The notice provisions of section 2 of this Regulation shall apply to the notification of penalty. No further administrative hearing is required.

Issued this 5th day of December, 1989.

Orlin K. Loen

Orlin K. Loen, Director
Public Utilities

SEWER USE REGULATION NO. 91-1

In accordance with the City of Kalamazoo Industrial Pretreatment Program and the Non-domestic User Control Program pollutant discharge limits are established as follows:

POLLUTANTS	DAILY MAXIMUM CONCENTRATION LIMIT (mg/L)
Cadmium (Cd)	0.040
Chromium (Cr)	4.670
Copper (Cu)	2.230
Lead (Pb)	0.110
Nickel (Ni)	1.590
Zinc (Zn)	5.300
Total Cyanide (CN)	0.250

Total mercury and total PCB's are pollutants completely prohibited from being discharged into the wastewater treatment system unless an industry exemption has been recognized by the Director of Public Utilities.

Issued this 29th day of April 1991.

Orlin K. Loen, Director
Public Utilities

SEWER USE REGULATION NO. 94-1

In accordance with the City of Kalamazoo Industrial Pretreatment Program and the Nondomestic User Control Program a pollutant discharge limit is established as follows:

POLLUTANT	DAILY MAXIMUM CONCENTRATION LIMIT (mg/l)
Petroleum Hydrocarbons	100

Compliance with this discharge limit shall be determined by using the analytical method described in the most recent edition of "Standard Methods For The Examination Of Water and Wastewater" for the measurement of Petroleum Hydrocarbons unless an alternative method has been recognized by the Director of Public Utilities.

Issued this 9th day of February, 1994.

Kenneth P. Collard
Public Utilities Director

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1190

AN ORDINANCE TO AMEND CHAPTER 28 OF THE KALAMAZOO CITY CODE (SEWERS AND WASTEWATER) TO BETTER PROTECT AND SERVE THE PUBLIC, THE ENVIRONMENT, THE WASTEWATER SYSTEM BY CHANGING CONDITIONS OF DISCHARGE, CONSEQUENCES OF IMPROPER DISCHARGE, AND RATES OF PAYMENT FOR SERVICE; REPEALING CONFLICTING SECTIONS; AND ESTABLISHING AN EFFECTIVE DATE.

THE CITY OF KALAMAZOO ORDAINS THAT:

Section 1. Chapter 28 of the Kalamazoo City Code is hereby amended to read as follows:

"ARTICLE I. IN GENERAL

Sec. 28-1 Definitions.

When used in this chapter, or rules and regulations adopted pursuant to this chapter, the following words, terms, and phrases shall have the meaning specified herein:

"Biochemical Oxygen Demand" or "BOD_5" means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at 20° centigrade, expressed in terms of weight and concentration as milligrams per liter.

"Capital Charges" shall mean those amounts paid by each premise connected to the treatment works to pay the debt service requirements and capital expenditures to enlarge or improve the wastewater facilities.

"Chapter" means Chapter 28 of the Kalamazoo City Code.

"Chemical Oxygen Demand" or "COD" means the quantity of oxygen utilized in the chemical oxidation of organic matter, expressed in terms of milligrams per liter.

"Compatible Pollutant " means those pollutants which the wastewater system is or may be designed to reduce or remove from wastewater in accordance with its NPDES Permit.

"Cooling Water" means the water discharged from any use such as air conditioning, refrigeration, or other cooling to which the only pollutant added is heat.

"Direct Water Cooling" means the use of water as a refrigerant or as a primary heat transfer medium.

"Director" means director or acting director of the Department of Public Works of the City or his designee or authorized representative.

"FWPCA" means the Federal Water Pollution Control Act as amended, or as that act may be hereafter amended.

"Garbage" means solid waste from the domestic or commercial preparation, cooking, dispensing, storage, handling or sale of food.

"Indirect Water Cooling" means the use of water to extract heat from a refrigerant or as a secondary heat transfer medium.

"Industrial Cost Recovery (ICR) Charge" shall mean that amount assessed each industrial user as defined in Sec. 28.19 to repay that portion of all Federal grant amounts allocable to the treatment of wastes from the industrial users of the wastewater facilities and capacity committed to their use.

"Industrial or Commercial Wastes" means the wastewater from the place of the user's business, trade, or profession.

"Industrial User" shall mean, for the purpose of INDUSTRIAL COST RECOVERY:

(a) Any nongovernmental, nonresidential user of the treatment works which discharges more than the equivalent of 25,000 gallons per day (gpd) of sanitary wastes and which is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented under one of the following divisions:

DIVISION A - Agriculture, Forestry, and Fishing.
DIVISION B - Mining.
DIVISION D - Manufacturing.
DIVISION E - Transportation, Communications, Electric, Gas, and Sanitary Services.
DIVISION I - Services.

In determining the amount of a user's discharge for purposes of industrial cost recovery, the City may exclude domestic Wastes or discharges from sanitary conveniences; or

(b) Any user of the treatment works that discharges wastewater to the treatment works which contains toxic pollutants or poisonous solids, liquids, or gases in sufficient quantity either singly or by interaction with other wastes, to contaminate the sludge of any municipal systems, or to injure or to interfere with any sewage treatment process, or which constitutes a hazard to humans or animals, creates a public nuisance, or creates any hazard in or has an adverse effect on the waters receiving any discharge from the treatment works.

"Industrial User" shall mean, for the purpose of the USER CHARGE SYSTEM, any user of the treatment works which:

(a) Is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented under the following divisions:

DIVISION A - Agriculture, Forestry, and Fishing.
DIVISION B - Mining.
DIVISION D - Manufacturing.
DIVISION E - Transportation, Communications, Electric, Gas, and Sanitary Services.
DIVISION I - Services; or

(b) Discharges wastewater containing pollutants which may interfere with the treatment process, may be toxic or incompatible, may interfere with the processing or disposal of the sludge, or may have an adverse effect on the receiving stream; or

(c) By definition, any industrial user for the purpose of industrial cost recovery shall also be an industrial user for the purpose of the user charge system.

"Infiltration" shall mean water other than wastewater that enters a sewer system (including building drains and building sewers) from the ground through such means as defective pipes, defective pipe joints, defective connections, or defective manholes. Infiltration does not include, and is distinguished from, inflow.

"Infiltration/Inflow" (I/I) shall mean the total quantity of water from both infiltration and inflow without distinguishing the source.

"Inflow" shall mean water other than wastewater that enters a sewer system (including building drains and building sewers) from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.

"Major Contributory Industry" means an industrial user of the wastewater system that:

(1) has a flow of 50,000 gallons or more per average workday; or
(2) has a flow greater than 5% of the flow carried by the municipal system receiving the waste; or
(3) has in its waste a toxic pollutant in toxic amounts

as defined in standards issued under section 307 of the FWPCA, or by the director; or

(4) is found by the director or State of Michigan, in connection with the NPDES Permit issued to the City, to have significant impact, either singly or in combination with other contributing industries, on the wastewater system or upon the quality of effluent from the wastewater system.

"mg/l" means milligrams per liter.

"Natural Outlet" means any outlet into a water course, pond, ditch, lake, or body of surface or ground water.

"Nonindustrial User" shall mean all users of the wastewater facilities not classified as an Industrial User for purposes of the user charge system.

"NPDES" or "National Pollutant Discharge Elimination System" means the program for issuing, conditioning, and denying permits for the discharge of pollutants from point sources into the navigable waters, territorial seas, and contiguous zone of the United States pursuant to section 402 of the FWPCA.

"pH" means the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.

"Pollutant" means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, residential, and agricultural waste.

"Pollution" means the man-made or man-induced alteration of the chemical, physical, biological, or radiological integrity of water.

"Pre-treatment" means application of physical, chemical, and/or biological processes to reduce the amount of pollutants in or alteration of the nature of the pollutant properties in wastewater prior to discharging such wastewater into the wastewater system.

"Pre-treatment Standards" means all applicable rules and regulations implementing section 307 of the FWPCA, as well as any nonconflicting state or local standards which may require more restrictive treatment of wastewater under the circumstances described in section 307.

"Properly Shredded Garbage" means garbage that has been shredded to such a degree that no particle shall be larger than 1/2 inch or 1.27 centimeters in any dimension and all particles can be carried freely in the wastewater under the flow conditions normally prevailing in the wastewater system.

"Recovered amounts" shall mean that revenue generated as a result of the Industrial Cost Recovery System.

"Recovery Period" shall mean 30 years or the useful life of the treatment works, whichever is less, except as otherwise defined herein

"Retained Amounts" shall mean 50% of the recovered amounts.

"Sanitary Sewer" means a pipe or system of pipes that convey wastewaters from residences, commercial buildings, industrial plants, institutions, or other structures as a part of the wastewater collection system.

"Sludge" shall mean the accumulated solids separated from liquids during the treatment of wastewaters.

"Storm Drain" or "Storm Sewer" means any drain or sewer intended expressly for the conveyance of storm water and surface water, street wash, or drainage or other unpolluted water.

"Suspended Solids" means the total suspended matter that floats on the surface of, or is suspended in, wastewater and that is removable by laboratory filtering.

"User" means any person who discharges or causes or permits the discharge of wastewater into the wastewater system and/or the owner or occupant of any property from which said discharge is made.

"Wastewater means water, or any liquid, whether or not containing pollutants, which is discharged or permitted to be discharged into the wastewater system.

"Wastewater System" means the complete wastewater collection, treatment, and disposal system of the City including all works, instrumentalities, or properties used or useful therein.

"Water Course" means any natural channel or body of water in which a flow of water occurs eitner continuously or intermittently.

Sec. 28-2 System to be operated on rate basis.

From and after April 1, 1980, the wastewater system shall be operated and maintained on the rate basis, as authorized by law and provided for in this chapter.

Sec. 28-3 Management of system.

The wastewater system of the City shall be and remain under the management, supervision, and control of the City Manager, who may employ or designate such person or persons in such capacity or capacities as he deems advisable to carry out the efficient

management and operation of the system. The Director, subject to the approval of the City Manager may make such rules, orders or regulations as he deems advisable and necessary to assure the efficient management and operation of the system, and to provide equitable charges for the services thereof, subject, however, to the rights, powers, and duties in respect thereto which are reserved by law to the City Commission.

Sec. 28-4 System records and budget.

(a) The City Manager shall cause to be maintained and kept proper books of records and account in which shall be made full and correct entries of all transactions relating to the wastewater system. Not later than three (3) months after the close of the fiscal year the City Manager shall cause to be prepared a statement, in reasonable detail, showing the cash income and disbursements of the system at the beginning and close of the operating year, and such other information as may be necessary to enable any taxpayer of the City or user of the service furnished to be fully informed as to all matters pertaining to the financial operation of the system during such year.

(b) A budget, showing in detail the estimated costs of administration, operation, and maintenance of the wastewater system for the next ensuing fiscal year, including billing, accounting, postage, and related costs and including an amount equal to the bond principal and interest due to be paid in said year, shall be prepared by the City Manager at the same time as he is required by the Charter to prepare the annual City budget, which budget shall be subject to the approval of the City Commission. The amounts transferred into the operation and maintenance fund during each year shall not exceed the amount set forth in such budget, unless approved by vote of the City Commission.

Sec. 28-5 Use of Public Sewers Required.

(a) It shall be the duty of the owner of any inhabited building, or of any building discharging pollutants into water, situated on land abutting or fronting on any street or alley in which a sanitary sewer has been laid, or in which a sanitary sewer shall hereafter be built, to connect such building, at his own expense, with the sewer adjacent thereto, within thirty (30) days after notice. (State law reference: MCLA 333.12751 through 333.12758.)

(b) It shall be unlawful for any person to place, deposit, or permit to be deposited in any unsanitary manner on public or private property within the City of Kalamazoo, or in any area under the jurisdiction of said City, any human or animal excrement, industrial waste, garbage, or objectionable waste. This paragraph shall not apply to the making or use of compost or fertilizer by said person on his or her own property if done in compliance with any and all laws, ordinances, and regulations as part of a lawful business or domestic agricultural activity which poses no substantial threat to public health, safety, or welfare and is not a common-law nuisance.

(c) It shall be unlawful to discharge to any natural outlet within the City of Kalamazoo, or in any area under the jurisdiction of said City, any wastewater or other polluted waters except where suitable treatment has been provided in accordance with all applicable rules and regulations of Local, State, and Federal regulatory agencies.

(d) Except for facilities approved by the Kalamazoo County Health Department in accordance with the County Public Health Code, Sewage Disposal Regulation, it shall be unlawful to construct or maintain any privy, privy vault, septic tank, cesspool, or other facility intended or used for the disposal of wastewater within the City of Kalamazoo.

Sec. 28-6 Connection charges.

Owners or occupants desiring to connect any premises with any sanitary sewer shall pay for such connecting sewer at a rate to be determined by the City Commission from time to time.

Sec. 28-7 Permit to connect generally.

(a) Permits for connections with sanitary sewers shall be issued by the City Treasurer. Such a permit shall not be issued until all assessments due and the charge for sewer connections have been paid to the City Treasurer and until the Director has determined that there is capacity available for the wastewater to be discharged in all downstream sewers, lift stations, force mains, and the wastewater treatment plant, including capacity for compatible wastes.

(b) The Director may require from any proposed user or from any existing user who is altering the composition of the wastewater, a compatibility study to demonstrate to the satisfaction of the Director that the wastewater to be discharged is compatible with the existing wastewater system, will not affect any requirements imposed upon the City, and will not adversely affect the wastewater system. Such study shall be at the expense of the user.

Sec. 28-8 Unauthorized connections.

No person not duly authorized shall make any connection with any of the sanitary sewers, or tap any main, lateral or private connecting sanitary sewer.

Sec. 28-9 Limitations on wastewater discharging.

(a) If any waters or wastes are discharged or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in Section 28-10,

and which in the judgment of the Director may deleteriously affect the wastewater system or carry through the system untreated any pollutant regulated by the NPDES Permit issued to the City; or constitute a hazard to human or animal life or to any water course receiving the treated effluent or the wastewater system; or violate any pre-treatment standards hereinafter established; or cause the wastewater system to violate its NPDES Permit or other applicable receiving water standard, the Director may:

1) Reject the wastes

2) Require pretreatment to an acceptable condition for discharge to the public sewers

3) Require control over the quantities and rates of discharge, and/or

4) Require payment to cover added cost of handling and treating the wastes not covered by existing taxes or sewer use charges under the provisions of Sections 28-25

(b) If the Director permits or requires the pre-treatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the State of Michigan, Department of Natural Resources, in accordance with the laws of the State of Michigan and regulations promulgated thereunder. The property owner shall not commence construction of such facility until he has obtained such approvals in writing from the Director and appropriate State agencies.

(c) All contributing industrial users as defined in Section 28-1 of the treatment facilities shall pretreat any pollutant in its wastewater which may interfere with, pass through untreated, reduce the utility of municipal sludge, or otherwise be incompatible with the treatment works. Pretreatment of such pollutants shall be in accordance with Section 307 of Public Law 92-500, 40 CFR 403, and as determined by the Director. All owner(s) of any source to which pretreatment standards are applicable, shall be in compliance with such standards within the shortest reasonable time, but not later than the date of compliance required by 40 CFR 403 or the date established by the Director, whichever first occurs. All owner(s) of any source to which pretreatment standards are applicable shall submit to the Director semi-annual notices regarding specific actions taken to comply with such standards. Such notices shall be submitted on the first day of the months of April and October.

(d) If any contributing industrial user proposes to pretreat its wastes, the design and installation of the plants and equipment shall be subject to the review and approval of the Director.

Sec. 28-10 Prohibited discharging.

No person shall convey, deposit, or cause or allow to be discharged, conveyed, or deposited into the wastewater system any pollutant other than a compatible pollutant which the system expressly agrees to accept from a user, or any wastewater containing any of the following:

(a) Oils and Grease

Fats, wax, grease, or oils in excess of 100 mg/l or containing substances which may solidify or become viscous at temperatures between 0° and 65° centigrade at the point of discharge into the wastewater system, or concentrations or amounts of oil, or grease from industrial facilities violating pre-treatment standards.

(b) Explosive Mixtures

Liquids, solids, or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion. Such prohibited materials include but are not limited to gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, and carbides.

(c) Noxious Materials

Solids, liquids, or gases from processes employed in the user's business, trade or profession which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for maintenance or repair.

(d) Improperly Shredded Garbage

Garbage which is not properly shredded garbage as defined in this chapter.

(e) Radioactive Wastes

Radioactive wastes or isotopes, unless their disposal via wastewater is authorized by federal, state, and local regulations, and then only when discharge into the wastewater system does not cause damage or a hazard to the system, the persons operating the system, or the general public.

(f) Excessive Levels of Toxic Substances

Any toxic substances in amounts which cannot be handled by the system or which exceed standards promulgated by the United States Environmental Protection Agency pursuant to section 307 (b) of the FWPCA, or toxic substances included in any regulations of the Michigan Department of Natural Resources which identify and prohibit discharge of toxic substances into the water of the state.

(g) Untreatable Pollutants

Any pollutant which deleteriously affects the wastewater system or process, or any pollutant which is regulated by the NPDES Permit issued to the City and which will pass untreated or unaffected by the treatment system.

(h) Discoloring Pollutants

Any pollutant which imparts a color to the wastewater in the wastewater system, which color cannot be removed by the system's treatment process or which is prohibited by the NPDES.

(i) Corrosive Wastes

Any wastewater having a pH lower than 6.2 or higher than 9.8, measured at the point of entry to the wastewater system, or having any other corrosive property capable of causing damage to any equipment or portion of the wastewater system or injury to the system's personnel.

(j) Solids

Solids or viscous substances in quantities or of such size capable of causing obstruction to the flow of sewers, or other interference with the proper operation of the wastewater system such as, but not limited to, ashes, bones, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, whole blood, paunch manure, hair, fleshings or entrails.

(k) Temperature

A temperature greater than 65°C (149°F) or less than 30°C (37.4°F).

Sec. 28-11 Water used for cooling purposes.

(a) The purpose of this section is to prevent "inflow" as hereinbefore defined and the overloading of the sewers of the City by the discharge thereinto of water used for cooling purposes.

(b) No equipment using direct or indirect water cooling may be installed in the City, unless a means of water disposal, other than discharge into the City's sanitary sewers, is provided. No person desiring to use any such equipment shall commence installing the same until there has been filed with the building official such information as in his judgment is necessary to enable him to determine whether or not such equipment meets the requirements of this section. No permit for the installation of any such equipment may be issued by the building official involving a connection to the City's storm sewers until a permit has been obtained from the Director.

(c) Any authorized agent of the City may enter onto the premises of any person using water as a cooling medium for equipment, any time that the sewers connected to such equipment become overloaded, and may order such equipment shut off. In the event it is not so shut off promptly, such agent of the City may shut the same off so that there cannot be any entry into the City sewers during the period the same is overloaded.

Sec. 28-12 Discharge into storm sewers.

(a) It shall be unlawful for any person to discharge or flow, or cause to be discharged or flowed, or permit or allow the same to be done from any premises owned or controlled by him, any water or fluid into any public storm sewer or drain or into any sewer, drain or pipe connected with or emptying into any public storm sewer, except waters naturally resulting from rainfall or the melting of snow and ice, or unpolluted cooling waters as provided for in Section 28-11.

(b) No person shall connect or attach any downspout, pipe or drain, or cause the same to be connected or attached, to any public storm sewer, without first having obtained permission, in writing, so as to do from the Department of Public Works. Application for such permission shall be filed with the Department of Public Works and shall state the location of the connection and the name and address of the owner and occupant of the premises to be connected and shall be accompanied by sufficient plans and specifications as to enable the Public Works Department to determine whether the same is proposed to be done in a good and workmanlike manner and in accordance with standard practices and so as not to endanger pedestrians and others using the public streets, alleys, and places. Upon compliance with the foregoing requirements, the Public Works Department shall issue such permit, but upon the express condition that the applicant shall not use the downspout, pipe or drain, or permit the use thereof, for any of the purposes other than those allowed and set forth in section 28-12 (a).

Sec. 28-13 Excessive discharge.

(a) No discharge shall exceed the peak flow rate projected by the user as a condition precedent to connection to the wastewater system.

(b) No wastewater shall be discharged at a rate which upsets or interferes with the treatment process or causes a hydraulic surge in the wastewater system.

(c) No unpolluted water shall be discharged into the system if the discharge would increase the hydraulic load on the wastewater system.

Sec. 28-14 Reporting violations.

(a) If, for any reason, a person discharges, or causes or permits to be discharged, any pollutant or wastewater containing a pollutant into the wastewater system in violation of this chapter, that person shall immediately thereafter notify the Director of said discharge to enable the Director to take any action necessary for the protection of the system or the prevention of any health hazard. Notification shall be given either as soon as the person has reason to know of the discharge, or immediately after the discharge, whichever is sooner.

(b) The Director may require a user of sewer services to provide information needed to determine compliance with this Chapter. These requirements may include:

1) Wastewaters discharge peak rate and volume over a specified time period.

2) Chemical analyses of wastewaters.

3) Information on raw materials, processes, and products affecting wastewater volume and quality.

4) Quantity and disposition of specific liquid, sludge, oil, solvent, or other materials important to sewer use control.

5) A plot plan of sewers of the user's property showing sewer and pretreatment facility location.

6) Details of wastewater pretreatment facilities.

7) Details of systems to prevent and control the losses of materials through spills to the municipal sewer. Any industry that has materials that could spill into the sewer system shall provide for containment of the material on site. Containment capacity shall be equal to the storage capacity provided for liquids, oils, or other toxic materials stored at the plant.

8) Such other information as may be required by the City's NPDES Permit.

(c) All measurements, tests, and analyses of the characteristics of waters and wastes to which reference is made in this Section and other Sections shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater," published by the American Public Health Association. All tests shall conform to EPA Regulation 40 CFR 136 "Guidelines Establishing Test Procedures for Analysis of Pollutants." Sampling methods, location, times, durations, and frequencies are to be determined on an individual basis subject to approval by the Director and other regulatory agencies.

Sec. 28-15 Procedures for enforcement.

(a) A violation of the provisions of this chapter shall be considered a public nuisance per se and any action authorized or permitted by law for the abatement of public nuisances may be instituted by the City in regard to such violation.

(b) Whenever the Director finds that a violation of this chapter is occurring and presents an emergency which threatens immediate, serious harm to any portion of the wastewater system or which threatens to or does create an immediate health hazard, the user's wastewater service may be terminated by order of the Director, pending further investigation and hearing under section 28-16.

(c) Whenever a person has violated any provision of this chapter, the City may take any legal action necessary to recover damages sustained by the City as a result thereof. Such damages shall include, but are not limited to, lost revenues from the federal or state government and any fines or other penalties which are the result of the aforesaid violation.

Sec. 28-16 Termination of Service

(a) Authority to Terminate

The Director shall have the authority to terminate wastewater service to any user who attempts to violate or violates any provision of this chapter, or who in any way attempts to avoid, delay, prevent, or interfere with the execution or enforcement of any provision of this chapter, or who fails to pay any charges, levied against him, her, or it, whether regular or extraordinary, under this chapter, or who attempts to violate or violates or attempts to avoid, delay, prevent or interfere with the execution or enforcement of any rule or regulation promulgated by the Director for compliance with or execution of this chapter, or who fails to appear at a hearing to meet a charge against him, her or it under this chapter.

(b) Hearing Procedures

1) In addition to any remedies provided elsewhere in this chapter, whenever the Director has reason to believe that any user has committed or is commiting an offense covered by section 28-16 (a), he may serve upon the user a written notice stating the nature of the alleged violation and describing the time for and the nature of required correction.

2) If the violation is not corrected as prescribed in the aforesaid notice, the Director may issue an order to the user to appear for a hearing and show cause why service should not be terminated.

3) The aforesaid notice and order to show cause shall be served upon the user by personal service, or in lieu thereof by certified mail, return receipt requested, to the user's last known address.

4) The hearing shall be conducted by the City Manager or a hearing officer appointed by him, who shall render a written decision determining whether the user's service shall be terminated and stating reasons therefor. Admissibility of evidence at the hearing shall be within the discretion of the Manager or officer.

5) The user shall be entitled to be represented at the hearing in person or by an attorney at his own expense and shall be entitled to examine witnesses for the City and present evidence on his own behalf. A record shall be made of the proceedings, but such record need not be verbatim.

6) The user whose service is terminated without prior hearing may request such a hearing as described in section 28-16 (b) (4) and (5) above, to permit him to show why his service should not have been terminated and should be resumed. Such requests shall be granted, but service will not be resumed unless so ordered by the City Manager or hearing officer.

Sec. 28-17 Inspection and monitoring of users.

(a) Industrial or commercial users of the wastewater system are subject to inspection of their facilities and records pertaining to raw material use at the request of the Director during all reasonable business hours, and in an emergency at any time. Said inspections may include, but are not limited to, monitoring of these users' operations. The City recognizes proper identification is necessary for access to the facilities and will arrange any appropriate prior security clearances.

(b) The premises of any user may be inspected at all reasonable hours for the purpose of determining whether any violation of this chapter exists.

(c) When required by the Director, the owner(s) of any property serviced by a building sewer carrying industrial wastes shall install a suitable structure(s) together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling, and measurement of the wastes. Such structure, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the Director. The structure shall be installed by the owner(s) at his expense and shall be maintained by him so as to be safe and accessible at all times. Following approval and installation, such meters may not be removed without the consent of the Director.

(d) If a user refuses to grant the Director entry upon request, the Director may seek an administrative warrant for an inspection from any court authorized to issue search warrants under Michigan law. In an emergency which creates an immediate and substantial danger to persons or property, the premises of a user may be inspected at any time and without permission or a warrant.

(e) No trade secret or patented process disclosed to the City under this ordinance shall be disclosed to other nongovernmental persons. Such information shall be confidential and exempt from release to nongovernmental persons, in accordance with section 13 (1) (g) of the Michigan Freedom of Information Act.

Sec. 28-18 Rules and Regulations

(a) With approval of the City Commission and for the purpose of preventing, discontinuing, or correcting any violations of this chapter, the Director may adopt and establish rules and regulations for the enforcement of this chapter.

(b) Rules and regulations adopted under this section may include, but are not limited to, imposing requirements upon industrial or commercial users to submit plans for the pre-treatment of wastewater, to install equipment to monitor the nature and quantity of the wastewater being discharged into the system, and/or to keep records.

Sec. 28-19 Industrial Cost Recovery System

(a) Purpose of Industrial Cost Recovery (ICR)

Commencing on the first day any publicly financed treatment works construction project, including a Federal grant thereon, is placed in operation, there is levied and assessed upon each industrial user of the treatment works an Industrial Cost Recovery (ICR) charge or rental. The ICR charge is for the purpose of recovering from each industrial user that portion of the Federal grant amount used to construct facilities for the treatment of its industrial waste. The recovery period for the wastewater treatment plant improvements (Contracts 37-41) shall be 30 years, or the useful life of the project, or as long as required by EPA, whichever is less.

(b) Industrial User's Share

An industrial user's share shall be based on all factors which significantly influence the cost of the construction project, including strength, volume, and delivery rate characteristics.

(c) Charges

The Industrial Cost Recovery Charges shall be as provided in Section 28-25, and all industries shall pay Industrial Cost Recovery charges based on flow as a minimum. The flow rate shall include charges for waste loadings at concentrations equal to 250 mg/l BOD_5, 290 mg/l SS, and 50 mg/l TKN, unless the industry shall substantiate different waste concentrations. Industries that discharge wastewater at concentrations exceeding 250 mg/l BOD_5, 625 mg/l COD, 290 mg/l SS, or 50 mg/l TKN shall be charged for the excess at the unit charges as provided in Section 28-25. A charge shall be made for BOD_5 or COD, but not both, at the option of the City. A deduction per employee per year shall be made for domestic uses within the industry. Employment figures shall be furnished by the industry to the City on a quarterly basis. The average number of employees for the quarter will be used in the deduction calculations. The deduction is based on the average contribution to the industrial waste by each employee as follows:

Flow	19 m^3/yr
BOD_5	4.7 kg/yr
SS	5.5 kg/yr
TKN	1.0 kg/yr

(d) Monitoring Program

The Director shall establish and maintain a monitoring program to obtain the information required to assess the Industrial Cost Recovery charges. The Director may require any industry to collect and analyze samples and furnish the results to the City.

(e) Return of Recovered Amounts

The City shall return 50% of the amounts received from industrial users, together with any interest earned, to the U.S. Treasury on an annual basis, beginning one year after the facilities are placed in service.

(f) Retained Amounts

The City shall retain 50% of the amount recovered from industrial users.

1) A portion of the amouhts which the City retains may be used to pay the incremental costs of administration of the ICR system. The incremental costs of administration are those costs remaining after deducting all costs reasonably attributable to the administration of the user charge system. The incremental costs shall be segregated from all other administrative costs of the City.

2) A minimum of 80% of the amounts the City retains, after deducting the incremental costs of administration of the ICR system, together with interest earned, shall be used solely for eligible costs of any expansion, upgrading, or reconstruction of the treatment works necessary to meet the requirements of the FWPCA. The Director shall obtain written approval of the Regional Administrator of the EPA prior to commitment of these funds. The money so collected shall be kept in a separate account and shall be invested in (1) obligations of the U.S. Government; or (2) obligation guaranteed as to principal and interest by the U.S. Government; or (3) shall deposit such amounts in accounts fully collateralized by obligations of the U.S. Government or by obligations fully guaranteed as to principal and interest by the U.S. Government or any agency thereof.

(g) Use of Remaining Amount

The remaining amount of the retained amounts shall be deposited in the Wastewater System Receiving Account. The remaining amount may not be used for construction of industrial pretreatment facilities or rebates to industrial users for costs incurred in complying with user charge or industrial cost recovery requirements.

(h) Letters of Intent

All significant users as defined by U.S. EPA, of the wastewater system shall furnish to the Director a signed letter of intent to pay that portion of all Federal grant amounts allocable to the treatment of its wastes. Each such user shall include a statement of the industrial user's intended period of use of the treatment works.

(i) Review of New Projects

The Director shall review all new projects involving Federal allocations to determine the industrial user class' influence on the capital costs of the project. The Director shall then assess an ICR charge, in addition to any existing ICR charge to obtain the required revenue from each industrial user.

(j) Responsibility for Recordkeeping

The Director shall be responsible for collecting and maintaining the needed records for implementation of this section.

(k) Appeal Procedure

The Director shall establish an administrative appeal procedure whereby individual industrial users may have an opportunity to be heard regarding the reasonableness of the allocations and ICR assessments imposed upon them.

(l) Conformance with Federal Regulations

The Industrial Cost Recovery System shall be in conformance with the requirements set forth in 40 CFR 35.928.

Sec. 28-20 Miscellaneous

(a) Storm Water Discharges

1) No person(s) shall discharge or cause or permit to be discharged into the wastewater system, any unpolluted waters, or any storm water, ground water, roof drain runoff, subsurface drainage, footer drain discharge, cooling water, or similar liquid, except that storm water runoff from limited areas may be discharged into the wastewater system if the Director has determined that said discharge will not adversely impact upon the wastewater system or its operation.

2) Whenever the Director shall find that any provision of this section is being violated, he shall issue a written order to the person(s) responsible for such condition(s), to remove such connectors or drains from such sanitary sewer and to cease said unlawful discharge within ninety (90) days after service of such order.

3) The service of such order, as mentioned herein, may be made upon the person to whom it is directed, either by delivering a copy of same to such person, or by delivering the same to and leaving it with any person in charge of the premises, or by affixing a copy thereof in a conspicuous place on the entrance of such premises.

4) Storm water other than that exempted under the first paragraph of this section and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as storm sewers or to a natural outlet approved by the Director and other regulatory agencies. Unpolluted industrial cooling water or process waters may be discharged, on approval of the Director and other regulatory agencies, to a storm sewer or natural outlet.

(b) Sewer Connections Outside Corporate Limits

Whenever sewers are about to be or have been constructed for the purpose of carrying off wastewater from lots and lands outside the corporate limits, no permission shall be given or granted to connect such sewers with the treatment works of the City, nor shall the use of the treatment works be permitted for the wastewater from such lots and lands outside of the corporate limits, unless there shall have been secured written permission from the Director which shall be given only if the sewers or system of sewers for which such connection or use is sought conform to the plans theretofore adopted by the City of Kalamazoo. A certificate of approval of such sewers by the Michigan Department of Natural Resources shall also be furnished where, by law, such plans are required to be approved.

Sections 28-21 through 28-23 Reserved.

ARTICLE II. SERVICE CHARGES

Sec. 28-24 To be charged for all connections; basis; meters.

(a) The rates to be charged for wastewater service furnished by the wastewater system shall be charged to all buildings or premises having any connection with the system. Such rates shall be based upon the water consumption of the user's premises, including water from public and private supplies, or at the election of the user, the amount of wastewater discharged into the City's wastewater system, except that the service charge shall be based upon the size of the water meter.

(b) The owner of any building or premises receiving water from any source other than the City Water Department shall register the same with the Director and shall arrange to have suitable metering facilities installed, at his own expense, to measure such private supply. The meters shall be provided, maintained, and read by the Water Department, for which the customer shall be charged the applicable water service charge in addition to the established charges for wastewater services. In any interim period allowed by the Director prior to such installation, the Director may establish such charges as he deems equitable, considering the anticipated wastewater discharge.

(c) Any user of the wastewater system may elect to rearrange his water supply pipes and metering, for the purpose of eliminating from the total water consumption applicable to wastewater charges the water not running to the sanitary sewers, or he may elect to establish metering facilities registering the discharge from his premises to the sanitary sewers. All such arrangements shall be made subject to the approval of the Director, and the expense thereof, including installation, maintenance, and operation, shall be borne by the user.

(d) No statement contained in this Section shall be construed as preventing any special agreement or arrangement between the City and any industrial user whereby an industrial waste of unusual strength or character may be accepted by the City for treatment. Any user who enters into a special agreement or arrangement with the City shall be subject to all User and Industrial Cost Recovery Charges as set forth herein in addition to the costs or fees established in the special agreement. No special agreement shall be entered into which is in conflict with Section 307 of Public Law 92-500 or with any other State or Federal law or regulation.

Sec. 28-25 Rates Established.

(a) Each user of the treatment works shall pay charges equal to the sum of (1), (2), and (3) below according to the size of meter in (1), the quantity of water or wastewater in (2), and the pollutant concentration in (3). The system of user charges and capital charges shall be reviewed biannually and revised periodically as required to maintain proportionality of charges.

1) Demand Charge Per Billing Period - The following charges shall apply to all users connected or required to be connected, regardless of the quantity of wastewater discharged. The demand charge is a user charge; it contains no capital charges.

INDIVIDUALLY METERED USERS

Meter Size (in.)	User Charge Per Quarter	User Charge Per Month
5/8	$ 7.40	$ 3.70
1	$12.25	$ 5.30
1 1/2	$20.50	$ 8.00
2	$28.50	$11.00
3		$18.00
4		$26.00
6		$42.00

MASTER METERED AND CONTRACT INDUSTRIAL USERS PER MONTH

User	User Charge ($)
Portage	760
Galesburg	160
Parchment	38
Brown Co.	1,100
Georgia-Pacific	2,200
Nat'l Gypsum	1,100
Upjohn	1,100

2) Commodity Charges -

Class of User	User Charge Per cu. meter ($)	Capital Charge Per cu. meter ($)	Rounded off Commodity Charge Per cu. meter ($)
NONINDUSTRIAL			
Individually Metered			
IC taxed	0.069	0.056	0.13
IC tax-exempt	0.069	0.095	0.17
OC	0.069	0.144	0.22
Master-Metered			
Portage	0.063	0.182	0.25
Galesburg	0.063	0.051	0.12
Parchment	0.063	0.043	0.11
INDUSTRIAL			
Individually Metered			
IC taxed	0.069	0.056	0.13
IC tax-exempt	0.069	0.095	0.17
OC	0.069	0.144	0.22
Contract Industries Served by Riverview P.S.			
Georgia-Pacific 1,2,3	0.073	0.035	0.11
National Gypsum	0.073	0.061	0.14
Contract Industries Not Served by Riverview P.S.			
Brown Mill 4 & 7	0.067	0.029	0.10
Upjohn	0.067	0.151	0.22

3) Pollutant Loading Charges, Credits

Class of User

Individually Metered Industrial Users and Contract Industrial Users:

$0.103 per kg BOD_5* in excess of 250 mg/l
$0.041 per kg COD* in excess of 625 mg/l
$0.084 per kg SS in excess of 290 mg/l

* Excess oxygen demand shall be charged on the basis of BOD_5 or COD, but not both.

Industries which discharge pretreated wastewater containing compatible pollutants (BOD or SS) at a strength below standard domestic waste may qualify for a pretreatment credit. The pretreatment credit of $0.103/kg BOD and $0.084/kg SS is computed on the difference between standard domestic waste (250 mg/l BOD and 290 mg/l SS) and the concentrations actually discharged by the industry. The pretreatment credit to be granted shall not exceed the value of the industry's capital charge rate less $0.008 per cubic meter. The pretreatment credit shall be computed monthly. To qualify for a pretreatment credit, the industry must provide at its own expense, suitable wastewater metering and continuous sampling facilities which meet the approval of the Director. Any gathering of samples or laboratory analysis required for billing purposes shall be paid for by the industrial user.

Mastered Metered Nonindustrial Users:

$0.103 per kg BOD_5 in excess of 230 mg/l
$0.084 per kg SS in excess of 260 mg/l

(b) Industrial Cost Recovery charges for Contracts 37A-C, with a recovery period beginning January 1, ____ shall be as follows:

$_____ per 1000 cubic meters of Flow

Industrial Cost Recovery charges for Contract 38, with a recovery period beginning January 1, ____, shall be as follows:

$_____ per 1000 cubic meters of Flow
$_____ per 1000 kg of SS

(c) In addition to the above charges, each user shall pay the charges for miscellaneous service and monitoring as determined by the Director. The charges may be revised by the Director whenever in his opinion it is deemed appropriate. All charges shall be paid to the City Treasurer, and all funds received as a result of the miscellaneous charges will be credited to the Wastewater System Receiving Account.

(d) Any person who is responsible for discharging prohibited material shall be charged the actual expense incurred by the City for the handling, treating, and/or removal of said material in the wastewater system.

(e) Any person who is responsible for damage to the wastewater system shall be charged the full cost of repair of the damage to the wastewater system. The cost shall include but is not limited to labor, equipment, materials, administrative expense, interest on borrowed funds, engineering, legal, or other professional fees or expenses charged to the City by other utilities or departments, and any and all fines, costs, penalties, or damages imposed upon the City by the United States, the State of Michigan, or any Court or administrative agency.

Sec. 28-26 Classification of users for billing purposes.

(a) Users of the treatment works shall be divided into classes. Classes shall be groups of users for which the wastewater characteristics are approximately equal and services provided are essentially the same. Initially, there shall be established five classes of users, and seven subclasses for use with capital charges, as follows:

NONINDUSTRIAL USER CLASS - As defined in Sec. 28-1.

1. Individually Metered
   1.1 Inside City taxed
   1.2 Inside City tax-exempt
   1.3 Outside City

2. Master Metered
   2.1 Outside City

INDUSTRIAL USER CLASS - As defined in Sec. 28-1.

3. Individually Metered
   3.1 Inside City taxed
   3.2 Inside City tax-exempt
   3.3 Outside City

4. Contract Industries Served by Riverview Pumping Station

5. Contract Industries Not Served by Riverview Pumping Station

The user charges shall result in the distribution of operation, maintenance, and replacement costs of the treatment works within the jurisdiction of the City to each user class in proportion to such user's contribution of the total wastewater loading of the treatment works. Factors such as strength, volume, and delivery flow rate characteristics shall be included to ensure a proportional distribution of the costs. The Director may establish additional classes as determined to be necessary.

(b) The demand charge provided in Sec. 28-25 (a) 1) applicable to single-family residences within the Individually Metered Nonindustrial Class shall be computed on the basis of a 5/8 inch water meter size regardless of the size of water meter actually installed on the water service to the residence.

(c) The commodity user charge provided in Sec. 28-25 (a(2)) for Individually Metered Users in both the Industrial and Nonindustrial Classes and the Contract Industrial Users shall include the cost of treating wastewater with a level of pollutants up to and including 250 mg/l BOD_5 or 625 mg/l COD, and 290 mg/l SS.

The commodity user charge provided in Sec. 28-25 (a(2)) for Master Metered Users in the Nonindustrial Class shall include the cost of treating wastewater with a level of pollutants up to and including 230 mg/l BOD_5 and 260 mg/l SS.

(d) Residential customers and other small users, whose water consumption as purchased from the Water Department is less than two hundred (200) cubic meters during the winter quarter, shall be billed for wastewater service in the other three (3) quarters on the basis of the actual consumption of water, with a maximum quantity for any quarter equal to one hundred twenty (120) percent of the winter quarter. The "winter quarter" is defined as a three (3) month billing period between November first of any one year and April thirtieth of the subsequent year (both dates inclusive) in accordance with water meter reading and billing schedules as used by the Water Department. Where it is evident that the water consumption during the winter quarter does not fairly reflect the yearly consumption for nonsprinkling purposes, the Director may use such three (3) month period or average as reasonably appears to reflect normal wastewater discharge from that residence as a basis for the wastewater disposal service bill. All other users shall be billed on a basis of water actually used in every billing period or actual wastewater discharged through a meter.

Sec. 28-27 Applicability of demand charge to property not connected to sewer.

Properties which have water service or a water supply and abut a sanitary sewer and have not been connected thereto shall become liable for payment of the demand charge prescribed in section 28-25 upon the expiration of a five (5) year period following the date when the sanitary sewer was accepted by the City as being ready for use.

Sec. 28-28 Reserved.

Sec. 28-29 Billing, responsibility for payment.

Wastewater service charges shall be billed quarterly, except that customers billed monthly for water shall be billed monthly for the wastewater service charge. The person paying or responsible for payment of the water bill shall, in like manner, be responsible for payment of the wastewater service bill.

Sec. 28-30 When due and payable; penalty and interest for delinquency.

All charges for wastewater service shall become due and payable on the date indicated on each bill. Payments made after such date shall include an additional five (5) percent of the amount due on the due date.

Sec. 28-31 Charges as lien; collection by suit; discontinuing water service for failure to pay.

The charges for wastewater service are hereby recognized to constitute a lien on the premises receiving such service. Whenever any such charge against any property shall be delinquent for six (6) months, the City officials in charge of the collection thereof may certify to the tax assessing officer of the City the fact of such delinquency, whereupon such charge shall be entered upon the next tax roll as a charge against such premises and shall be collected and the lien thereof enforced in the same manner as general City taxes against such premises are collected and the lien thereof enforced. Nothing in this section, however, shall be deemed to prevent the City from suing in a court of law to collect the amount due it for wastewater service charges. In addition to the other remedies provided in this section, the City shall have the right to shut off and discontinue the supply of water to any premises for the nonpayment of the wastewater service charges when due.

Sec. 28-32 Disposition of revenue.

(a) The revenues of the wastewater system derived from the collection of rates established by this article are hereby ordered to be credited, as collected, to a separate account to be designated as the wastewater system receiving account (hereinafter referred to as the receiving account) and the revenues in such account shall be credited to the following accounts quarterly in the manner hereinafter specified for the purposes therein mentioned.

The revenues of the wastewater system may be deposited in such bank accounts and with such depositories as the City Commission may, by resolution or ordinance, designate.

(b) Out of the revenues in the receiving account, there shall be credited quarterly to a separate account, designated as the operation and maintenance account, all funds collected from user charges to be used for the administration and operation of the system, including billing, accounting, postage, and related costs, and such current expenses for the maintenance thereof as may be necessary to preserve the same in good repair and working order.

(c) There shall next be established and maintained a separate account, designated as the debt retirement account, which account shall be used solely and only for the purpose of paying the principal of and interest on the bonds of the system as are now or may hereafter be issued, except special assessment bonds. Any tax revenues designated for use in retiring such bonds shall likewise be credited to this account as and when received. There shall be set aside from time to time in such account at least a sufficient amount to meet the principal and interest requirements accruing in the current fiscal year.

(d) After all such funds have been credited as above provided, the revenues derived from the charges collected and taxes designated as aforesaid may be used for the purpose of construction, expansion, extension, and improvement of the system.

(e) Any surplus "capital charge" revenues remaining at the end of any fiscal year, after the above requirements have been met, shall be credited to the system surplus account and shall be disposed of as directed by the City Commission."

Section 2. All parts of any ordinance which are inconsistent herewith are hereby repealed.

Section 3. Should any part of this Chapter be declared void, or should the City be restrained from enforcement of any part of this Chapter, that part shall be severed from the remainder and the remainder shall continue in full force and effect.

Section 4. This ordinance shall become effective on April 1, 1980. In addition, this ordinance shall be effective for bills rendered on or after April 1, 1980.

CERTIFICATE

The foregoing ordinance was adopted by the City Commission of the City of Kalamazoo, Michigan, on the 17 day of March, 1980, and was duly recorded, posted and authenticated by the Mayor and City Clerk as provided by the charter of said city.

Mayor

City Clerk

Inter-Office

MEMO

City of Kalamazoo

To Mr. Robert C. Bobb, City Manager Date 3/13/80

From Mr. Donald H. Swets, Director of Public Works

Regarding An Ordinance to Amend Chapter 28

On March 3, 1980, an ordinance to amend Chapter 28 of the Kalamazoo City Code pertaining to sewers and the wastewater system was offered for first reading. At the City Commission meeting it was indicated that some clarification of language in the proposed revisison of Chapter 28 as presented appeared desirable. Today I received copies of revised Pages 6, 24 and 25 from the City Attorney in which the following modifications have been made.

Page 6, Section 28-5 (a)

Add:"(State Law, Reference: MCLA 333.12751 through 333.12758.)"

Page 6, Section 28-5 (b)

Add: "This paragraph shall not apply to the making or use of compost or fertilizer by said person on his or her own property if done in compliance with any and all laws, ordinances, and regulations as part of a lawful business or domestic agricultural activity which poses no substantial threat to public health, safety, or welfare and is not a common-law nuisance."

Page 24, Section 28-25 (e)

Change the period at the end to a comma and add: "and any and all fines costs, penalties, or damages imposed upon the City by the United States, the State of Michigan, or any court or administrative agency."

Page 25, Section 28-27

Insert on line 1 after "Properties which", the phrase "have water service or a water supply and . . ."

With the following recommended revisions, the revised ordinance to amend Chapter 28 could be considered for adoption. Copies of the three pages with the aforementioned changes made are attached hereto.

Donald H. Swets, P.E.
Director of Public Works

DHS/ld
cc: City Attorney
D. H. Swets
O. K. Loen
R. G. Simms
File

Att

K5

Inter-Office

MEMO

City of Kalamazoo

To Robert C. Bobb, City Manager Date February 29, 1980

From Donald H. Swets, Public Works Director

Regarding Revision to Chapter 28 of the City Code -- Wastewater

Attached hereto is the final draft copy which I received from the City Attorney's Office on the revised Chapter 28 of the Ordinances of the City of Kalamazoo. This pertains to the Wastewater System, the materials that are allowed to be discharged to our sanitary sewers and thus the entire Wastewater System. Provisions for Industrial Cost Recovery are mandated by the Environmental Protection Agency (EPA), and other corrections so as to conform with federal regulations that are tied to the multi-million dollar construction grants which we have received.

The second section of this ordinance deals with a modification of the rates for Wastewater services. This addresses the change from being partly supported by the property tax by a transfer from the General Fund, and the equivalent thereof for customer's outside of our City. The full financing of the Wastewater System will be on a user charge basis with the adoption of this revised Chapter 28. Revisions for Industrial Cost Recovery are included, however, Congress has put a moratorium on collection of Industrial Cost Recovery until July, 1980, and there is some indication that this requirement may be deleted. This Industrial Cost Recovery is an added charge to industries which must be collected to reimburse the federal government for industries' share of the federal grants received by the municipality in constructing water pollution control facilities.

It is recommended that this Chapter 28 be offered for first reading so that the new rates could be implemented effective April 1, 1980.

DHS/lgs
Attachment

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1576

AN ORDINANCE TO AMEND SECTION 28-6 OF THE KALAMAZOO CODE

THE CITY OF KALAMAZOO ORDAINS

Section 1. Section 28-6 of the Kalamazoo Code is hereby amended to read as follows:

"Sec. 28-6. Service connection charges.

(a) The city manager is hereby authorized, with the consent of the city commission, to determine and establish a schedule of construction charges for the various sizes and types of sanitary sewer connections for each calendar year. Each schedule shall become effective when approved by motion duly adopted by the city commission. Such schedule of charges shall be based on the following, as applicable.

(1) Recovery of all costs normally incurred for this type of construction.

(2) The size and length of pipe to be used for connection.

(3) Extra costs of construction during winter months.

(4) Repair or replacement of pavement and sidewalk.

(5) Exceptional surface repairs, including landscaping.

(b) The director of the department of public utilities may establish advance deposits for construction charges for water service connections for each calendar year.

(c) Advance deposits toward construction charges established under this section shall be made before construction. Any balance owed shall be due within thirty (30) days after billing. Interest at the rate established by the city commission for past due accounts shall be charged upon any delinquent unpaid balance. If such unpaid balance with interest is not paid within six (6) months, the fact shall be reported to the city commission for establishment of a lien against the real estate.

REPEALER

All former ordinances or parts of ordinances conflicting or inconsistent with the provisions of this ordinance are hereby repealed.

SEVERABILITY

If any section, subsection, sentence, clause, phrase or portion of this ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, said portion shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions of this ordinance.

CERTIFICATE

The foregoing is a true and complete copy of an ordinance adopted by the City Commission of the City of Kalamazoo at a regular meeting held on May 31, 1994. Public notice was given and the meeting was conducted in full compliance with the Open Meetings Act, (PA 267, 1976). Minutes of the meeting will be available as required by the Act, and the ordinance was duly recorded, posted and authenticated by the Mayor and City Clerk as required by the Charter of said City.

Edward J. Annen, Mayor

Nancy A. Collins, City Clerk

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1577

AN ORDINANCE TO AMEND SECTION 38-8 OF THE KALAMAZOO CODE

THE CITY OF KALAMAZOO ORDAINS

Section 1. Section 38-8 of the Kalamazoo Code is hereby amended to read as follows:

"Sec. 38-8. Service connection charges.

(a) The city manager is hereby authorized, with the consent of the city commission, to determine and establish a schedule of construction charges for the various sizes and types of water service connections for each calendar year. Each schedule shall become effective when approved by motion duly adopted by the city commission. Such schedule of charges shall be based on the following, as applicable.

(1) Recovery of all costs normally incurred for this type of construction.

(2) The size and length of pipe to be used for standard size connections, up through one and one-quarter (1, 1/4) inch. When the main is in a public street, the length of pipe shall be computed from the center of the right-of-way.

(3) Extra costs of construction during winter months.

(4) Repair or replacement of pavement and sidewalk.

(5) Exceptional surface repairs, including landscaping.

For larger sized pipes and for all extensions or alterations to existing services, charges shall be based upon actual costs.

(b) The director of the department of public utilities may establish advance deposits for construction charges for water service connections for each calendar year.

(c) Advance deposits toward construction charges established under this section shall be made before construction. Any balance owed shall be due within

thirty (30) days after billing. Interest at the rate established by the City Commission for past due accounts shall be charged upon any delinquent unpaid balance. If such unpaid balance with interest, is not paid within six (6) months, the fact shall be reported to the City Commission for establishment of a lien against the real estate.

REPEALER

All former ordinances or parts of ordinances conflicting or inconsistent with the provisions of this ordinance are hereby repealed.

SEVERABILITY

If any section, subsection, sentence, clause, phrase or portion of this ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, said portion shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions of this ordinance.

CERTIFICATE

The foregoing is a true and complete copy of an ordinance adopted by the City Commission of the City of Kalamazoo at a regular meeting held on May 31, 1994. Public notice was given and the meeting was conducted in full compliance with the Open Meetings Act, (PA 267, 1976). Minutes of the meeting will be available as required by the Act, and the ordinance was duly recorded, posted and authenticated by the Mayor and City Clerk as required by the Charter of said City.

Edward J. Annen, Mayor

Nancy A. Collins, City Clerk

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City of Kalamazoo

INTER-OFFICE MEMO

To: HONORABLE MAYOR & CITY COMMISSIONERS

From: A. LEE KIRK, DEPUTY CITY ATTORNEY

Date: May 2, 1994

Subject: INTEREST ON OVERDUE ACCOUNTS

RECOMMENDED ACTION

It is recommended that a uniform rate of 12 per cent per annum (one per cent per month) be established by resolution as the interest rate for all past due accounts. It is also recommended that the late fees established by ordinance for water and sewer bills in Sections 38-8(c) and 28-6(c) of the City Code be repealed. The resolution and ordinance amendments which are now presented to you will accomplish these objectives.

BACKGROUND

In response to a commission inquiry, this office examined the interest rates charged by various City departments on past due accounts. We found that different interest rates were assessed by different departments, and that some of the rates had not been adjusted to reflect market conditions. The Administration asked this office to take the steps necessary to establish a uniform rate for all City departments.

The one per cent figure which is recommended is based on an assessment of current market conditions and on a survey of interest rates charged by other municipalities undertaken by the Treasurer's office. This rate will apply to all accounts which are past due for 30 days or more. The proposed resolution will not apply to one-time late penalties. For example, the Utilities Department charges a one-time fee of 5 per cent for past due water bills. This resolution will not apply to that charge because interest does not continue to accumulate on that bill. The resolution will not apply to taxes or special assessments, which are separately regulated.

In order to establish a uniform rate, it is recommended that the City Commission repeal the one per cent late fees created by ordinance for the installation of water and sewer service found in Sections 28-6(c) and 38-8(c) of the City Code, even though the rate established by these ordinances is one per cent per month. This action is recommended so that the resolution will apply across the board, and to facilitate any future adjustments in the rate.

STAFF/BUDGET IMPACT

The Finance Department does not anticipate that this resolution will have a significant budgetary impact.

CONCLUSION

It is recommended that the City Commission establish by resolution a uniform interest rate of one per cent per month for all accounts past due for 30 days or more. It is also recommended that those ordinances establishing late fees be repealed so that the policy applies in a like manner to all departments.

cc: Marc Ott, City Manager
Pat DiGiovanni, Deputy City Manager
Nancy Collins, City Clerk
Ken Collard, Utilities Director
R. Keith Overly, Finance Director
Mark Stuhldreher, Treasurer
Jerri Barnett-Moore, Public Utilities

CITY OF KALAMAZOO, MICHIGAN

RESOLUTION NO. 94-90

A RESOLUTION TO ADOPT A UNIFORM POLICY TO ESTABLISH INTEREST RATES ON PAST DUE ACCOUNTS

Minutes of a regular meeting of the City Commission of the City of Kalamazoo, Michigan, held on May 16, 1994, at 7:00 o'clock p.m., local time, in City Hall.

PRESENT, Commissioners: Appleyard, Haan, Jackson, Larson, Straits, Vice Mayor Lipsey

ABSENT, Commissioners: Mayor Annen

WHEREAS, the City of Kalamazoo wishes to adopt a uniform policy establishing the interest rate to be charged on past due accounts; and

WHEREAS, it is in the best interests of the City of Kalamazoo to establish an interest rate to be applied on past due accounts which reflects market conditions;

NOW, THEREFORE, BE IT RESOLVED that from this day forward, the interest rate which shall be applied to all City accounts which are past due for thirty (30) days or more shall be one per cent per month (12 per cent per annum) until such time as the City Commission, by ordinance or resolution, shall establish a different rate. This interest rate shall not apply to any accounts where a one-time late fee is charged, nor shall it apply to any past due tax bill or special assessment.

The above resolution was offered by Commissioner Appleyard and supported by Commissioner Straits.

AYES, Commissioners: Appleyard, Haan, Jackson, Larson, Straits, Vice Mayor Lipsey

NAYS, Commissioners: None

RESOLUTION DECLARED ADOPTED.

CERTIFICATE

The foregoing is a true and complete copy of a resolution adopted by the City Commission of the City of Kalamazoo at a regular meeting held on May 16, 1994. Public notice was given and the meeting was conducted in full compliance with the Michigan Open Meetings Act (PA 267, 1976). Minutes of the meeting will be available as required by said Act.

NA Collins

Nancy A. Collins, City Clerk

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1495

AN ORDINANCE TO ADD A DEFINITION OF "COMMERCIAL USER" TO SECTION 28-1, CHANGE THE DEFINITION OF "INDUSTRIAL USER" IN SECTION 28-1, AND AMEND SECTION 28-26 OF THE KALAMAZOO CODE

THE CITY OF KALAMAZOO ORDAINS THAT

Section 1. Section 28-1 of the Kalamazoo Code is hereby amended by adding thereto the following definition of "Commercial User":

> "Commercial user shall mean any user of the wastewater system who does not meet the definition (below) of "Industrial User" but whose primary use of the user's property is not residential. As an exception to the foregoing definition of "Commercial User," if the Director determines that the activities or wastewater of the user are characteristic of an industrial rather than a commercial user, the Director may classify the user as industrial."

Section 2. Section 28-1 of the Kalamazoo Code is hereby amended by amending the definition therein of "Industrial User" to read as follows:

> **Industrial user** shall mean any user of the wastewater system which:
>
> (a) is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented under one of the following divisions:
>
> Division A: Agriculture, Forestry & Fishing.
>
> Division B: Mining.
>
> Division C: Construction.
>
> Division D: Manufacturing.
>
> Division E: Transportation; Communications; Electric, Gas and Sanitary Services.
>
> Division F: Wholesale Trade.
>
> Division G: Retail Trade.

Division I: Services; or

(b) Any user of the wastewater system which discharges wastewater to the wastewater system which wastewater contains toxic pollutants or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to contaminate the sludge of any municipal systems, or to injure or to interfere with any sewage treatment process, or which constitutes a hazard to humans or animals, creates a public nuisance, or creates any hazard in or has an adverse effect on the waters receiving any discharge from the treatment works; or

(c) Any user of the wastewater system which discharges wastewater containing pollutants which may interfere with the treatment process, may be toxic or incompatible, may interfere with the processing or disposal of the sludge, or may have an adverse effect on the receiving stream.

(d) As an exception to (a), above, if the Director determines that the activities and wastewater of the user are characteristic of a commercial rather than an industrial user, the Director may classify the user as commercial which classification would continue only as long as the user's activities and wastewater remain commercial rather than industrial.

Section 3. Section 28-26 of the Kalamazoo Code is hereby amended to read as follows:

"Sec. 28-26. Classification of users for billing purposes.

(a) Users of the treatment works shall be divided into classes. Classes shall be groups of users for which the wastewater characteristics are approximately equal and services provided are essentially the same. Classes and subclasses of users are hereby established for capital charges, as follows:

NONINDUSTRIAL USER CLASS-As defined in section 28-1

1. Individually metered

1.1. Inside city
1.2. Outside city

2. Master metered

2.1. Outside city

INDUSTRIAL USER CLASS-As defined in section 28-1.

3. Individually metered

3.1. Inside city
3.2 Outside city

4. Contract industries served by Riverview Pumping Station.

5. Contract industries not served by Riverview Pumping Station.

The user charges shall result in the distribution of operation, maintenance and replacement costs of the treatment works within the jurisdiction of the city to each user class in proportion to such user's contribution of the total waste water loading of the treatment works. Factors such as strength, volume and delivery flow rate characteristics shall be included to ensure a proportional distribution of the costs. The director may establish additional classes as determined to be necessary.

(b) The demand charge provided in section 28-25(a)(1) applicable to single-family residences within the individually metered nonindustrial class shall be computed on the basis of the size of water meter actually installed on the water service to the residence.

(c) The commodity user charge provided in section 28-25(a)(2) for individually metered users in both the industrial and nonindustrial classes and the contract industrial users shall include the cost of treating waste water with a level of pollutants up to and including 250 mg/l BOD_5 or 625 mg/l COD, and 290 mg/l SS.

The commodity user charge provided in section 28-25 (a)(2) for master metered users in the nonindustrial class shall include the cost of treating wastewater with a level of pollutants up to and including 230 mg/l BOD_5 and 260 mg/l SS.

(d) Residential customers and other small users, whose water consumption as purchased from the water department is less than two hundred (200) cubic meters during the winter quarter, shall be billed for wastewater service in the other three (3) quarters on the basis of the actual consumption of water, with a maximum quantity for any quarter equal to one hundred twenty (120) per cent of the winter quarter. The "winter quarter" is defined as a three-month billing period between November first of any one year and April thirtieth of the subsequent year (both dates inclusive) in accordance with water meter reading and billing schedules as used by the water department. Where it is evident that the water consumption during the winter quarter does not fairly reflect the yearly consumption for nonsprinkling purposes, the director may use such three-month period or average as reasonably appears to reflect normal waste after discharge from that residence as a basis for the wastewater disposal service bill. All other users shall be billed on a basis of water actually used in every billing period or actual wastewater discharged through a meter.

CERTIFICATE

The foregoing is a true and complete copy of an ordinance adopted by the City Commission of the City of Kalamazoo at a regular meeting held on May 14, 1990. Public notice was given and the meeting was conducted in full compliance with the Open Meetings Act, (PA 267, 1976). Minutes of the meeting will be available as required by the Act, and the ordinance was duly recorded, posted and authenticated by the Mayor and City Clerk as required by the Charter of said City.

Edward J. Annen, Mayor

Ruth G. Tydeman

Ruth G. Tydeman, City Clerk

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1373

AN ORDINANCE AMENDING CHAPTER 28
OF THE KALAMAZOO CITY CODE

The City of Kalamazoo ordains:

SECTION 1 - That Section 28-1 of the Kalamazoo City Code is hereby amended to read as follows:

Section 28-1. DEFINITIONS.

When used in this chapter, or rules and regulations adopted pursuant to this chapter, the following words, terms and phrases shall have the meaning specified herein:

BIOCHEMICAL OXYGEN DEMAND OR BOD means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty (20) degrees centigrade, expressed in terms of weight and concentration as milligrams per liter.

CAPITAL CHARGES shall mean those amounts paid by each premise connected to the treatment works to pay the debt service requirements and capital expenditures to enlarge or improve the waste water facilities.

CHAPTER means Chapter 28 of the Kalamazoo City Code.

CHEMICAL OXYGEN DEMAND OR COD means the quantity of oxygen utilized in the chemical oxidation of organic matter, expressed in terms of milligrams per liter.

COMPATIBLE POLLUTANT means those pollutants which the waste water system is or may be designed to reduce or remove from waste water in accordance with its NPDES permit.

COOLING WATER means the water discharged from any use such as air conditioning, refrigeration or other cooling to which the only pollutant added is heat.

DIRECT WATER COOLING means the use of water as a refrigerant or as a primary heat transfer medium.

DIRECTOR means director or acting director of the department of public utilities of the city or his designee or authorized representative.

FWPCA means the Federal Water Pollution Control Act as amended, or as that act may be hereafter amended.

GARBAGE means solid waste from the domestic or commercial preparation, cooking, dispensing, storage, handling or sale of food.

INDIRECT WATER COOLING means the use of water to extract heat from a refrigerant or as a secondary heat transfer medium.

INDUSTRIAL OR COMMERCIAL WASTES means the waste water from the place of the user's business, trade or profession.

INDUSTRIAL USER shall mean any user of the wastewater system which:

(a) Is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented under one of the following divisions:

DIVISION A: Agriculture, Forestry and Fishing.

DIVISION B: Mining.

DIVISION D: Manufacturing.

DIVISION E: Transportation; Communications;

Electric, Gas and Sanitary Services.

DIVISION I: Services; or

(b) Any user of the wastewater system which discharges wastewater to the wastewater system which wastewater contains toxic pollutants or poisonous solids, liquids or gases in sufficient quantity either singly or by interaction with other wastes, to contaminate the sludge of any municipal systems, or to injure or to interfere with any sewage treatment process, or which constitutes a hazard to humans or animals, creates a public nuisance, or creates any hazard in or has an adverse effect on the waters receiving any discharge from the treatment works; or

(c) Any user of the wastewater system which discharges wastewater containing pollutants which may interfere with the treatment process, may be toxic or incompatible, may interfere with the processing or disposal of the sludge, or may have an adverse effect on the receiving stream.

INFILTRATION shall mean water other than waste water that enters a sewer system (including building drains and building sewers) from the ground through such means as defective pipes, defective pipe joints, defective connections or defective manholes. Infiltration does not include, and is distinguished from, inflow.

INFILTRATION/INFLOW (I/I) shall mean the total quantity of water from both infiltration and inflow without distinguishing the source.

INFLOW shall mean water other than waste water that enters a sewer system (including building drains and building sewers) from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross-connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.

MAJOR CONTRIBUTORY INDUSTRY means an industrial user of the waste water system that:

(a) Has a flow of fifty thousand (50,000) gallons or more per average workday; or (b) Has a flow greater than five (5) per cent of the flow carried by the municipal system receiving the waste; or

(c) Has in its waste a toxic pollutant in toxic amounts as defined in standards issued under Section 307 of the FWPCA, or by the director; or

(d) Is found by the director or State of Michigan, in connection with the NPDES permit issued to the city, to have significant impact, either singly or in combination with other contributing industries, on the waste water system or upon the quality of effluent from the waste water system.

MG/L means milligrams per liter.

NATURAL OUTLET menas any outlet into a watercourse, pond, ditch, lake or body of surface or groundwater.

NONINDUSTRIAL USER shall mean any user of the waste water system not classified as an industrial user.

NPDES or NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM means the program for issuing, conditioning and denying permits for the discharge of pollutants from point sources into the navigable waters, territorial seas, and contiguous zones of the United States pursuant to Section 402 of the FWPCA.

pH means the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.

POLLUTANT means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, residential and agricultural waste.

POLLUTION means the man-made or man-induced alteration of the chemical, physical, biological or radiological integrity of water.

PRETREATMENT means application of physical, chemical and/or biological processes to reduce the amount of pollutants in or alteration of the nature of the pollutant properties in waste water prior to discharging such waste water into the waste water system.

PRETREATMENT STANDARDS means all applicable rules and regulations implementing Section 307 of the FWPCA, as well as any nonconflicting state or local standards which may require more restrictive treatment of waste water under the circumstances described in Section 307.

PROPERLY SHREDDED GARBAGE means garbage that has been shredded to such a degree that no particle shall be larger than one-half inch or one and twenty-seven hundredths (1.27) centimeters in any dimension, and all particles can be carried freely in the waste water under the flow conditions normally prevailing in the waste water system.

SANITARY SEWER means a pipe or system of pipes that convey waste waters from residences, commerical buildings, industrial plants, institutions or other structures as a part of the waste water collection system.

SLUDGE shall mean the accumulated solids separated from liquids during the treatment of waste waters.

STORM DRAIN OR STORM SEWER means any drain or sewer intended expressly for the conveyance of storm water and surface water, street wash, or drainage or other unpolluted water.

SUSPENDED SOLIDS means the total suspended matter that floats on the surface of, or is suspended in, waste water and that is removable by laboratory filtering.

USER means any person who discharges or causes or permits the discharge of waste water into the waste water system and/ or the owner or occupant of any property from which said discharge is made.

WASTE WATER means water, or any liquid, whether or not containing pollutants, which is discharged or permitted to be discharged into the waste water system.

WASTE WATER SYSTEM means the complete waste water collection, treatment, and disposal system of the city including all works, instrumentalities or properties used or useful therein.

WATERCOURSE means any natural channel or body of water in which a flow of water occurs either continuously or intermittently.

SECTION 2 - That Section 28-17 of the Kalamazoo City Code is hereby amended to read as follows:

Sec. 28-17. INSPECTION AND MONITORING OF USERS.

(a) Industrial or commercial users of the waste water system are subject to inspection of their facilities and records pertaining to raw material use at the request of the director during all reasonable business hours, and in an emergency at any time. Said inspections may include, but are not limited to, monitoring of these users' operations. The city recognizes proper identification is necessary for access to the facilities and will arrange any appropriate prior security clearances.

(b) The premises of any user may be inspected at all reasonable hours for the purpose of determining whether any violation of this chapter exists.

(c) When required by the director, the owner(s) of any property serviced by a building sewer carrying industrial wastes shall install a suitable structure(s) together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling and measurement of the wastes. Such structures, when required, shall be accessible and safely located, and shall be constructed in accordance with plans approved by the director. The structure shall be installed by the owner(s) at his expense and shall be maintained by him so as to be safe and accessible at all times. Following approval and installation, such meters may not be removed without the consent of the director.

(d) If a user refuses to grant the director entry upon request, the director may seek an administrative warrant for an inspection from any court authorized to issue search warrants under Michigan law. In an emergency which creates an immediate and substantial danger to persons or property, the premises of a user may be inspected at any time and without permission or a warrant.

(e) Trade secrets or patented processes disclosed to the city under this chapter shall be confidential and exempt from release to nongovernmental persons, in accordance with section 13(1)(g) of the Michigan Freedom of Information Act, except as such release is required by law or regulations of the United States. Any data used to determine compliance with this Chapter or the NPDES Permit shall be available to the public.

SECTION 3 - That Section 28-19 of the Kalamazoo City Code is hereby repealed.

CERTIFICATE

The foregoing is a true and complete copy of an ordinance adopted by the City Commission of the City of Kalamazoo at a regular meeting held on March 10, 1986, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been available as required by said Act, and furthermore, said ordinance was duly recorded, posted and authenticated by the Mayor and City Clerk as provided by the Charter of said City.

Edward J. Annen, Jr., Mayor

Ruth G. Allen, City Clerk

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 1334

AN ORDINANCE TO AMEND SECTIONS 28-6, 28-7 AND 38-8 OF THE KALAMAZOO CITY CODE TO ESTABLISH PROCEDURES FOR DETERMINING CONSTRUCTION CHARGES FOR SANITARY SEWER CONNECTIONS, ADVANCE DEPOSITS FOR SANITARY SEWER AND WATER SERVICE CONNECTIONS, TO PROVIDE FOR PAYMENT OF SANITARY SEWER CHARGES, AND ESTABLISH A LIEN THEREFOR AGAINST THE REAL ESTATE TO WHICH THE SANITARY SEWER IS CONNECTED.

THE CITY OF KALAMAZOO ORDAINS:

WHEREAS, Section 4-b(2) of the Home Rule Cities Act allows the City of Kalamazoo in its Charter to provide for the installation and connection of sewers to property within the City and to assess the cost thereof to the several properties and make the same a lien thereon; and,

WHEREAS, Section 157 of the Kalamazoo City Charter permits the City of Kalamazoo to acquire and operate any public utility enterprise or service; and,

WHEREAS, Section 1 of the Kalamazoo City Charter permits the City of Kalamazoo to exercise all powers conferred upon it by state law; and,

WHEREAS, the City of Kalamazoo wishes to provide for an orderly method of assessing the costs of installing and connecting property within the City to the City's sewer and water systems;

NOW, THEREFORE, THE CITY OF KALAMAZOO ORDAINS:

Section 1. Sec. 28-6. of the Kalamazoo City Code is hereby amended to read as follows:

"Sec. 28-6. Connection charges.

"(a) The City Manager is hereby authorized, with the consent of the City Commission, to determine and establish a schedule of construction charges for the various sizes and types of sanitary sewer connections for each calendar year. Each schedule shall become effective when approved by motion duly adopted by the City Commission. Such schedule of charges shall be based on the following as applicable:

(1) Recovery of all costs normally incurred for this type of construction.

(2) The size and length of pipe to be used for connection.

(3) Extra costs of construction during winter months.

(4) Repair or replacement of pavement and sidewalk.

(5) Exceptional surface repairs, including landscaping.

(b) The Director of the Department of Public Utilities may establish advance deposits for sanitary sewer connection construction charges for each calendar year.

(c) Advance deposits toward sanitary sewer connection construction charges established under this section shall be made before construction. Any balance owed shall be due within thirty (30) days after billing. Interest at the rate of one (1) percent per month shall be charged upon any delinquent unpaid balance. If such unpaid balance, with interest, is not paid within six (6) months, that fact shall be reported to the City Commission for the establishment of a lien against the real estate."

Section 2. Sec. 28-7 of the Kalamazoo City Code is hereby amended to read as follows:

"Sec. 28-7. Permit to connect generally in the City of Kalamazoo.

"(a) Permits for connections with sanitary sewers shall be issued by the Department of Public Utilities. All permits and special assessment records and payments related thereto shall be kept by the City Treasurer. No such permit shall be issued until all assessments due and all advance deposits established have been paid and until the Director of the Department of Public Utilities has determined that there is capacity available for the wastewater to be discharged in all downstream sewers, lift stations, force mains and the Wastewater Treatment Plant including capacity for compatible waste.

(b) The Director of the Department of Public Utilities may require from any proposed user or from any existing user who is altering the composition of the wastewater, a compatibility study to demonstrate to the satisfaction of the Director of the Department of Public Utilities that the wastewater to be discharged is compatible with the existing wastewater system, will not affect any requirements imposed upon the City, and will not adversely affect the wastewater system."

Section 3. Sec. 38-8 of the Kalamazoo City Code is hereby amended to read as follows:

"Sec. 38-8. Service connection charges.

"(a) The City Manager is hereby authorized, with the consent of the City Commission, to determine and establish a schedule of construction charges for the various sizes and types of water

service connections for each calendar year. Each schedule shall become effective when approved by motion duly adopted by the City Commission. Such schedule of charges shall be based on the following, as applicable

(1) Recovery of all costs normally incurred for this type of construction.

(2) The size and length of pipe to be used for standard size connections, up through one and one-quarter (1-1/4) inch. When the main is in a public street, the length of pipe shall be computed from the center of the right-of-way.

(3) Extra costs of construction during winter months.

(4) Repair or replacement of pavement and sidewalk.

(5) Exceptional surface repairs, including landscaping.

For larger sized pipes and for all extensions or alterations to existing services, charges shall be based upon actual costs.

(b) The Director of the Department of Public Utilities may establish advance deposits for construction charges for water service connections for each calendar year.

(c) Advance deposits toward construction charges established under this section shall be made before construction. Any balance owned shall be due within thirty (30) days after billing. Interest at the rate of one per cent per month shall be charged upon any delinquent unpaid balance. If such unpaid balance, with interest, is not paid within six (6) months, that fact shall be reported to the City Commission for the establishment of a lien against the real estate."

CERTIFICATE

The foregoing ordinance was adopted by the City Commission of the City of Kalamazoo, Michigan, on the 24th day of September, 1984, and was duly recorded, posted, and authenticated by the Mayor and City Clerk as provided by the Charter of said City.

Francis P. Hamilton
Mayor

LuAnn G. Stampfler
City Clerk

CITY OF KALAMAZOO, MICHIGAN

ORDINANCE NO. 564

AN ORDINANCE TO AMMEND THE SUBDIVISION ORDINANCE NO. 541 TO REQUIRE INSTALLATION OF SEWERS WHERE OUTLETS ARE AVAILABLE.

THE CITY OF KALAMAZOO ORDAINS:

Section 1: Section 5.01 of Ordinance 541 is hereby ammended to read as follows:

"Section 5.01. Utility improvements relating to sewers, water mains and fire hydrants and all street improvements shall be provided in each new subdivision in acoordance with the current official standards and requirements recommended by the City Engineer and established by resolution of the City Commission and on file in the office of the Department of Public Works. Where outlets are readily available, new plats shall be equipped with storm and sanitary sewers constructed in a manner approved by the City Engineer."

Section 2: All other ordinances or parts of ordinances inconsistent herewith are hereby repealed.

The foregoing ordinance was adopted by the City Commission of the City of Kalamazoo, Michigan, on the 27th day of July, 1959, and was duly recorded, posted and authenticated by the Mayor and City Clerk, as provided by the Charter of said City.

GLENN S. ALLEN, JR., MAYOR

Marie K. Rilarski

MARIE K. RILARSKI, CITY CLERK

ORDINANCE NO. 394

An ordinance to regulate the installation of equipment with regard to the use of city sewers.

THE CITY OF KALAMAZOO ORDAINS:

Section 1. PURPOSE. The purpose of this ordinance is to prevent the overloading of the sewers of the City of Kalamazoo, Michigan, by the discharge thereinto of water used for any cooling purpose.

Section 2. DEFINITIONS. For the purpose of this ordinance, the following definitions shall apply:

(a) "Direct Water Cooling" shall mean the use of water as a refrigerant or used as a primary heat transfer medium.

(b) "Indirect Water Cooling" shall mean the use of water to extract heat from a refrigerant or used as a secondary heat transfer medium.

Section 3. DIRECT OR INDIRECT WATER COOLING. No equipment using water as a direct or indirect cooling medium may be installed unless a means of water disposal other than discharge into the city's sanitary sewers is provided.

Section 4. Any equipment now in operation in the City of Kalamazoo at the time of the enactment of this Ordinance, using water as a cooling medium, may be continued in its present condition: However, in the event that any such equipment is added to, replaced, installed or re-installed the provisions of this Ordinance shall apply.

Any authorized agent of the City of Kalamazoo may enter onto the premises of anyone using water as a cooling medium for equipment, any time that the sewers connected to such equipment becomes overloaded, and may order such equipment shut off, and in the event it is not so shut off promptly, such agent of the City of Kalamazoo may shut the same off so that there cannot be any entry into the city sewers during the period the same is overloaded.

Section 5. PERMITS. No person, firm or corporation desiring to use any such equipment shall commence installing the same until there has been filed with the Building Inspector of the City of Kalamazoo such information as, in his judgment, is necessary to enable him to determine whether or not such equipment meets the requirements of this Ordinance. No permit for the installation of any such equipment may be issued by the Building Inspector involving a connection to the city's storm sewers until a permit has been obtained from the City Manager.

Section 6. Any person who shall violate, or fail to comply with the provisions of this Ordinance, or any order or regulation made thereunder shall, upon conviction, be fined not to exceed five hundred ($500.00) dollars for each offense, with costs, and in default of payment of such fine and costs, said person may be imprisoned for a period not exceeding ninety (90) days, or until such fine and costs are paid, whichever is the shorter period.

Section 7. The provisions of Ordinance No. 155 which are inconsistent herewith are hereby repealed as to their application.

The foregoing ordinance was adopted by the City of Kalamazoo, Michigan, on the 2nd day of June, 1952, and approved by the Mayor on the same date.

Mayor

City Clerk

ORDINANCE NO. 155

AN ORDINANCE TO REGULATE THE USE OF STORM SEWERS, TO PROVIDE PENALTIES FOR THE VIOLATION THEREOF AND TO REPEAL ALL ORDINANCES INCONSISTENT THEREWITH.

THE CITY OF KALAMAZOO ORDAINS:

Section 1. No person, firm or corporation shall hereafter connect or attach any downspout, pipe or drain, or cause the same to be connected or attached, to any public storm sewer without first having obtained permission in writing so to do from the Department of Public Works of the City of Kalamazoo, in the manner hereinafter provided.

Section 2. It shall be unlawful for any person, firm or corporation to discharge or flow, or cause to be discharged or flowed, or permit or allow the same to be done from any premises owned or controlled by them, any water or fluid into any public storm sewer or drain or into any sewer, drain or pipe connected with or emptying into any public storm sewer, except waters naturally resulting from rainfall or the melting of snow and ice without first obtaining permission so to do from the City Commission of said City.

Section 3. Any person, firm or corporation desiring to connect any downspout, pipe or drain with any public storm sewer shall make application to said Public Works Department for permission so to do, which application shall state the location thereof, the name and address of the owner and occupant of the premises to be connected and which shall be accompanied by sufficient plans and specifications to enable said Public Works Department to determine whether the same is proposed to be done in a good and workmanlike manner and in accordance with standard practice and so as not to endanger pedestrians and others using the public streets, alleys and places. Upon compliance with the foregoing requirements the Public Works Department shall

issue such permit, but upon the express condition that said applicant shall not use said downspout, pipe or drain, or permit the use thereof for any of the purposes set forth in Section 2 of this ordinance.

Section 4. Any person, firm or corporation who shall violate any of the provisions hereof shall be guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not to exceed $100.00, or by imprisonment in the County Jail for a period not to exceed thirty days, or by both such fine and imprisonment in the discretion of the Court.

Section 5. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

The foregoing Ordinance was adopted by the City Commission of the City of Kalamazoo on the 22nd day of March, 1937 and approved by the Mayor on the same date.

Paul H. Todd
MAYOR

O. K. Howard
CITY CLERK

ATTACHMENT 9

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION
CARL T. JOHNSON
E. M. LAITALA
DEAN PRIDGEON
HILARY F. SNELL
HARRY H. WHITELEY
JOAN L. WOLFE
CHARLES G. YOUNGLOVE

WILLIAM G. MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING, LANSING, MICHIGAN 48926

HOWARD A. TANNER, Director

City of Kalamazoo
241 W. South Street
Kalamazoo, MI 49006

Re: Wastewater Treatment Plant
MI 0023299

Gentlemen:

Your application for a National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate State and Federal regulations.

The Water Resources Commission authorized the issuance of the NPDES permit and the Final Order, you consented to, at our June 23-24, 1977 meeting.

Your NPDES Permit contains: 1) limitations which require you to monitor your effluent in accordance with Part I, Section A , on pages 2, 3 and 4 of 17, and 2) a schedule of compliance which requires you to meet deadlines concerning the construction of waste control facilities in accordance with your Final Order.

REVIEW THE PERMIT AND FINAL ORDER EFFLUENT LIMITS AND PERFORMANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. All violations are audited by the United States Environmental Protection Agency and will appear in a published quarterly non-compliance report made available to agencies and the public.

Your monthly operating report forms will be transmitted to you in the near future. These reports are to be submitted monthly as required by your NPDES permit.

Very truly yours,

WATER QUALITY DIVISION

Paul D. Zugger
Permit & Enforcement Coordinator

Enclosure: Permit & Final Order
cc: A. H. Manzardo (2)
R. J. Courchaine
Comp. Studies
Files
T. K. Wu
C. Odin
R. Schaffer
R. Christensen
P. Blakeslee
K. Zollner
C. Harvey
Southcentral Michigan Planning and Development Council of Region III

No. [illegible]

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.213 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 322.1 through 322.13 of the Compiled Laws of Michigan, the "Michigan Act"),

The City of Kalamazoo

is authorized to discharge from a facility 1415 N. Harrison, Kalamazoo, Michigan

to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance

This permit and the authorization to discharge shall expire at midnight, March 31, 1982. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

Signed this 30th day of June, 1977, by the Michigan Water Resources Commission.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

1. Interim Effluent Limitations

During the period beginning on the effective date and lasting until June 30, 1977 discharges from the City of Kalamazoo wastewater treatment plant outfall(s) 001 shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

EFFLUENT CHARACTERISTIC	Discharge Load Limitations kg/day (lb/day)		Discharge Concentration Limitations		Monitoring Requirements	
	30 Day Aver.	7 Day Aver.	30 Day Aver.	7 Day Aver.	Measure. Frequency	Sample Type & Location
5-Day 20°C Biochemical Oxygen Demand	12,400 or (27,500)	18,700 or (41,300)	100 mg/l	150 mg/l	7 x weekly	24 hour composite prior to disinfection
Suspended Solids	12,400 or (27,500)	18,700 or (41,300)	100 mg/l	150 mg/l	7 x weekly	24 hour composite prior to disinfection
Fecal Coliform Bacteria	---	---	200/100 ml	400/100 ml	7 x weekly	Grab sample following disinfection
Total Phosphorus (as P)	---	---	See Note Below	---	7 x weekly	24 hour composite prior to disinfection

NOTE: PHOSPHORUS - The effluent shall contain as a maximum not more than 50 percent (50%) of the total phosphorus contained in the sewage and industrial waste prior to treatment and, insofar as optimum operations of the facilities will attain such a level, shall contain not more than 1 mg/l of total phosphorus.

(b) The pH shall not be less than 6.5 nor greater than 9.0. The pH shall be monitored as follows: Daily grab sample. The pH limitation is not subject to averaging and must be met at all times.

(c) The effluent discharge shall be measured daily.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations in Effect May 1 through October 31

During the period beginning July 1, 1977 and lasting until March 31, 1982 discharges from the City of Kalamazoo wastewater treatment Plant outfall(s) 001 shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

EFFLUENT CHARACTERISTIC	DISCHARGE LOAD LIMITATIONS kg/day (lb/day)		DISCHARGE CONCENTRATION LIMITATIONS		MONITORING REQUIREMENTS	
	30 Day Aver.	Daily Maximum	30 Day Aver.	Daily Maximum	Measure. Frequency	Sample Type & Location
5-Day 20°C * Biochemical Oxygen Demand	---	1510 or (3340)	---	10 mg/l	7 x weekly	24 hr composite prior to disinfection
Ammonia Nitrogen (as N) (NH_3-N)	---	300 or (665)	---	2.0 mg/l	7 x weekly	24 hr composite prior to disinfection
Dissolved Oxygen	---	---	---	5.0 mg/l (minimum)	7 x weekly	Grab sample following disinfection
	30 Day Aver.	7 Day Aver.	30 Day Aver.	7 Day Aver.	Measure. Frequency	Sample Type & Location
Suspended Solids	1510 or (3340)	2260 or (5000)	10 mg/l	15 mg/l	7 x weekly	24 hr composite prior to disinfection
Total Phosphorus (as P)	---	---	See Note Below	---	7 x weekly	24 hr composite prior to disinfection
Fecal Coliform Bacteria	---	---	200/100 ml	400/100 ml	7x weekly	Grab sample following disinfection
Copper Zinc - Phenols Cadmium - PCB's Lead Chromium			---		3 x weekly	24 hr composite prior to disinfection

* BOD_5 excluding the oxygen demand attributable to nitrification.

NOTE: PHOSPHORUS - The effluent shall contain as a maximum not more than 20 percent (20%) of the total phosphorus contained in the sewage and industrial waste prior to treatment and, insofar as optimum operations of the facilities will attain such a level, shall contain not more than 1 mg/l of total phosphorus.

(b) The pH shall not be less than 6.5 nor greater than 9.0. The pH shall be monitored as follows: Daily grab sample. The pH limitation is not subject to averaging and must be met at all times.

(c) The effluent flow rate shall be measured daily.

PART I

A. (continued) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations in Effect November 1 through April 30

During the period beginning July 1, 1977 and lasting until March 31, 19[illegible] discharges from the City of Kalamazoo wastewater treatment plant outfall(s) 001 shall be limited and monitored by the permittee as specified below:

(d) The following shall be limited and monitored by the permittee as specified:

EFFLUENT CHARACTERISTIC	DISCHARGE LOAD LIMITATIONS kg/day (lb/day)		DISCHARGE CONCENTRATION LIMITATIONS		MONITORING REQUIREMENTS	
	30 Day Aver.	Daily Maximum	30 Day Aver.	Daily Maximum	Measure. Frequency	Sample Type & Location
5-Day 20°C * Biochemical Oxygen Demand	---	4545 or (10,000)	---	30 mg/l	7 x weekly	24 hr composit prior to disinfection
Dissolved Oxygen	---	---	---	5.0 mg/l (minimum)	7 x weekly	Grab sample prior to disinfection
	30 Day Aver.	7 Day Aver.	30 Day Aver.	7 Day Aver.	Measure. Frequency	Sample Type & Location
Suspended Solids	4545 or (10,000)	6818 or (15,000)	30 mg/l	45 mg/l	7 x weekly	24 hr composit prior to disinfection
Total Phosphorus (as P)	---	---	See Note Below	---	7 x weekly	24 hr com posi prior to disinfection
Fecal Coliform Bacteria	---	---	200/100 ml	400/100 ml	7 x weekly	Grab sample following disinfection
Copper Zinc Cadmium Chromium Phenols PCB's					3 x weekly	24 hr composit prior to disinfection
* BOD_5 excluding the oxygen demand attributable to nitrification.						

NOTE: PHOSPHORUS - The effluent shall contain as a maximum not more than 20 percent (20%) of the total phosphorus contained in the sewage and industrial waste prior to treatment and, insofar as optimum operations of the facilities will attain such a level, shall contain not more than 1 mg/l of total phosphorus.

(e) The pH shall not be less than 6.5 nor greater than 9.0. The pH shall be monitored as follows: Daily grab sample. The pH limitation is not subject to averaging and must be met at all times.

(f) The effluent flow rate shall be measured daily.

PERMIT CONDITIONS

PART I

3. Sludge Disposal Program

In addition to the requirements in Part II, BS herein, the permittee shall provide for the effective management and/or disposal of solids, sludges and other substances removed from or resulting from treatment of the wastewater. Sludge disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in a unlawful pollution of the air, surface waters or groundwaters of the state nor create unlawful nuisance conditions. Such management and/or disposal program shall be set forth in a "Program For Effective Residual Management" report prepared by the permittee. The report shall be submitted to and receive the approval of the Chief of the Water Quality Division on or before June 30, 1978. If the permittee desires to make any substantial changes in the plan, such proposed changes shall be submitted to and approved by the Chief of the Water Quality Division prior to implementation. RGS.

PART I

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

The permittee shall effectively monitor the operation and efficiency of all processes comprising the treatment and control facilities and the quantity and quality of the treated discharge. Monitoring data required by this permit shall be tabulated, summarized and averaged on a calendar month basis. Monthly reports, on forms or format supplied by the Michigan Water Resources Commission, shall be mailed to the address below, postmarked no later than the tenth of the first month following the report period.

State of Michigan
Water Resources Commission
P.O. Box 30028 - Stevens T. Mason Bldg.
c/o Water Quality Division
Lansing, Michigan 48909

3. Definitions

a. The 30 consecutive day average other than for fecal or total coliform bacteria, is defined as the sum of the concentrations and/or weights of the individual samples divided by the number of samples taken during a 30 day period. The 30 consecutive day average for fecal or total coliform bacteria is the geometric mean of the samples collected in a 30 day period.

b. The 7 consecutive day average other than for fecal or total coliform bacteria, is defined as the sum of the concentrations and/or weights of the individual samples divided by the number of samples taken during a 7 day period. The 7 consecutive day average for fecal or total coliform bacteria is the geometric mean of the samples collected in a 7 day period.

c. The maximum limitation is defined as the permissible maximum concentration and/or weight in any individual sample taken during the month.

4. Test Procedures

a. Wastewater or effluent analysis values are to be determined using a twenty-four hour, flow proportioned composite sample consisting of hourly or more frequent portions for all analyses identified as "24 hour composite".

b. Wastewater or effluent analysis values are to be determined using a single sample of wastewater taken at neither set time nor flow for all analyses identified as "grab".

c. Coliform bacterial analyses (fecal and/or total, at facilities providing chemical disinfection) shall be performed on "grab" samples collected at varying times during an operating day and information derived therefrom shall be used in conjunction with flow rate and loading variations and disinfectant feed rates to provide optimum disinfectant residual levels consistent with the bacterial limitations prescribed herein.

d. Other measurements of oxygen demand may be substituted for Biochemical Oxygen Demand (B.O.D.) where the permittee can demonstrate long term correlation of the method with B.O.D. values. Substitution of such measurements must receive prior approval from the Michigan Water Resources Commission.

e. The analytical and sampling methods used shall conform to the rules and regulations promulgated under Section 304(g) of the "Act" (Title 40, Capter 1, Subchapter D, Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Michigan Water Resources Commission upon request.

f. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to insure accuracy of measurements.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Michigan Water Resources Commission or the Regional Administrator.

PART I

C. INDUSTRIAL WASTE CONTROL

1. Requirements of Section 204 (b), 307, and 308 of the Act.

The permittee shall require all Major Contributing Industries to comply with applicable portions of Sections 204 (b), 307, and 308 of the Act. A major Contributing Industry is one that:

(a) Has a flow of 50,000 gallons or more per average workday;
(b) Has a flow greater than five percent of the flow carried by the municipal system receiving the waste;
(c) Has in its waste a toxic pollutant in toxic amounts as defined in standards issued under Section 307 (a) of the federal Act;
(d) Has significant impact, either singly or in combination with other contributing industries, on the treatment works or the quality of its effluent.

2. Industrial Surveillance Report

The permittee shall develop an Industrial Surveillance Report that commits the permittee to an ongoing program of industrial and other non-domestic waste surveillance. The Report should include items as listed in Appendix A. The approved Industrial Surveillance Report shall become an enforceable part of this permit. The Report shall be submitted to the Chief Engineer of the Michigan Water Resources Commission and receive his approval thereof on or before March 31, 1978 . 6/78

3. Pre-Treatment Standards

Based on information received pursuant to the Industrial Surveillance Report, the permittee will be notified by the Chief Engineer of the Michigan Water Resources Commission of the availability of industrial pre-treatment standards promulgated by the Environmental Protection Agency pursuant to Section 307 of the Act. Copies of said standards will be provided as appropriate.

a. Not later than 120 days following receipt of such notification the permittee shall begin quarterly reporting to the Michigan Water Resources Commission. The report should contain information on the Major Contributing Industries as follows:

(1) Name and address.

(2) Nature of enterprise including quantity of product produced or raw material processed.

(3) Quantity of wastewater discharged to the permittee's system.

(4) Description of pre-treatment provided.

(5) Quantitative description of wastewater quality in terms of appropriate parameters, concentrations, and loadings.

PART I, Section C-3 (Continued...)

(6) Computed allowable inputs pursuant to prumulated pre-treatment standards.

b. Not later than 120 days following receipt of such notification the permittee shall have begun effective monitoring the waste collection system for violations of the Sewer Use and Industrial Waste Control Ordinance and federal pre-treatment standards.

c. Not later than 6 months following receipt of such notification the permittee shall have promulgated an enforceable Sewer Use and Industrial Waste Control Ordinance that has been approved by the Chief Engineer of the Michigan Water Resources Commission.

PART II

A. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission is located in the Stevens T. Mason Building, Lansing, Michigan, and has been delegated the authority to administer the NPDES permit in the State of Michigan.

2. Regional Administrator

Where used within this permit the term Regional Administrator shall mean the Administrator, Region V, U.S. Environmental Protection Agency.

B. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide facilities approved under Act 98, Public Acts of 1913 as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5, for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911 - R 299.2927.)

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Michigan Water Resources Commission and the Regional Administrator with the following information, in writing, within five (5) days of becoming aware of such condition:

a. A description of the circumstances and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilites shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

c. Maintenance of treatment facilities shall not result in degradation of effluent quality, or if degradation of effluent is unavoidable shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by the permitting authority.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system.

(1) Wastes which create a fire or explosion hazard in the treatment works.

(2) Wastes which will cause corrosive structural damage to treatment works.

(3) Solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment works.

(4) Wastewaters at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so as to cause a loss of treatment efficiency.

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

7. By-passing

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Michigan Water Resources Commission of any such occurrence by telephone at (517) 373-7660. Such notice shall be supplemented by a written report within 10 days detailing the cause of such diversion or bypass and the corrective actions taken to minimize adverse impact and eliminate the need for future diversion or bypass.

8. Removed Substances and Leachates

Solids, sludges, filter backwash, leachates or other pollutants removed from or resulting from treatment or control of wastewaters shall be controlled in a manner so as to protect public health and to prevent any pollutant from such materials from entering navigable waters, or the entry of toxic or harmful contaminants thereof into the groundwaters in concentrations or amounts detrimental to the groundwater resource. Effective groundwater monitoring shall be provided in accordance with a program approved under Act 98, Public Acts of 1913, as amended.

9. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall:

a. Provide an alternative power source sufficient to operate facilities utilized by permittee to maintain compliance with the effluent limitations and conditions of this permit.

b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

C. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Chief Engineer of the Michigan Water Resources Commission and the Regional Administrator.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Michigan Water Resources Commission and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully, all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, C-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, B-7) and "Power Failures" (Part II, B-9), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or natural disasters.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

10. Facility Construction

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, the modification of any existing wastewater facility, or the undertaking of any work in any navigable waters. Approval for such construction must be by permit issued under Michigan Act 98, Public Acts of 1913, as amended.

11. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

APPENDIX A

Industrial Surveillance Report

A complete Industrial Surveillance Report commits the permittee to an ongoing program of industrial and other non-domestic waste surveillance and includes the following:

a. A plan for the identification of all non-domestic users of the municipal waste collection system, and, where appropriate, obtaining information on the quantity and quality of wastes received for treatment. The plan shall contain a time schedule with specific dates for the compilation of the information obtained in a List of Non-Domestic Users for submittal to the Chief Engineer of the Michigan Water Resources Commission. As much of the following information should be included in the list as is appropriate.

   (1) The name and mailing address of all Non-Domestic Users of the waste collection system, including both local facility address and main office address, if different.

   (2) The principal enterprise of the user, including if appropriate, the product(s) produced or raw material(s) processed and the quantity per unit time. Some indication of the magnitude of the enterprise should be given.

   (3) The quantity of wastewater discharged daily and whether the discharge is intermittent or continuous.

   (4) A description of the pre-treatment, if any, provided prior to discharge to the collection system.

   (5) A quantitative description of the wastewater character in terms of appropriate parameters and concentrations.

b. A plan for the development of an enforceable Sewer Use and Indutrial Waste Control Ordinance. The plan should conclude with the promulgation of the Ordinance not later than one year following approval of the Industrial Surveillance Report, and shall include specific dates for completion of each step in the process of promulgation. Such ordinance shall include at least the following:

   (1) Authority to ensure compliance of all Major Contributing Industries with federal pretreatment standards and other requirements in accordance with Section 307 of the federal Act.

   (2) Authority to require major contributing industries to submit semi annual notice of progress toward complying with pretreatment standards.

   (3) Authority to municipal and state agents to enter all properties of the industry for the purpose of inspection, observation, measurement, sampling and testing.

(4) Authority to require that wastewaters be accessible, through such means as a control manhole, for the purposes of inspection, observation, measurement, sampling, and testing.

(5) Authority to require industries to monitor and report on their wastewaters to the municipality.

(6) Civil and/or criminal penalties for violations, including fines and/or termination of discharge authorization.

c. A plan for monitoring the waste collection system for violations of the Sewer Use and Industrial Waste Control Ordinance and the federal Act. The plan shall include:

(1) Quarterly reporting to the Michigan Water Resources Commission of modifications to the List of Non-Domestic Users.

(2) Compilation of a Major Contributing Industries List incorporating the information obtained from Paragraph 1-a of this Section and the primary Standard Industrial Classification Code for all Major Contributing Industries tributary to the treatment facilities.

(3) Semi-Annual reporting to the Michigan Water Resources Commission of the progress of the Major Contributing Industries toward full compliance with the requirements of Section 307 of the federal Act.

(4) A municipal sampling and monitoring program to determine the quality and quantity of wastes from Non-Domestic Users, and to verify data submitted by Non-Domestic Users.

MIXING ZONE

Discharge Identification City of Kalamazoo Wastewater Treatment Plant

Discharge Location to the Kalamazoo River in Section 10, T 2 S, R 11 W

Outfall Number(s) 001

The mixing zone for purposes of evaluating compliance with the State Water Quality Standards is defined as the left one-quarter (1/4) of the Kalamazoo River for a distance of 1000 feet downstream from the point of discharge.

STATE OF MICHIGAN

Order No. FO 1857

DEPARTMENT OF NATURAL RESOURCES

WATER RESOURCES COMMISSION

IN THE MATTER OF ABATEMENT OF WATER POLLUTION: City of Kalamazoo

NPDES PERMIT NO. MI 0023299

FINAL ORDER OF DETERMINATION
AND
ORDER AUTHORIZING THE ISSUANCE OF NPDES PERMIT MI 0023299

At a session of the Water Resources Commission on June 24, 1977, at Cadillac, Michigan, upon a presentation by staff of the Water Quality Division, Department of Natural Resources and based upon the official files of the Water Quality Division, Department of Natural Resources, and it appearing that:

It is the express finding of fact of the Water Resources Commission that Federal Law, P.L. 92-500 (Federal Water Pollution Control Act Amendments of 1972) and State Law, Act 245, Public Acts of 1929, as amended, require that all publicly owned treatment facilities provide treatment commensurate with secondary treatment and capable of complying with the State's Water Quality Standards by July 1, 1977.

It is further the express finding of fact of the Water Resources Commission that the City of Kalamazoo, hereinafter referred to as the "permittee", was issued an NPDES Permit No. MI 0023299 on December 6, 1974, for the discharge of treated wastewater to the waters of the state and said permit expires at midnight on June 30, 1977.

It is further the express finding of fact of the Water Resources Commission that the permittee reapplied for a new permit to discharge sanitary sewage to the waters of the state beyond July 1, 1977.

It is further the express finding of fact of the Water Resources Commission that the permittee will not have adequate facilities to provide treatment commensurate with secondary treatment and/or insure that the state's water quality standards will not be violated by July 1, 1977.

It is further the express finding of fact of the Water Resources Commission that the permittee has applied for a Federal Construction Grant or is in a Plan of Study Area of a grant applicant and therefore grants may be available for the construction of the necessary facilities and that the permittee has pursued the funding of this project with a good faith effort.

It is further the express finding of fact of the Water Resources Commission that the permittee has agreed to the terms and conditions of this Consent Order and the permittee has expressly approved and consented to the entry of this Consent Order as a Final Order for this Commission. And the Commission having reviewed and approved this proposed Consent Order.

NOW THEREFORE, IT IS HEREBY ORDERED that
for a new NPDES permit to discharge treated wastewaters to the waters of the state beyond July 1, 1977, is granted.

IT IS FURTHER ORDERED that said permit, this Final Order and authorization to discharge to the waters of the state will expire at midnight on March 31, 1982.

IT IS FURTHER ORDERED that the City of Kalamazoo shall comply with and complete a program to achieve and maintain the Final Effluent Limitations set forth in the NPDES Permit in accordance with provisions of this order.

IT IS FURTHER ORDERED that on the date of issuance of this Order until the completion of the treatment program outlined below, the permittee shall operate and maintain their existing waste treatment facilities in such a manner as to comply with the Interim Effluent Limitations set forth in the NPDES permit.

IT IS FURTHER ORDERED that the permittee shall achieve compliance with the Final Effluent Limitations specified in this permit for outfall 001 in accordance with the following:

Status Reports
12/77 ✓
8/78 ✓
3/79 ✓
[illegible]
12/80 ✓
9/81 ✓
6/82
3/83
12/83
9/84
6/85

a. Submit a status report on the progress of project planning, design and construction at intervals not to exceed nine months beginning on December 31, 1977 and continuing until full compliance with the Final Effluent Limitations is achieved.

b. When construction grant assistance under the provisions of the Act or the Michigan Act becomes available, the permittee shall initiate action as prescribed by applicable grant regulations leading to the abatement of pollutional discharges. Schedules for the completion of the Facilities Plan shall be as agreed upon by the permittee or the designated "lead agency", and concurred in by the Regional Administrator and the Michigan Water Resources Commission or their authorized representative as contained in the Step 1 grant. A formal application for a Step 2 grant shall be submitted concurrently with the Facilities Plan.

c. The Facilities Plan for Kalamazoo has been segmented, with a Step 2 design grant having been accepted for the work embodied in Volume 1 of said Facilities Plan. The first segment includes the collection system and primary treatment facilities. Final plans and specifications shall be submitted to and approved by the Department of Natural Resources 16 months after the date of this final order of determination. A formal application for a Step 3 grant shall be submitted concurrently with the final plans and specifications.

d. The second segment of the Kalamazoo Facilities Plan dealing with Advanced Wastewater Treatment (AWT) facilities, shall be completed by June 30, 1977, and a formal application for a Step 2 grant shall be submitted concurrently with Volume 1A to the Water Resources Commission.

e. Final plans and specifications for AWT facilities shall be submitted to and approved by the Department of Natural Resources 20 months after receiving a Step 2 grant offer. A formal application for a Step 3 grant shall be submitted concurrently with the final plans and specifications.

f. Construction shall begin within 4 months after receipt of a Step 3 grant offer for the specific facility.

g. Construction shall be completed within 36 months after receipt of a Step 3 grant offer for the specific facility.

h. Facilities shall achieve operational level necessary to meet the final effluent limitations specified in the NDPES Permit No. MI 0023299 within 3 months after completion of construction of AWT facilities.

No later than fourteen (14) calendar days following any date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of a specified action being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

The City of Kalamazoo is hereby put on notice by this Commission that any material failure to comply with this Final Order may, and probably will, result in prompt enforcement action.

THIS FINAL ORDER ENTERED on June 24, 1977, by direction of the Michigan Water Resources Commission. The Commission specifically retains jurisdiction to modify this Order or enter such further orders and permits as the fact and circumstances may warrant. Any such modiciation or further order or permit shall be considered as a new Final Order for appeal period purposes.

C. William Colburn
Chairman
Water Resources Commission

Approved as to Form and Substance:

City of Kalamazoo

By: Robert C. Bolich
City Mgr.

Dated: June 27, 1977

Recommended for Entry:

Robert J. Coyrchaine
Robert J. Coyrchaine
Executive Secretary

Approved as to Substance:

Michigan Department of Natural Resources
Howard A. Tanner, Director

by: Donald W. Cole
Office of the Director

Dated: June 28, 1977

Approved as to Form:

Frank J. Kelley
Attorney General

by: Stewart H. Freeman
Assistant Attorney General
(24-10)

R. Simms Copy

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
E. B. CARDELLI
JAMES E. FLOHARTY
STEPHEN F. HONSMA
D. STEWART MYERS
EDWARD POLCYRE
HARRY H. WHITELEY

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

RONALD O. SKOOG, Director

[redacted]

RECEIVED
OCT 03 1984
CITY CLERK
KALAMAZOO

CERTIFIED MAIL

Ms. LuAnn Stampfler, Clerk
City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007

Re: NPDES Permit No. MI 0023299

Dear Ms. Stampfler:

Your application for a National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations.

Your NPDES Permit contains: 1) limitations which require you to monitor your effluent in accordance with Part I, Section A; and 2) a schedule of compliance for submittal of information concerning other permit requirements.

REVIEW THE PERMIT EFFLUENT LIMITS AND PERFORMANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the United States Environmental Protection Agency and will appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities shall be complied with in accordance with Part I, Section B of this permit. If applicable, monthly operating report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, and questions regarding the attached permit or NPDES program should be addressed to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2), Data Center, Files,
Water Quality Surveillance, Point Source Monitoring
Compliance Section #1, Fred Morley, Plainwell District,
Land Application Unit, 208 Agency - South Central Michigan
Planning Commission

Permit No. MI 0023299

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the "Michigan Act"),

the City of Kalamazoo

is authorized to discharge from a facility located 1415 North Harrison

designated as the Kalamazoo Wastewater Treatment Plant

to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately on the date of issuance. Any person who feels aggrieved by this permit must file a sworn petition within sixty (60) days of the date of issuance. The Commission may reject any petition filed after 60 days for being untimely. The petition must set forth the grounds for the challenge and specify which conditions of the permit are challenged. Upon granting of a contested case hearing by the Commission, the contested terms and conditions of the permit are stayed until the Commission takes its final action. All other terms and conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition, then such previous condition is in full force and effect until the Commission takes its final action.

This permit and the authorization to discharge shall expire at midnight, August 31, 1989. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated June 1, 1982, and shall supersede any and all Orders of Determination, Stipulations, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission concerning the described discharge(s).

Issued this 25th day of September 1984, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

Reissue

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

1. Interim Effluent Limitations

a. During the period beginning on the date of issuance and lasting until December 31, 1985 the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	LOAD LIMITATIONS		CONCENTRATION LIMITATIONS		MONITORING REQUIREMENTS
		30 Day Average	7 Day Average	30 Day Average	7 Day Average	Testing Frequency
5-Day 20°C Biochemical Oxygen Demand	All Year	6793 kg/day 15012 lb/day	10189 kg/day 22518 lb/day	60 mg/l	90 mg/l	Daily
Suspended Solids	All Year	10755 kg/day 23769 lb/day	19812 kg/day 43785 lb/day	95 mg/l	175 mg/l	Daily
Total Phosphorus (as P)	All Year	---	---	3.0 mg/l	---	Daily
Fecal Coliform Bacteria	All Year	---	---	200/100 ml	400/100 ml	Daily
				Daily Min.	Daily Max.	
pH	All Year	---	---	6.0	9.0	Daily

b. All samples shall be 24 hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the periods that Coliform Bacteria Limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations

a. During the period beginning January 1, 1986 and lasting until date of expiration the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30 Day Avg.	7 Day Avg.	
Carbonaceous 5-Day 20° C Biochemical Oxygen Demand	May 1 to Sept. 30	---	10 mg/l	7 mg/l 1408 kg/day 3112 lb/day	2011 kg/day 4445 lb/day	Daily
	Oct. 1 to Oct. 31	---	15 mg/l	10 mg/l 2011 kg/day 4445 lb/day	3017 kg/day 6668 lb/day	Daily
5-Day 20°C Biochemical Oxygen Demand	Nov. 1 to April 30	---	---	30 mg/l 6034 kg/day 13336 lb/day	45 mg/l 9051 kg/day 20003 lb/day	Daily
Ammonia Nitrogen (as N)(NH_3-N)	May 1 to Sept. 30	---	2.0 mg/l	---	402 kg/day 889 lb/day	Daily
	Oct. 1 to Oct. 31 April 30	---	10.0 mg/l	---	2011 kg/day 4445 lb/day	Daily
Suspended Solids	May 1 to Sept. 30	---	---	20 mg/l 4023 kg/day 8890 lb/day	30 mg/l 6034 kg/day 13336 lb/day	Daily
	Oct. 1 to April 30	---	---	30 mg/l 6034 kg/day 13336 lb/day	45 mg/l 9051 kg/day 20003 lb/day	Daily
pH	All Year	6.0	9.0	---	---	Daily
Dissolved Oxygen	All Year	4.0 mg/l	---	---	---	Daily
Fecal Coliform Bacteria	May 15 to Oct. 15	---	---	200/100 ml	400/100 ml	Daily
Total Phosphorus (as P)	All Year	---	---	1.0 mg/l 225 lb/day*	---	Daily
Total Residual Chlorine	All Year beginning 7-1-88	---	0.043 mg/l	---	---	Daily during periods of disinfection

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: Annual Average Design Flow of 53.3 MGD

FEL

PART I, Section A-2

b. All samples shall be 24 hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria Limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. The carbonaceous BOD_5 limitation shall be considered as BOD_5 excluding the oxygen demand attributable to nitrification.

f. Variance Opportunity - Opportunity exists under the Provision of Rules of the Michigan Water Resources Commission (R 323.1082) to demonstrate to the Commission that the concentration of a material potentially toxic to fish or fish food organisms greater than the 96 hour TL_m (0.024 mg/l Total Residual Chlorine) is acceptable. The demonstration, if undertaken, shall conclusively demonstrate to the satisfaction of the Commission that such higher concentration will not cause an irreversible response which results in deleterious effects to populations of important aquatic life and wildlife, and interference with passage of fish and fish food organisms results only to the extent that impacts on their immediate and future populations are negligible or not measurable. Such a demonstration, if undertaken, shall be submitted to the Chief of the Surface Water Quality Division on or before September 1, 1986.

g. In addition to the BOD and Suspended Solids limitations above, the 30-day average effluent BOD and Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period. This applies for the time period of November 1 through April 30.

*It is recognized that the City of Kalamazoo will be undertaking studies regarding the discharge of phosphorus from its wastewater treatment plant. The studies will include a program to identify the sources of phosphorus to the treatment plant, what phosphorus reductions are possible, and what resultant phosphorus reductions may be expected in the wastewater treatment plant effluent. In addition, the City of Kalamazoo will be studying the effects of its discharge on the Kalamazoo River with respect to nutrient loadings and resultant nuisance plant growths. Upon completion of the studies, the City of Kalamazoo will submit to the Chief of the Surface Water Quality Division a report which summarizes the findings of the studies. Following review of this new information, staff may recommend to the Water Resources Commission that the phosphorus limitation be revised and the permit modified accordingly.

PART I, Section A

3. Start-Up Notification

It is acknowledged that new or expanded wastewater treatment facilities are proposed or under construction. The permittee shall give the Chief of the Surface Water Quality Division written notification of the anticipated date of start-up of the new facilities. This written notification shall be received at least 6 months prior to "start-up". "Start-up" means that point in time when the new facilities should be expected to perform as designed.

It is anticipated that a certain length of time will transpire between the completion of construction and start-up for the purpose of establishing the biological treatment process and solving equipment problems.

PART I

B. INDUSTRIAL WASTE PRETREATMENT PROGRAM

The permittee shall develop and implement an Industrial Waste Pretreatment and NonDomestic User Control Program that enables the permittee to detect and enforce against violations of federal, state, and local standards for the protection of the wastewater treatment works, its operation, and the aquatic environment. This program is required under the authority of Section 307(b) and (c) and Section 402(b)(8) of the Clean Water Act; Section 6b of the Michigan Act 245 of 1929, as amended; Sections 1 and 11 of Michigan Act 98, of 1913, as amended; and federal regulations 40 CFR 403.

In certain cases, there may be Construction Grant funds available to assist permittees to develop an Industrial Waste Pretreatment Program. The permittee is hereby advised that development and implementation of the program described herein is not contingent on available Grant funding.

The permittee shall submit all documents required for the Pretreatment Program to the attention of the Chief of the Surface Water Quality Division, Michigan Department of Natural Resources, P.O. Box 30028, Lansing, Michigan, 48909. The permittee is referred to Part II, Section A-2 for definitions of several important terms used in this Section. The development of the Industrial Waste Pretreatment shall be as follows:

1. Industrial Waste Pretreatment and NonDomestic User Control Program

a. On or before (submitted 11/81), submit for approval a Master Plan to develop and implement an Industrial Waste Pretreatment and NonDomestic User Control Program. The Master Plan shall identify a series of necessary tasks which shall lead to ultimate approval by the State of the permittee's ongoing surveillance program. The Master Plan shall address and expand on the following general areas identified in the Code of Federal Regulations (CFR) entitled "General Pretreatment Regulations for Existing and New Sources of Pollution" issued Monday, January 28, 1981:

Legal Authorities - 40CFR403.8(f)(1)(i) thru (vi)

Procedures - 40CFR403.8(f)(2)(i) thru (vii)

Funding - 40CFR403.8(f)(3)

This Master Plan shall make full use of Industrial User and NonDomestic User surveillance information that may have resulted from the identification, classification and survey requirements of any previous NPDES permit.

A timetable shall be prepared by the permittee and submitted with the Master Plan. This timetable shall include appropriate intermediate tasks and predicted completion dates. The following dates and task descriptions shall form the basic timetable structure for program development. Other tasks and dates established by the permittee may be modified at the permittee's discretion.

Notice is hereby given that upon State approval, the permit shall be modified to incorporate the local pretreatment program.

PART I, Section B-1b

b. On or before (submitted 6/82) submit the results of a User Survey which includes the identification of NonDomestic Users of the waste collection system. The submittal shall designate various NonDomestic Users as Major Users and explain the rationale used in the designation. For all NonDomestic Users the following information shall be included:

(1) The name and mailing address of all NonDomestic Users of the waste collection system, including both local facility address and main office address, if different.

(2) The principal enterprise of the user, including if appropriate, the product(s) produced or raw material(s) processed and the quantity per unit time. An indication of the magnitude of the enterprise should be given. All facilities in industrial classifications identified by EPA as being subject to pretreatment control shall be identified by Standard Industrial Classification code (SIC) (see attachment A for SIC listing).

(3) The quantity of wastewater discharged daily and whether the discharge is intermittent or continuous.

(4) A description of any pretreatment provided prior to discharge to the waste collection system.

(5) A qualitative description of the wastewater character in terms of appropriate parameters and concentrations (see attachment B for possible pollutant parameters of concern).

(6) A list of all chemicals used for process, cooling water, boiler water, or other purposes with an indication of quantity used and disposition of spent chemicals.

c. On or before (submitted 12/82) submit for approval draft versions of sewer use ordinances, statutes, contracts and/or joint powers agreements necessary to provide the permittee with legal authorities described in 40 CFR 403.8(f)(1)(i) through (vi) throughout the area served by the permittee's facility.

The legal authorities shall enable the permittee to:

(1) Deny or condition new or increased contributions of pollutants, or changes in the nature of pollutants, to the waste collection system by Industrial and NonDomestic Users.

(2) Require compliance with applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(3) Control, through permit, contract, order, or similar means, the contribution to the waste collection system by Industrial and NonDomestic Users.

PART I, Section B-1c

(4) Require the development of compliance schedules by Industrial and NonDomestic Users for the installation of facilities required to meet applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(5) Require the submission of notices and self-monitoring reports from Industrial and NonDomestic Users to assess and assure compliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(6) Carry out all inspection, surveillance and monitoring procedures necessary to determine, independent of information supplied by Industrial and NonDomestic Users, compliance or noncompliance with applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(7) Seek injunctive relief for noncompliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(8) Require Industrial and NonDomestic Users to install containment facilities to protect the treatment works from accidental spills of critical or hazardous materials.

d. On or before (Submitted 12/82) submit for approval and request approval to implement the complete Industrial Waste Pretreatment and NonDomestic User Control Program. A request for program approval shall be accompanied with:

(1) Applicable statutues, ordinances, permits, contracts, etc.

(2) A detailed description of mechanisms, proposed to enforce the compliance schedules developed for NonDomestic Users.

(3) Inspection and monitoring program procedures to assess compliance or noncompliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(4) A detailed description of mechanisms proposed to remedy non-compliance with the National Pretreatment Standards, and other more restrictive requirements as may be imposed by the permittee including administrative relief and injunctive relief.

(5) A listing of monitoring and analytical equipment needs required to implement the local program.

e. Implement and enforce the approved Industrial Waste Pretreatment and NonDomestic User Control Program within one month after approval by the Surface Water Quality Division.

PART I, Section B

2. Progress Reports

Progress Reports shall be submitted every six (6) months to summarize progress in achieving the major compliance dates (enumerated in paragraph 1 above) and projected timetable submitted by the permittee along with the Master Plan. These reports shall include a NonDomestic User List and Major User List update. The first report is due on or before (submitted 12/82). Progress reporting requirements shall cease with the approval of the Industrial Waste Pretreatment and NonDomestic User Control Program and shall be replaced by Compliance Reports.

3. Compliance Reports

Compliance Reports shall be submitted every six (6) months to summarize the enforcement activities undertaken and surveillance performed by the permittee concerning the approved Industrial Waste Pretreatment and NonDomestic User Control Program. These reports shall discuss the progress by the Major Users in achieving adequate pretreatment. These reports shall also update the NonDomestic User List and the Major User List. The first Compliance Reports are due six months following approval of the Industrial Waste Pretreatment and NonDomestic User Control Program and shall continue for the duration of this permit.

4. Removal Credit

The permittee may request a removal credit be granted from National Categorical Pretreatment Standards if:

a. consistent removal is substantiated; and

b. no adverse impact is created by the treatment facility discharge; and

c. no adverse impact is created on the residuals management program.

(For additional details and reporting requirements, see 40 CFR 403.7 and 40 CFR 403.12 h, i, j and l, m, n.)

PERMIT CONDITIONS

PART I

C. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT

In addition to the requirements in Part II, Section C-8, herein, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or ground waters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

1.) a management plan (treatment, transportation, storage, disposal, contingency plans);

2.) an inventory of residuals production, storage, and disposal for a period of at least one year;

3.) an analysis of the residuals;

4.) a monitoring program;

5.) if land application is proposed, site maps, soil analyses, application rates, proposed vegetation, and other pertinent information; and

6.) if ground water degradation potential exists, a hydrogeologic study.

A program has previously been submitted to and approved by the Chief of the Surface Water Quality Division. The permittee shall certify that current and future residuals management practices will be in accordance with the approved program or shall submit proposed modifications to the approved program. The program certification or proposed modifications shall be submitted to and receive the approval of the Chief of the Surface Water Quality Division on or before December 31, 1984.

Disposal of residuals resulting from the treatment of wastewater shall be in accordance with the previously approved program until proposed modifications are approved. If at any time the permittee desires to make any substantial changes in the approved program the proposed changes shall be submitted to and approved by the Chief of the Surface Water Quality Division prior to implementation. Substantial changes shall include, but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART I

D. SCHEDULE OF COMPLIANCE

1. Facility Construction

In accordance with Section 301(i)(1) of the Act, it has been demonstrated that an extension to achieve compliance with limitations under 301(b)(1)(B) or 301(b)(1)(C) should be granted. Therefore, the following Schedule of Compliance for achieving the final effluent limitations is established.

The permittee shall achieve compliance with the Final Effluent Limitations specified in this permit for outfall(s) 001 in accordance with the following:

a. Submit a status report on the progress of project planning, design and construction at intervals not to exceed nine months beginning on September 30, 1984 and continuing until full compliance with the Final Effluent Limitations is achieved.

b. Facilities shall achieve operational level on or before January 1, 1986.

PART I

D. SCHEDULE OF COMPLIANCE

2. Alternative Power Sources

a. The permittee shall submit an Alternative Power Source Report to the Chief of the Surface Water Quality Division for approval documenting compliance with the requirements of Part II, Section C-9 (Power Failures) of this permit on or before December 1, 1984.

The report shall (1) identify all essential treatment equipment and pumping stations utilized for transportation and treatment of wastes collected within the service area of the facility governed by this permit, and (2) document the alternative power source, or other means of providing continuity of service during periods of power failures, for each essential item identified.

b. If notified by the Surface Water Quality Division that the Alternative Power Source Report submitted by the permittee indicates a lack of adequate alternative power at the permittee's facilities, then the permittee shall submit to the Chief of the Surface Water Quality Division an approvable plan and schedule for providing adequate alternative power within three (3) months after being so notified. The approved plan and schedule shall become an enforceable part of this permit.

PERMIT CONDITIONS

PART I

D. SCHEDULE OF COMPLIANCE

3. Written Report Required

Within 14 days of every program requirement date specified in this permit the permittee shall submit a written report to the Chief of the Surface Water Quality Division stating whether or not the particular task was accomplished. If the task was not accomplished, the report shall also include: an explanation of the failure to accomplish the task, actions taken by the permittee to correct the situations, and an estimate of when the task will be accomplished.

If the task requires submission of a written report and the task was accomplished, a separate written report is not required.

PERMIT CONDITIONS

PART II

A. REPORTING, DEFINITIONS, AND MONITORING

1. Reporting

The permittee shall effectively monitor the operation of all processes comprising the treatment and control facilities. Monitoring data required by this permit and other data required by the Surface Water Quality Division shall be tabulated and summarized on a calendar month basis. Monthly reports, on forms or format supplied by the Surface Water Quality Division, shall be mailed to the address below, postmarked no later than the tenth (10th) of the first month following the report period.

Department of Natural Resources
Data Center
P.O. Box 30028
Lansing, Michigan 48909

2. Definitions

a. 30-Day Average Concentration

The 30-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during a calendar month. The 30-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in a calendar month.

b. 7-Day Average Concentration

The 7-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive day period of a calendar month. The 7-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in any 7 consecutive day period of a calendar month.

c. 30-Day Average Load

The 30-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during a calendar month.

d. 7-Day Average Load

The 7-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during any 7 consecutive days in a calendar month.

PART II, Section A-2

e. Maximum Concentration

The maximum concentration limitation is defined as the permissible maximum concentration of a pollutant in any individual sample.

f. Maximum Load

The maximum load limitation is defined as the permissible maximum weight of a pollutant discharged in any single day.

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Non-Domestic User

A Non-Domestic User is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A Major User is defined as a Non-Domestic User that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works;
(2) discharges any toxic or hazardous materials such as, but not limited to, those listed in Attachment B, or
(3) discharges any substance that may cause interference with the operation of the treatment works, and

is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as any inhibition or disruption of the permittee's sewer system, treatment process, operations, or residuals management program, which may contribute to a violation of the NPDES permit.

l. National Pretreatment Standards

National Pretreatment Standards are defined as the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Act. The standards establish nationwide limits for specific industrial categories for discharge to Publicly Owned Treatment Works.

PART II, Section A-2

m. Pretreatment

Pretreatment is defined as reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

n. Water Quality Standards

The Water Quality Standards are defined as Part 4 of the General Rules of the Michigan Water Resources Commission promulgated by authority of Sections 2 and 5 of the Michigan Act.

3. Monitoring

a. The analytical test procedures used shall conform to the rules and regulations promulgated under Section 304(h) of the "Act" (Title 40, Chapter 1, Subchapter D., Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Surface Water Quality Division on request. For parameters not covered by the regulations, test procedures shall be approved by the Surface Water Quality Division.

b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

c. Fecal or Total Coliform analyses, at facilities using chlorine for disinfection, shall be performed on "grab" samples collected at varying times during an operating day. Information derived therefrom shall be correlated with chlorine residual levels, flow rate, and loading variations for the purpose of minimizing chlorine use, while maintaining compliance with the effluent limitations.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

PART II, Section A

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, Region V, U.S. Environmental Protection Agency, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the appropriate district office of the Surface Water Quality Division.

C. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of that authorized, shall constitute a violation of the permit. Any anticipated significant loading increase, facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Surface Water Quality Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

PART II, Section C

2. Containment Facilities

The permittee shall provide facilities approved under Act 98, Public Acts of 1913 as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5, for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911 - R 299.2927).

4. Non-compliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Surface Water Quality Division and the Regional Administrator with the following information, in writing, at the time of submittal of the monthly operating data:

a. A description of the circumstances and cause of non-compliance; and

b. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-compliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is qualified to carry out the operation, maintenance and testing functions required to ensure compliance with this permit.

c. Maintenance of treatment facilities shall not result in degradation of effluent quality.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system:

(1) Wastes which create or can create a fire or explosion hazard-defined as being greater than 20% of the lower explosive limit (LEL) for the substance.

(2) Wastes which create or cause corrosive structural damage.

(3) Wastes with pH lower than 5.0 or greater than 11.0.

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works.

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works.

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40° C (104° F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from non-compliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the non-compliance.

7. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report within five (5) days detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

8. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in degradation of any surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

9. Power Failures

In order to maintain compliance with the effluent limitations and prevent unauthorized discharges the permittee shall:

a. Provide alternative power or equipment sufficient to operate essential facilities utilized by permittee to comply with this permit in accordance with Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability published by the Federal Environmental Protection Agency (EPA - 430-99-74-001), or

b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with this permit, the permittee shall halt, reduce or otherwise control all discharges in order to maintain compliance with the effluent limitations and conditions of this permit.

PART II, Section D

D. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Surface Water Quality Division and the Regional Administrator 30 days prior to the actual transfer of control or ownership.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Surface Water Quality Division and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. The establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, C-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance.

PART II, Section D

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A

STANDARD INDUSTRIAL CLASSIFICATION CODES

Note: This is an edited list.

Code	Title
AGRICULTURE	
0100	AGRICULTURAL PRODUCTION—CROPS
0200	AGRICULTURAL PRODUCTION—LIVESTOCK
0211	Beef Cattle Feedlots
0241	Dairy farms
0700	AGRICULTURAL SERVICES
MINING	
1000	METAL MINING
1011	Iron Ores
1021	Copper ores
1081	Metal mining services
1300	OIL AND GAS EXTRACTION
1380	Oil and Gas Field Services
1400	NONMETALIC MINERALS
1422	Crushed and broken limestone
1440	Sand and Gravel
1450	Clay and Related Minerals
1470	Chemical and Fertilizer Minerals
1492	Gypsum
CONSTRUCTION	
1500	GENERAL BUILDING CONTRACTORS
1600	HEAVY CONSTRUCTION CONTRACTORS
MANUFACTURING	
2000	FOOD AND KINDRED PRODUCTS
2010	Meat Products
2011	Meat packing plants and slaughter houses
2020	Dairy Products
2030	Preserved Fruits & Vegetables
2033	Canned fruits and vegetables
2035	Pickles sauces and salad dressings
2037	Frozen fruits and vegetables
2040	Grain Mill Products
2043	Cereal breakfast foods
2047	Dog cat and other pet food
2050	Bakery Products
2050	Sugar and Confectionary Products
2063	Beet sugar
2070	Fats and Oils
2076	Vegetable oil mills
2077	Animal and marine fats & oils
2080	Beverages
2082	Malt beverages
2084	Wines brandy and brandy spirits
2085	Distilled liquor except brandy
2086	Bottled and canned soft drinks
2087	Flavoring extracts and sirups nec
2090	Misc Foods and Kindred Products
2091	Canned and cured seafoods
2092	Fresh or frozen packaged fish
2200	TEXTILE MILL PRODUCTS
2300	APPAREL AND OTHER TEXTILE PRODUCTS
2400	LUMBER AND WOOD PRODUCTS
2420	Sawmills and Planing Mills
2430	Millwork Plywood & Structural Members
2440	Wood Containers
2448	Wood pallets and skids
2450	Wood Buildings and Mobile Homes
2490	Miscellaneous Wood Products
2491	Wood preserving
2492	Particleboard
2500	FURNITURE AND FIXTURES
2600	PAPER AND ALLIED PRODUCTS
2611	Pulp mills
2621	Paper mills except building paper
2631	Paperboard mills
2640	Misc Converted Paper Products
2650	Paperboard Containers and Boxes
2661	Building paper and board mills
2700	PRINTING AND PUBLISHING
2710	Newspapers
2750	Commercial Printing
2790	Printing Trade Services
	Manufacturing-cont'd
2800	CHEMICALS AND ALLIED PRODUCTS
2810	Industrial Inorganic Chemicals
2820	Plastics Materials and Synthetics
2830	Drugs
2840	Soap, Cleaners and Toilet Goods
2850	Paints and Allied Products
2860	Industrial Organic Chemicals
2870	Agricultural Chemicals
2890	Miscellaneous Chemical Products
2891	Adhesives and sealants
2892	Explosives
2893	Printing inks
2899	Salt (by evaporation)
2900	PETROLEUM AND COAL PRODUCTS
2911	Petroleum refining
2950	Paving and Roofing Materials
3000	RUBBER AND MISC PLASTIC PRODUCTS
3011	Tires and inner tubes
3069	Fabricated rubber products
3079	Miscellaneous plastic products
3100	LEATHER AND LEATHER PRODUCTS
3111	Leather tanning and finishing
3200	STONE CLAY AND GLASS PRODUCTS
3220	Glass and Glassware Pressed or Blown
3241	Cement
3250	Structural Clay Products
3260	Pottery and Related Products
3270	Concrete Gypsum and Plaster Products
3271	Concrete block and brick
3273	Ready-mixed concrete
3274	Lime
3275	Gypsum products
3290	Misc Nonmetallic Mineral Products
3291	Abrasive products
3292	Asbestos products
3295	Minerals, ground or treated
3297	Nonclay refractories
3300	PRIMARY METAL INDUSTRIES
3310	Blast Furnaces and Basic Steel Products
3312	Blast furnaces and steel mills
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing of steel shapes
3317	Steel pipe and tubes
3320	Iron and Steel Foundries
3321	Gray iron foundries
3322	Malleable iron foundries
3330	Primary Nonferrous Metals
3331	Primary copper
3332	Primary lead
3333	Primary zinc
3334	Primary aluminum
3340	Secondary Nonferrous Metals
3360	Die Casting
3361	Aluminum foundries
3362	Brass bronze and copper foundries
3390	Miscellaneous Primary Metal Products
3398	Metal heat treating
3400	FABRICATED METAL PRODUCTS
3410	Metal Cans and Shipping Containers
3420	Cutlery Hand Tools and Hardware
3430	Plumbing and Heating Except Electric
3440	Fabricated Structural Metal Products
3442	Metal doors sash and trim
3443	Fabricated plate work (boiler shops)
3444	Sheet metal work
3450	Screw Machine Products Bolts etc
3460	Metal Forgings and Stampings
3462	Iron and steel forgings
3463	Nonferrous forgings
3465	Automotive stampings
3470	Metal Services
3471	Plating and polishing
3479	Metal coating and allied services
3480	Ordnance and Accessories
3490	Misc Fabricated Metal Products
3500	MACHINERY EXCEPT ELECTRICAL
3510	Engines and Turbines
3520	Farm and Garden Machinery
3530	Construction and Related Machinery
3540	Metalworking Machinery
3550	Special Industry Machinery
3560	General Industrial Machinery
3570	Office and Computing Machines
3580	Refrigeration and Service Machinery
3590	Misc Machinery Except Electrical
3600	ELECTRIC AND ELECTRONIC EQUIPMENT
3610	Electric Distributing Equipment
3620	Electrical Industrial Apparatus
3630	Household Appliances
3640	Electric Lighting and Wiring Equipment
3650	Radio and TV Receiving Equipment
3660	Communication Equipment
3670	Electronic Components and Accessories
3690	Misc Electrical Equipment & Supplies
	Manufacturing-cont'd
3700	TRANSPORTATION EQUIPMENT
3710	Motor Vehicles and Equipment
3711	Motor vehicles and car bodies
3714	Motor vehicle parts and accessories
3715	Truck trailers
3720	Aircraft and Parts
3730	Ship and Boat Building and Repairing
3740	Railroad Equipment
3750	Motorcycles Bicycles and Parts
3760	Guided Missiles Space Vehicles Parts
3790	Miscellaneous Transportation Equipment
3792	Travel Trailers and campers
3795	Tanks and Tank Components
3800	INSTRUMENTS AND RELATED PRODUCTS
3810	Engineering and Scientific Instruments
3820	Measuring and Controlling Devices
3830	Optical Instruments and Lenses
3840	Medical Instruments and Supplies
3860	Photographic Equipment and Supplies
3900	MISCELLANEOUS MANUFACTURING INDUSTRIES
3910	Jewelry, Silverware and Plated Ware
3930	Musical Instruments
3940	Toys and Sporting Goods
3950	Pens Pencils Office and Art Supplies
3990	Miscellaneous Manufactures
TRANSPORTATION	
4010	RAILROADS
4200	TRUCKING AND WAREHOUSING
4210	Trucking, Local and Long Distance
4214	Hauling Liquid Wastes
4221	Farm product warehousing and storage
4222	Refrigerated Warehousing
4230	Trucking Terminal Facilities
4400	WATER TRANSPORTATION
4430	Great Lakes Transportation
4440	Transportation on Rivers and Canals
4452	Ferries
4454	Towing and tugboat service
4460	Water Transportation Services
4463	Marine cargo handling
SERVICES	
4900	ELECTRIC GAS AND SANITARY SERVICES
4911	Electric services
4925	Gas production and distribution
4953	Refuse systems
5810	EATING AND DRINKING PLACES
6512	OFFICE BUILDINGS
7000	HOTELS AND OTHER LODGING PLACES
7011	Hotels motels and tourist courts
7030	Camps and Trailering Parks
7032	Sporting and recreational camps
7210	Laundry Cleaning & Garment Services
7215	Coin-operated laundries
7391	Laboratories — Testing and Research
7399	Water Softener Service
7500	AUTO REPAIR SERVICES AND GARAGES
7530	Automotive Repair Shops
7542	Car washes
7900	AMUSEMENT & RECREATION SERVICES
7933	Bowling alleys
7940	Commercial Sports
7941	Sports clubs and promoters
7948	Racing including track operation
7992	Public golf courses
7996	Amusement parks
7997	Membership sports & recreation clubs
8000	HEALTH SERVICES
8050	Nursing and Personal Care Facilities
8060	Hospitals
8070	Medical and Dental Laboratories
8080	Outpatient Care Facilities

Federal EPA's List of 65 Priority Pollutants

Acenaphthene
Acrolein
Acrylonitrile
Aldrin/Dieldrin
Antimony and compounds
Arsenic and compounds
Asbestos
Benzene
Benzidine
Beryllium and compounds
Cadmium and compounds
Carbon tetrachloride
Chlordane (technical mixture and metabolites)
Chlorinated benzenes (other than dichlorobenzenes)
Chlorinated ethanes (including 1, 2-dichloroethane, 1, 1, 1-trichloroethane, and hexachloroethane)
Chloroalkyl ethers (chloromethyl, chloroethyl, and mixed ethers)
Chlorinated naphthalene
Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)
Chloroform
2-chlorophenol
Chromium and compounds
Copper and compounds
Cyanides
DDT and metabolites
Dichlorobenzenes (1, 2-,1,3-, and 1,4-dichlorobenzenes)
Dichlorobenzidine
Dichloroethylenes (1,1-and 1,2-dichloroethylene)
2,4-dichlorophenol
Dichloropropane and dichloropropene
2,4-dimethylphenol
Dinitrotoluene
Diphenylhydrazine
Endosulfan and metabolites
Endrin and metabolites
Ethylbenzene
Fluoranthene
Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis (dichloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers)
Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromoform, dichlorobromomethane, trichlorofluoromethane, dichlorodifluoromethane)
Heptachlor and metabolites
Hexachlorobutadiene
Hexachlorocyclohexane (all isomers)
Hexachlorocyclopentadiene
Isophorone
Lead and compounds
Mercury and compounds
Naphthalene
Nickel and compounds
Nitrobenzene
Nitrophenols (including 2,4-dinitrophenol, dinitrocresol)
Nitrosamines
Pentachlorophenol
Phenol
Phthalate esters
Polychlorinated biphenyls (PCBs)
Polynuclear aromatic hydrocarbons (including benzathracenes, benzopyrenes, benzofluoranthene, chrysenes, dibenzanthracenes, and indenopyrenes)
Selenium and compounds
Silver and compounds
2,3,7,8,-Tetrachlorodibenzo-p-dioxin (TCDD)
Tetrachloroethylene
Thallium and compounds
Toluene
Toxaphene
Trichloroethylene
Vinyl chloride
Zinc and compounds

ATTACHMENT B

Michigan Water Resources Commission
CRITICAL MATERIALS REGISTER
Published October 1, 1983

With the exception of critical material classes (where all compounds of the material are to be reported) the parameter number assigned each Critical Material is from the Chemical Abstract Service "Registry Handbook." Additional information concerning the Critical Materials Program and the individual materials may be obtained by writing:

Critical Materials Program
Toxic Chemical Evaluation Section
Environmental Services Division
Michigan DNR
P.O. Box 30028
Lansing, Michigan 48909

I. Inorganic Materials

A. The following inorganic materials and *all their compounds* are to be reported.

	Parameter Number
antimony	Class-01-0
arsenic	Class-01-1
beryllium	Class-01-2
cadmium	Class-01-3
chromium	Class-01-5
cobalt	Class-01-6
copper	Class-01-7
cyanides	Class-01-8
hypochlorite	Class-01-4
lead	Class-01-9
lithium	Class-02-0
mercury	Class-02-1
nickel	Class-02-2
selenium	Class-02-3
silver	Class-02-4
zinc	Class-02-7

B. The following specific inorganic materials are to be reported (do not report compounds).

	Parameter Number
chloramines	Class-08-6
chlorine	07782-50-5
hydrazine	00302-01-2
hydrogen sulfide	07783-06-4

II. Organic Materials

	Parameter Number
acetone cyanohydrin	00075-86-5
2-acetylaminofluorene	00053-96-3
acrolein	00107-02-8
acrylic acid	00079-10-7
acrylonitrile	00107-13-1
allyl chloride	00107-05-1
2-aminoanthraquinone	00117-79-3
aminoazobenzene	00060-09-3
o-aminoazotoluene	00097-56-3
4-aminobiphenyl	00092-67-1
3-amino-9-ethylcarbazole	00132-32-1
1-amino-2-methylanthraquinone	00082-28-0
aminotriazole (amitrole)	00061-82-5
aniline	00062-53-3
o-anisidine	00090-04-0
o-anisidine hydrochloride	00134-29-2
benz(a)anthracene	00056-55-3
benzene	00071-43-2
benzidine	00092-87-5
benzidine salts	Class-08-7
benzo(a)pyrene	00050-32-8
brucine	00357-57-3
carbon tetrachloride	00056-23-5
chlorinated dibenzofurans	Class-05-3
chlorinated dioxins	Class-05-4
1-chloro-2,3-epoxypropane	00106-89-8
bis(2-chloroethyl)ether	00111-44-4
chloroform	00067-66-3
bis(chloromethyl)ether	00542-88-1
3-(chloromethyl)pyridine hydrochloride	06959-48-4
p-chlorophenol	00106-48-9
1-(4-chlorophenyl)-3, 3-dimethyl triazene	07203-90-9
4-chloro-m-phenylenediamine	05131-60-2
4-chloro-o-phenylenediamine	00095-83-0
chloroprene	00126-99-8
5-chloro-o-toluidine	00095-79-4
p-cresidine (5-methyl-o-anisidine)	00120-71-8
2,4-diaminoanisole sulfate	39156-41-7
4,4'-diaminodiphenyl ether	00101-80-4
2,4-diaminotoluene	00095-80-7
dibenz(a,h)anthracene	00053-70-3
tris(dibromopropyl)phosphate	00126-72-7
di-n-butyl phthalate	00084-74-2
3,3'-dichlorobenzidine	00091-94-1
3,3'-dichlorobenzidine salts	Class-08-8
1,2-dichloroethane	00107-06-2
2,4-dichlorophenol	00120-83-2
1,2:3,4-diepoxybutane	00298-18-0
diethyl sulfate	00064-67-5
4-dimethylaminoazobenzene	00060-11-7
dimethylhydrazines	Class-06-2
4,6-dinitro-o-cresol	00534-52-1
-dinitrophenol	00051-28-5
2,4-dinitrotoluene	00121-14-2
di-n-octyl phthalate	00117-84-0
1,4-dioxane	00123-91-1
2,3-epoxy-1-propanal	00765-34-4
ethylene dibromide	00106-93-4
ethyleneimine	00151-56-4
ethylene oxide	00075-21-8
ethylene thiourea	00096-45-7
bis(2-ethylhexyl)phthalate	00117-81-7
ethylmethanesulfonate	00062-50-0
2-(2-formylhydrazino)-4-(5-nitro-2-furyl)-thiazole	03570-75-0
hexachlorobenzene (HCB)	00118-74-1
hexachlorobutadiene	00087-68-3
hexachlorocyclohexane	00608-73-1
hexachlorocyclopentadiene	00077-47-4
hexachloroethane	00067-72-1
hydrazobenzene	00122-66-7
hydroquinone	00123-31-9
N-(2-hydroxyethyl)ethylenemine	01072-52-2
lactonitrile	00078-97-7
malachite green (C.I. Basic Green 4)	00569-64-2
methylenebis(2-chloroaniline)	00101-14-4

Organic Materials (continued)	Parameter Number
4,4'-methylenebis(2-methylaniline)	00838-88-0
4,4'-methylenebis(N,N-dimethylaniline	00101-61-1
1,2-(methylenedioxy)-4-propenyl benzene	00120-58-1
methyl hydrazine	00060-34-4
methyl mercaptan	00074-93-1
1-methylnaphthalene	00090-12-0
2-methyl-1-nitroanthraquinone	00129-15-7
mustard gas	00505-60-2
1,5-naphthalenediamine	02243-62-1
1-naphthylamine	00134-32-7
2-naphthylamine	00091-59-8
5-nitroacenaphthene	00602-87-9
5-nitro-o-anisidine	00099-59-2
4-nitrobiphenyl	00092-93-3
nitrogen mustard	00051-75-2
N-nitroso-n-butyl-N-(4-hydroxybutyl) amine	03817-11-8
N-nitroso-di-n-butylamine	00924-16-3
N-nitrosodiethylamine	00055-18-5
N-nitrosodimethylamine	00062-75-9
p-nitrosodiphenylamine	00156-10-5
N-nitroso-N-ethylurea	00759-73-9
N-nitroso-N-methylurea	00684-93-5
N-nitroso-N-methylurethane	00615-53-2
N-nitrosomorpholine	00059-89-2
N-nitroso-N-phenylhydroxylamine, ammonium salt	00135-20-6
N-nitrososarcosine	13256-22-9
pentachloronitrobenzene	00082-68-8
pentachlorophenol	00087-86-5
peroxyacetic acid	00079-21-0
piperonyl sulfoxide	00120-62-7
polybrominated biphenyls (PBB)	Class-07-8
polychlorinated biphenyls (PCB)	Class-07-9
1,3-propane sultone	01120-71-4
B-propiolactone	00057-57-8
5-propyl-1,3-benzodioxole	00094-58-6
propyleneimine	00075-55-8
semicarbazide	00057-56-7
styrene	00100-42-5
1,1,2,2-tetrachloroethane	00079-34-5
tetrachloroethylene (perchloroethylene)	00127-18-4
thioacetamide	00062-55-5
4,4'-thiodianiline	00139-65-1
thiourea	00062-56-6
o-toluidine	00095-53-4
o-toluidine hydrochloride	00636-21-5
triaryl phosphate esters	Class-08-4
1,1,2-trichloroethane	00079-00-5
trichloroethylene	00079-01-6
2,4,5-trichlorophenol	00095-95-4
2,4,6-trichlorophenol	00088-06-2
2,4,5-trimethylaniline	00137-17-7
trimethylphosphate	00512-56-1
xylene	01330-20-7

III. Pesticides (to be reported only by manufacturers and formulators).

	Parameter Number
aldicarb	00116-06-3
aldrin	00309-00-2
4-aminopyridine	00504-24-5
anilazine	00101-05-3
antimycin A	01397-94-0
azinphos-ethyl	02642-71-9
azinphos-methyl	00086-50-0
barban	00101-27-9
bendiocarb	22781-23-3
benomyl	17804-35-2
bromoxynil	01689-84-5
2-(p-tert-butylphenoxy)-isopropyl-2-chloroethyl sulfite	00140-57-8
captafol	02425-06-1
captan	00133-06-2
carbaryl	00063-25-2
carbofuran	01563-66-2
carbophenothion	00786-19-6
chlordane	00057-74-9
chlordecone	00143-50-0
chlorfenvinphos	00470-90-6
chlorobenzilate	00510-15-6
chlorpyrifos	02921-88-2
clonitralid	01420-04-8
coumaphos	00056-72-4
crotoxyphos	07700-17-6
cycloheximide	00066-81-9
DDT	00050-29-3
demeton	08065-48-3
diallate	02303-16-4
diazinon	00333-41-5
dibromochloropropane (DBCP)	00096-12-8
dichlone	00117-80-6
dichlorvos	00062-73-7
dichrotophos	00141-66-2
dieldrin	00060-57-1
dimethoate	00060-51-5
dinocap	39300-45-3
dinoseb	00088-85-7
dioxathion	00078-34-2
disulfoton	00298-04-4
endosulfan	00115-29-7
endrin	00072-20-8
EPN	02104-64-5
ethion	00563-12-2
fensulfothion	00115-90-2
fenthion	00055-38-9
fluchloralin	33245-39-5
heptachlor	00076-44-8
heptachlor epoxide	01024-57-3
leptophos	21609-90-5
malathion	00121-75-5
methomyl	16752-77-5
methoxychlor	00072-43-5
methyl parathion	00298-00-0
mevinphos	07786-34-7
mexacarbate	00315-18-4
mirex	02385-85-5
monocrotophos	06923-22-4
naled	00300-76-5
nicotine	00054-11-5
nitrofen	01836-75-5
oxydemeton-methyl	00301-12-2
paraquat	01910-42-5
parathion	00056-38-2
phorate	00298-02-2
phosazetim	04104-14-7
phosmet	00732-11-6
phosphamidon	13171-21-6
rotenone	00083-79-4
silvex, propylene glycolbutyl ether ester	02317-24-0
sodium fluoroacetate	00062-74-8
strychnine	00057-24-9
sulfallate	00095-06-7
sulfotepp	03689-24-5
TDE	00072-54-8
TEPP	00107-49-3
terbufos	13071-79-9
tetrachlorvinphos	00961-11-5
thiram	00137-26-8
toxaphene	08001-35-2
bis (tri-n-butyl tin) oxide	00056-35-9
trichlorfon	00052-68-6
trichlorophenoxyacetic acid (2,4,5-T)	00093-76-5
trifluralin	01582-09-8
ziram	00137-30-4

IV. Drugs, Food Additives, Natural Materials (to be reported only by manufacturers and formulators).

	Parameter Number
actinomycin D	00050-76-0
citrus red no. 2	06358-53-8
cycasin	14901-08-7
cyclophosphamide	00050-18-0
diethylstilbestrol	00056-53-1
isonicotinic acid hydrazine	00054-85-3
lasiocarpine	00303-34-4
mestranol	00072-33-3
methylthiouracil	00056-04-2
mitomycin C	00050-07-7
monocrotaline	00315-22-0
nindazole	00061-57-4
nithiazide	00139-94-8
N-(4-(5-nitro-2-furanyl)-2-thiazolyl)acetamide	00531-82-8
phenazopyridine hydrochloride	00136-40-3
phenesterin	03546-10-9
phenobarbitol	00050-06-6
phenytoin	00057-41-0
phenytoin sodium	00630-93-3
propylthiouracil	00051-52-5
uracil mustard	00066-75-1

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
MARLENE J. FLUHARTY
GORDON E. GUYER
KERRY KAMMER
O STEWART MYERS
DAVID D. OLSON
RAYMOND POUPORE

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

Gordon E. Guyer, Director

July 7, 1986

Mr. Richard Simms, Superintendent
Kalamazoo WWTP
1415 N. Harrison
Kalamazoo, Michigan 49001

Re: Kalamazoo WWTP Modification
NPDES Permit MI 0023299

Dear Mr. Simms:

I want to thank you and Mr. Minsley for meeting with us on such short notice about your proposed permit on July 3, 1986.

Attached you will find a copy of the pages 4, 6, and 7 of the proposed permit which were discussed in the meeting. Also, here is a listing of the people in attendance.

You will note there were no changes to the limits on page 4 as we were all in agreement on the issue of the monitoring starting on issuance of the permit and the limits beginning on January 1, 1986.

On page 6 there were some changes due to the discussions during the meeting. These changes were made only to the (i) sub-section. The first word in line 2 of paragraph 1 was changed from "the" to "a". The text in c) was changed to "other rational warrants different final effluent limitations, including whole effluent toxicity based limitations". Finally, the last sentence of paragraph 2 was changed to "The effluent limits contained on page 4 of 23 take effect January 1, 1988, unless this permit is modified by the Water Resources Commission".

On page 7 there was a major rewrite of the second paragraph of sub-section (a), the first two sentences of the paragraph were rewritten. Conditions (1) and (2) were removed and the following statements substituted as you requested: (1) a program and schedule to make reasonable progress toward achieving the above limitations; (2) a proposal to use biomonitoring or other techniques to determine progress towards compliance. The LTWQBEL limit for PCB was corrected to 1.2×10^{-5} ug/l. Finally, sub-section (c) was removed.

We hope these changes are in agreement with your understanding of the changes made during the meeting. Please contact me if you have any problems with the above changes. We still propose to submit your permit to the Water Resources Commission for modification at the July 17, 1986 meeting in Lansing.

Sincerely,

Alex McCrae

Alex McCrae
Permits Section
Surface Water Quality Division
517-373-8088

Kalamazoo Meeting 7/3/86

Name	Association
Alex McCrae	MDNR-Lansing-Permits
Bruce Minsley	Kalamazoo Public Utilities
R. G. Simms	" " "
John Bantjes	MDNR - Plainwell Dist.
James Grant	MDNR-Lansing
Paul Zugger	" "

PERMIT CONDITIONS

PART I, Section A-2

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30-Day Avg.	7-Day Avg.	
Total Cadmium	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	15 ug/l	1.6 ug/l	---	2 x monthly
Total Lead	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	114 ug/l	24 ug/l	---	2 x monthly
Total Silver	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	0.8 ug/l	---	---	2 x monthly
Amenable Cyanide	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	91 ug/l	10 ug/l	---	2 x monthly
1,2-dichloro-ethane	All Year	---	---	see h.	---	1 x quarterly

PART I, Section A-2

h. The discharger shall notify the Chief of the Surface Water Quality Division in writing within 10 days of any discharge of 1,2 dichloroethane at or above the level of 200 ug/l. This parameter shall be monitored at least quarterly.

If the above notification level is exceeded, the permittee shall promptly commence, unless otherwise notified by the Chief of the Surface Water Quality Division, an investigation into the cause of the discharge. The investigation shall include weekly sampling for 6 weeks. A report shall be submitted to the Chief of the Surface Water Quality Division within 4 months of the notification date containing the 6 weeks of monitoring data, and the permittee's explanation as to the cause, steps taken to correct the situation, and the likelihood of reoccurrence of the discharge, and any modification to existing treatment and control.

i. Demonstration Opportunity Regarding Total Cadmium, Lead, Silver and Amenable Cyanide

The permittee may demonstrate to the Michigan Water Resources Commission that a total cadmium, lead, silver, or amendable cyanide limitation greater than the value listed in the final effluent limitations is acceptable under the Water Quality Standards. Such a demonstration may establish that: a) fish cannot physically inhabit the zone where concentrations of total cadmium, lead, silver, or amenable cyanide are greater than the listed limit, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher aquatic criteria, or c) other rationale warrants different final effluent limitations, including whole effluent toxicity based limitations.

The permittee shall notify the Michigan Water Resources Commission when a demonstration will be attempted. When a demonstration is to be attempted, the notification shall include a work plan and schedule for completion of the demonstration which shall be approved by the Chief of the Surface Water Quality Division. The effluent limits contained on page 4 of 23 take effect January 1, 1988, unless this permit is modified by the Water Resources Commission.

PART I, Section A

3. Special Condition - Long-Term Water Quality Based Effluent Limits

a. This special condition establishes the mechanism for proceeding toward achievement of water quality based effluent limits which are presently neither achievable nor detectable but are needed to protect the receiving water. These limits shall be defined as long-term water quality based effluent limits (LTWQBEL) and are as follows:

SUBSTANCES	DATES IN EFFECT	CONCENTRATION LIMIT (30 DAY AVERAGE)
PCB	All Year	1.2×10^{-5} ug/l

The permittee shall develop and submit to the Chief of the Surface Water Quality Division a long-term compliance plan on or before January 1, 1987. The plan shall include: (1) a program and schedule to make reasonable progress toward achieving the above limitations; (2) a proposal to use bio-monitoring or other techniques to determine progress toward compliance; (3) Any other information necessary to provide the demonstration required by Rule 323.1057(2)(f) for a scheduled abatement permit. After review of the long-term compliance plan, this permit may be modified by the Water Resources Commission in accordance with Part II, Section D-4 to incorporate requirements for proceeding toward achievement of the LTWQBEL.

b. This permit does not authorize the discharge of these substances at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. In addition, the following requirements shall apply to outfall 001:

SUBSTANCES	DATES IN EFFECT	ANALYTICAL METHOD	MONITORING FREQUENCY
PCB	All Year	EPA Method 608	2 X Monthly

Beginning on January 1, 1987, the discharge of these substances at detectable levels is a specific violation of this permit. The reported detection level for the method specified shall not exceed:

0.1 ug/l for PCB

unless a higher level is appropriate because of sample matrix interference.

RWA

NATURAL RESOURCES COMMISSION
THOMAS J ANDERSON
MARLENE J FLUHARTY
GORDON E GUYER
KERRY KAMMER
ELLWOOD A MATTSON
O STEWART MYERS
RAYMOND POUPORE

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T MASON BUILDING
P O BOX 30028
LANSING MI 48909

DAVID F HALES Director

October 16, 1989

CERTIFIED MAIL

Ms. Ruth Tydeman, Clerk
City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007

Dear Ms. Tydeman:

SUBJECT: NPDES Permit No. MI0023299
Wastewater Treatment Plant

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Natural Resources and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2)
208 Agency - South Central Michigan Planning Council
Wastewater Treatment Facility Superintendent
Planning and Special Programs Section, SWQD
Mr. Fred Morley - Plainwell District (2)
Mr. Paul Blakeslee, Regional Supervisor, Region III
Compliance and Enforcement, SWQD
Data Entry, SWQD
Point Source Studies (Grand Rapids District Office)
Files

PERMIT NO. MI0023299

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the "Michigan Act"),

City of Kalamazoo
1415 N. Harrison Street
Kalamazoo, Michigan 49007

is authorized to discharge from a facility located at

1415 N. Harrison Street
Kalamazoo, Michigan 49007

designated as the Kalamazoo WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on January 1, 1990 . Any person who feels aggrieved by this permit may file a sworn petition with the Executive Secretary of the Michigan Water Resources Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1994. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission to the Permits Section of the Surface Water Quality Division no later than 180 days prior to the date of expiration.

This permit is based on an application submitted on March 6, 1989, and shall supersede any and all Orders of Determination, Stipulations, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission. This reissuance does not supersede or in any way effect Final Order of Abatement No. 2127.

Issued this 22nd day of September 1989, by the Michigan Water Resources Commission, superseding NPDES Permit No. MI0023299, expiring August 31, 1989.

Paul D. Zugger
Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations, Outfall 001

a. During the period beginning on permit effective date and lasting until permit expiration, the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

Effluent Characteristic	Dates In Effect	Discharge Limitations: Daily Minimum	Daily Maximum	30-Day Average	7-Day Average
Flow (in MGD)	All Year	--	--	--	--
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	5/1-9/30	--	10 mg/l	-- 3110 lb/day	-- 4450 lb/day
	10/1-10/31	--	15 mg/l	-- 4450 lb/day	-- 6670 lb/day
	11/1-11/30	--	27 mg/l	-- 8000 lb/day	-- 12000 lb/day
	12/1-4/30	--	--	25 mg/l 11100 lb/day	40 mg/l 17800 lb/day
Total Suspended Solids	5/1-9/30	--	--	20 mg/l 8890 lb/day	30 mg/l 13300 lb/day
	10/1-4/30	--	--	30 mg/l 13300 lb/day	45 mg/l 20000 lb/day
Ammonia Nitrogen (as N)	5/1-9/30	--	2 mg/l	--	889 lb/day
	10/1-10/31	--	6.5 mg/l	--	2900 lb/day
Total Phosphorus (as P)	All Year	--	--	1 mg/l 225 lb/day	--
Dissolved Oxygen	All Year	4.0 mg/l	--	--	--
Fecal Coliform Bacteria	All Year	--	--	200/100ml	400/100ml
Total Residual Chlorine	All Year	--	monitoring only	--	--
	All Year beginning 1/1/91	--	0.036 mg/l	--	--
pH (standard units)	All Year	6.0	9.0	--	--

PART I

Section A.1. (continued)

Effluent Characteristic	Discharge Limitations: Dates In Effect	Daily Minimum	Daily Maximum	30-Day Average	7-Day Average
Amenable Cyanide	All Year	--	--	6 ug/l	--
Total Lead	All Year	--	--	23 ug/l	--
Total Cadmium	All Year	--	--	1.5 ug/l	--
Total Silver	All Year	--	--	monitoring only	--
1,2-dichloroethane	All Year	--	--	monitoring only	--
Naphthalene	All Year	--	--	monitoring only	--
Copper	All Year	--	--	monitoring only	--
Total PCBs*	All Year	--	--	monitoring only	--
	All Year beginning 6/1/92	--	--	0.00002 ug/l	--
Total Mercury*	All Year	--	--	monitoring only	--
	All Year beginning 6/1/92	--	--	0.0011 ug/l	--

* The water quality based effluent limit for PCB and mercury are less than the level of detection using the specified analytical methods. The detection limit shall not exceed 0.2 ug/l for PCB and 0.5 ug/l for mercury, unless higher levels are appropriate because of sample matrix interference. If all samples in any monthly reporting period are less than the level of detection, that will be deemed to be compliance with the final effluent limitations for these pollutants for that reporting period, provided that the permittee is also in full compliance with the PCB and Mercury minimization programs set forth in I.A.2. This paragraph does not authorize the discharge of PCBs or mercury at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. (Total PCBs shall be defined as the sum of Aroclors 1242, 1254 and 1260.) The sampling procedures, preservation and handling, and analytical protocol for compliance monitoring for PCBs and mercury shall be in accordance with EPA Method 608 and EPA Method 245.1, respectively. Other methods may be used upon approval of the Chief of the Surface Water Quality Division.

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: 53.3 MGD

b. Sampling Frequency - The effluent characteristics shall be measured at the following frequency: Daily for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, pH, Dissolved Oxygen, Fecal Coliform Bacteria, Total Phosphorus and Total Residual Chlorine. The Amenable Cyanide sampling shall be two times weekly. The Total Lead and Cadmium sampling shall be weekly. The Total Silver, Copper, naphthalene and 1,2-dichloroethane sampling shall be once quarterly, in June, September, December and March. The PCBs and Mercury shall be measured twice monthly.

PART I

Section A.1. (continued)

c. Sample Type and Location

(1) The sampling for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, Total Phosphorus, Total Lead, Total Cadmium, Total Silver, 1,2 Dichloroethane, Copper, and Naphthalene shall be 24-hour composites taken prior to disinfection. The sampling for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be grab samples taken of the effluent. The Naphthalene monitoring shall be by EPA Method 625.

(2) Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one sample per day is taken, the additional samples shall be collected in near equal intervals over at least 8 hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

d. During the period that Fecal Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period. This requirement is in effect, only, for December 1 through April 30 of each calendar year.

f. Demonstration Opportunity Regarding Total Residual Chlorine

(1) Final Acute Value - The permittee may demonstrate to the Michigan Water Resources Commission that a total residual chlorine limitation greater than the final acute value of 0.036 mg/l is acceptable under the Water Quality Standards. Such demonstration may establish that: a) fish cannot physically inhabit the zone where concentrations of total residual chlorine are greater than 0.036 mg/l, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher final acute value, c) there is extremely high and immediate dilution, or d) other rationale warrants a less restrictive limitation for total residual chlorine.

(2) Compliance Deadline - The permittee may demonstrate to the Michigan Water Resources Commission that it is necessary and appropriate to postpone the effective date of the total residual chlorine limitation considering the present efficiency of disinfection, age of chlorination equipment and the economic and technical feasibility of compliance.

(3) Demonstration Notification - The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division if a demonstration under (1) or (2) above will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the total residual chlorine limitation shall not be stayed pending the demonstration project. All submittals shall be directed to the Plainwell District Supervisor of the Surface Water Quality Division.

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Section A.1.

g. Demonstration Opportunity Regarding Seasonal Fecal Coliform Bacteria Limitation

(1) Seasonal Limitation - The permittee may demonstrate to the Michigan Water Resources Commission that a seasonal Fecal Coliform limitation is acceptable under the Water Quality Standards.

(2) Demonstration Notification - The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division if a demonstration will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the Fecal Coliform Bacteria shall not be stayed pending the demonstration project. All submittals shall be directed to the Plainwell District Supervisor of the Surface Water Quality Division.

2. PCB and Mercury Minimization Program

This special condition establishes the program necessary for proceeding toward compliance with the final effluent limitations for PCB and mercury. The goal is to reduce all sources of PCB and mercury discharged into the sewer system to less than the level of detection as identified in Part I.A.1. The permittee shall establish and implement a Minimization Program in accordance with the following schedule:

On or before June 1, 1990, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division an approvable PCB and Mercury Minimization Program. The Minimization Program shall, as a minimum, include the following:

1) Identification of potential PCB and mercury sources.

2) A program for assessing the amounts of PCB and mercury in all potential sources.

3) A program for monitoring of influent and sludge for PCB and mercury.

4) A control strategy designed to proceed towards the goal of eliminating all detectable PCB and mercury discharges to the sewer system by June 1, 1992.

5) Appropriate control measures to be implemented when detectable discharges of PCB and mercury are discovered.

The Minimization Program shall be implemented upon approval by the Plainwell District Supervisor of the Surface Water Quality Division.

On or before October 1 of each year following approval of the PCB and Mercury Minimization Program, the permittee shall submit a Program Update to the Plainwell District Supervisor of the Surface Water Quality Division that includes (1) the monitoring results for the previous year, (2) an update list and assessments of inputs of potential PCB and mercury sources, and (3) a summary of actions taken to eliminate PCB and mercury discharges.

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Section A.

3. Special Condition - Notification Requirement

The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division, in writing, within 10 days when any activity or change has occurred or will occur which would result in the discharge of:

a. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

b. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

c. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application submitted on March 6, 1989.

4. Discharge to the Groundwaters

The reissuance of this permit does not authorize any discharge to the groundwaters. Such discharge must be authorized by a groundwater discharge permit issued pursuant to Act 245, Public Acts of 1929, as amended.

PART I

B. INDUSTRIAL WASTE CONTROL PROGRAM

1. The permittee shall implement the pretreatment program approved on October 11, 1985 and modifications approved on August 24, 1989, which are incorporated as enforceable requirements of this permit.

2. The permittee shall regulate pollutant discharges from nondomestic sources consistent with 40 CFR 403 and prohibit discharges that:

a. Cause, in whole or in part, the permittee's failure to comply with the effluent limitations required in Part I.A. of this permit;

b. Restrict, in whole or in part, the permittee's approved Program for Effective Residuals Management (PERM) required in Part I.C. of this permit;

c. Cause, in whole or in part, operational problems at the treatment facility or in its collection system;

d. Exceed local limits established in accordance with the approved pretreatment program; or

e. Exceed National Pretreatment Standards: Prohibited discharges, as identified in the Federal Pretreatment Regulations (40 CFR 403.5) and in regulations pursuant to Section 307(b) and (c) of the Act.

3. The Department of Natural Resources may require modifications in the approved pretreatment program which are necessary to maintain the above program capabilities.

4. The permittee shall not change or modify its approved pretreatment program without prior approval of the Plainwell District Supervisor of the Surface Water Quality Division.

5. The permittee shall develop and maintain for a minimum of three years all records and information resulting from monitoring and enforcement activities necessary to determine nondomestic user compliance with the pretreatment standards, local limits, and conditions of the approved program.

6. The permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division, beginning on July 31, 1986 and annually thereafter on March 31, a summary report on the status of program implementation and enforcement activities. The Annual Pretreatment Summary Report shall contain:

starting w 1990

(continued)

PART I

Section B.6. (continued)

a. A listing of nondomestic users whose discharge is regulated by the conditions of the approved pretreatment program, to include:

(1) Additions or deletions to the nondomestic user survey, including users with significantly increased discharges;

(2) Additions or deletions to the list of toxic chemicals that potentially could be discharged to the sewer;

(3) The names of users with permits or contracts for discharge;

(4) The names of users audited for compliance during the reporting period, and the status of compliance for each; and

(5) The names of users which were in significant violation of applicable pretreatment standards or other pretreatment requirements during the reporting period, and proof of publication pursuant to 40 CFR 403.8(f)(2)(vii).

b. A summary of the enforcement actions taken and status of compliance by nondomestic users to include:

(1) Names of nondomestic users not in compliance with categorical standards and/or local pretreatment discharge limitations, and

(2) Status of enforcement actions taken to return these facilities to compliance.

c. A summary of any changes proposed or made to the approved program including those resulting from an annual review of the adequacy of the approved pretreatment program with respect to the regulations at 40 CFR 403 and the ability to achieve the objectives stated in Paragraph 2 (above) currently and projected into the foreseeable future. The summary shall also include changes in legal authority, any procedures which were previously approved by the Department of Natural Resources (including those used to establish local limits), service areas, monitoring programs, staffing, or funding.

PART I

C. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT

In addition to the requirements in Part II.C.7. in this permit, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or ground waters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

(1) a management plan (treatment, transportation, storage, disposal, contingency plans);

(2) an inventory of residuals production, storage, and disposal for a period of at least one year;

(3) an analysis of the residuals;

(4) a monitoring program;

(5) if land application is proposed, include site maps, soil analyses, application rates, proposed vegetation and other pertinent information; and

(6) if groundwater degradation potential exists, include a hydrogeologic study.

A program has previously been submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division. The permittee shall certify that current and future residuals management practices are in accordance with the approved program or the permittee shall submit proposed modifications to the approved program. The program certification or proposed modifications shall be submitted to and receive the approval of the Plainwell District Supervisor of the Surface Water Quality Division on or before March 1, 1990.

Disposal of residuals resulting from the treatment of wastewater shall be in accordance with the previously approved program until proposed modifications are approved. If at any time the permittee desires to make any substantial changes in the approved program, the proposed changes shall be submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division prior to implementation. Substantial changes shall include, but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART I

Section D.

1. Reapplication

If the discharges authorized by this permit are expected to continue beyond the expiration date of this permit, the permittee is required to submit an application for reissuance to the Chief of the Permits Section of the Surface Water Quality Division on or before April 1, 1994.

2. Written Report Required

Within 14 days of every submittal requirement date specified in Part I.D. in this permit, the permittee shall submit a written report to the Plainwell District Supervisor of the Surface Water Quality Division stating whether or not the particular task was accomplished. If the task was not accomplished, the report shall also include: an explanation of the failure to accomplish the task, actions taken by the permittee to correct the situation, and an estimate of when the task will be accomplished.

If the task requires submission of a written report and the task was accomplished, a separate written report is not required.

3. Industrial Pretreatment Program Modification Required

The permittee shall develop and submit written procedures which adequately:

a. specify a frequency or schedule for the permittee to sample and inspect industrial users as required by 40 CFR 403.8(F)(2)(v);

b. notify industrial users of applicable pretreatment standards, including categorical standards, and applicable requirements established under the Resource Conservation and Recovery Act (RCRA) Subtitles C and D as required by 40 CFR 403.8(f)(2)(iii).

These procedures shall be submitted as an Industrial Pretreatment Program modification to the Plainwell District Supervisor on or before July 1, 1990.

PART II

A. REPORTING, DEFINITIONS, AND MONITORING

1. Reporting

The permittee shall effectively monitor the operation of all processes comprising the treatment and control facilities. Monitoring data required by this permit and other data required by the Surface Water Quality Division shall be tabulated and summarized on a calendar month basis. Discharge Monitoring Reports, on forms supplied by the Surface Water Quality Division, shall be mailed to the address below, postmarked no later than the tenth (10th) of the first month following the report period.

Department of Natural Resources
SWQD - Data Entry
P.O. Box 30028
Lansing, Michigan 48909

2. Definitions

a. 30-Day Average Concentration

The 30-day average concentration is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during a calendar month. If the pollutant concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average concentration. The 30-day average concentration for fecal coliform bacteria is defined as the geometric mean of the samples collected in a calendar month.

b. 7-Day Average Concentration

The 7-day average concentration is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive day period of a calendar month. The exception to this is the 7-day average concentration for fecal coliform bacteria. This is defined as the geometric mean of the samples collected in any 7 consecutive day period of a calendar month.

c. 30-Day Average Load

The 30-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during a calendar month.

d. 7-Day Average Load

The 7-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during any 7 consecutive days in a calendar month.

e. Maximum Concentration

The maximum concentration is defined as the maximum concentration of a pollutant in any individual sample.

f. Maximum Load

The maximum load is defined as the maximum weight of a pollutant discharged in any single day.

PART II

Section A.2. (continued)

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Nondomestic User

A nondomestic user is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A major user is defined as a nondomestic user that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works; or

(2) discharges any toxic or hazardous materials such as, but not limited to, those listed on the Federal EPA List of Priority Pollutants and Michigan Critical Materials Register (for a copy of either list, contact the Surface Water Quality Division); or Defn #'s/DAY

(3) discharges any substance that may cause interference with the operation of the treatment works, and is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as a Discharge which alone or in conjunction with a discharge or discharges from other sources, both:

(1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal and

(2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act (SWDA)(including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substance Control Act, and the Marine Protection, Research and Sanctuaries Act.

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Section A.2

1. National Pretreatment Standards

National Pretreatment Standards are defined as the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Act. The standards establish nationwide limits for specific industrial categories for discharge to Publicly Owned Treatment Works.

m. Pretreatment

Pretreatment is defined as reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

n. Water Quality Standards

The Water Quality Standards are defined as Part 4 of the General Rules of the Michigan Water Resources Commission promulgated by authority of Sections 2 and 5 of the Michigan Act.

3. Monitoring

a. The analytical test procedures used shall conform to the rules and regulations promulgated under Section 304(h) of the "Act" (Title 40, Chapter 1, Subchapter D., Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Surface Water Quality Division on request. For parameters not covered by the regulations, test procedures shall be submitted for approval to the Chief of the Permits Section of the Surface Water Quality Division.

b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

c. Fecal Coliform Bacteria analyses, at facilities using chlorine for disinfection, shall be performed on "grab" samples collected at varying times during an operating day. Information derived therefrom shall be correlated with chlorine residual levels, flow rate, and loading variations for the purpose of minimizing chlorine use, while maintaining compliance with the effluent limitations.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. the exact place, date, and time of sampling;

b. the dates the analyses were performed;

c. the person(s) who performed the analyses;

d. the analytical techniques or methods used; and

e. the results of all required analyses.

PART II

Section A

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified above, the results shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, U.S. Environmental Protection Agency-Region V, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the Plainwell District Supervisor of the Surface Water Quality Division.

C. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized, shall constitute a violation of the permit. Any anticipated significant loading increase, facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application to the Chief of the Permits Section of the Surface Water Quality Division or, if such changes will not violate the effluent limitations specified in

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Section C.1

this permit, by notice to the Plainwell District Supervisor of the Surface Water Quality Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials. These facilities shall be approved under Act 98, Public Acts of 1913, as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911-R 299.2927).

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Plainwell District Supervisor of the Surface Water Quality Division and the Regional Administrator with the following information, in writing, at the time of submittal of the monthly operating data:

a. a description of the circumstances and cause of noncompliance; and

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is qualified to carry out the operation, maintenance and testing functions required to ensure compliance with this permit.

c. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These by-passes are not subject to provisions of C.8, By-pass or Accidential Losses.

d. The permittee shall prohibit the introduction of the following wastes into the waste treatment system:

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Section C.5

(1) Wastes which create or can create a fire or explosion hazard - defined as being greater than 20% of the lower explosive limit (LEL) for the substance;

(2) Wastes which create or cause corrosive structural damage;

(3) Wastes with a pH lower than 5.0;

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works;

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works; or

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40°C (104°F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncompliance.

7. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

8. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, personal injury, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report submitted within five (5) days to the Plainwell District Supervisor of the Surface Water Quality Division, detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

9. Power Failures

In order to maintain compliance with the effluent limitations and prevent unauthorized discharges, the permittee shall:

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Section C.9

a. Provide alternative power or equipment sufficient to operate essential facilities utilized by the permittee to comply with this permit in accordance with Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability published by the Federal Environmental Protection Agency (EPA - 430-99-74-001), or

b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with this permit, the permittee shall halt, reduce or otherwise control all discharges in order to maintain compliance with the effluent limitations and conditions of this permit.

D. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring equipment or monitoring method required in this permit and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter. A copy of this letter shall be forwarded to the Plainwell District Supervisor of the Surface Water Quality Division and the Regional Administrator 30 days prior to the actual transfer of ownership or control.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Surface Water Quality Division and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

PART II

Section D.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. violation of any terms or conditions of this permit;

b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. the establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II.C.8.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Upset Noncompliance Notification

If a process "upset" (defined in 40 CFR 122.41 n(1)) has occurred, the permittee who wishes to establish the affirmative defense of upset as set forth in 40 CFR 122.41n shall notify the Chief of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions and within five (5) days provide in writing, the demonstration specified in 40 CFR 122.41n(3).

NPDES Permit

MISSION

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T MASON BUILDING
P O BOX 30028
LANSING MI 48909

DAVID F HALES Director

April 26, 1991

CERTIFIED MAIL

Ms. Ruth Tydeman, Clerk
City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007-4796

Dear Ms. Tydeman:

SUBJECT: NPDES Permit No. MI0023299
Wastewater Treatment Plant

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Natural Resources and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2)
208 Agency - South Central Michigan Planning Council
Wastewater Treatment Facility Superintendent
Planning and Special Programs Section, SWQD
Mr. Fred Morley - Plainwell District, SWQD (2)
Mr. Paul Blakeslee, Regional Supervisor, Region III, SWQD
Compliance and Enforcement, SWQD
Data Entry, SWQD
Point Source Studies (Grand Rapids District Office), SWQD
Files

PERMIT NO. MI0023299

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the "Michigan Act"),

City of Kalamazoo
1415 N. Harrison Street
Kalamazoo, Michigan 49007

is authorized to discharge from a facility located at

1415 N. Harrison
Kalamazoo, Michigan 49007

designated as the Kalamazoo WWTP
to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Executive Secretary of the Michigan Water Resources Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. If a contested condition is a requirement placed on wastewater covered by a new or increased discharge authorization, such increased discharge authorization shall be stayed until the Commission takes final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1995. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission to the Permits Section of the Surface Water Quality Division no later than 180 days prior to the date of expiration.

This permit is based on an application submitted on March 6, 1989. On its effective date this permit shall supersede NPDES Permit No. 0023299 expiring on October 1, 1994, which is hereby revoked. This reissuance does not supersede or in any way effect Final Order of Abatement No. 2127.

Issued this 28th day of March, 1991, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations, Outfall 001

a. During the period beginning on permit effective date and lasting until permit expiration, the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

Effluent Characteristic	Discharge Limitations				
	Dates In Effect	Daily Minimum	Daily Maximum	30-Day Average	7-Day Average
Flow (in MGD)	All Year	--	--	--	--
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	5/1-9/30	--	10 mg/l	-- 3110 lb/day	-- 4450 lb/day
	10/1-10/31	--	15 mg/l	-- 4450 lb/day	-- 6670 lb/day
	11/1-11/30	--	27 mg/l	-- 8000 lb/day	-- 12000 lb/day
	12/1-4/30	--	--	25 mg/l 11100 lb/day	40 mg/l 17800 lb/day
Total Suspended Solids	5/1-9/30	--	--	20 mg/l 8890 lb/day	30 mg/l 13300 lb/day
	10/1-4/30	--	--	30 mg/l 13300 lb/day	45 mg/l 20000 lb/day
Ammonia Nitrogen (as N)	5/1-9/30	--	2 mg/l	--	889 lb/day
	10/1-10/31	--	6.5 mg/l	--	2900 lb/day
Total Phosphorus (as P)	All Year	--	--	1 mg/l 225 lb/day	--
Dissolved Oxygen	All Year	4.0 mg/l	--	--	--
Fecal Coliform Bacteria	All Year	--	--	200/100ml	400/100ml
Total Residual Chlorine	All Year	--	monitoring only	--	--
	All Year beginning 5/1/91	--	0.036 mg/l	--	--
pH (standard units)	All Year	6.0	9.0	--	--

PART I

Section A.1. (continued)

Effluent Characteristic	Dates In Effect	Discharge Limitations Daily Minimum	Daily Maximum	30-Day Average	7-Day Average
Amenable Cyanide	All Year	--	--	7 ug/l	--
Total Lead	All Year	--	--	monitoring only	--
Total Cadmium	All Year	--	--	1.6 ug/l	--
Total Silver	All Year	--	--	monitoring only	--
1,2-dichloroethane	All Year	--	--	monitoring only	--
Naphthalene	All Year	--	--	monitoring only	--
Copper	All Year	--	--	48 ug/l	--
Total Zinc	All Year	--	--	monitoring only	--
Total PCBs*	All Year	--	--	monitoring only	--
	All Year beginning 6/1/92	--	--	0.00002 ug/l	--
Total Mercury*	All Year	--	--	monitoring only	--
	All Year beginning 6/1/92	--	--	0.0011 ug/l	--

* The water quality based effluent limit for PCB and mercury are less than the level of detection using the specified analytical methods. The detection limit shall not exceed 0.2 ug/l for PCB and 0.5 ug/l for mercury, unless higher levels are appropriate because of sample matrix interference. If all samples in any monthly reporting period are less than the level of detection, the Water Resources Commission will consider the permittee to be in compliance with the final effluent limitations for these pollutants for that reporting period, provided that the permittee is also in full compliance with the PCB and Mercury minimization programs set forth in I.A.2. This paragraph does not authorize the discharge of PCBs or mercury at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. (Total PCBs shall be defined as the sum of Aroclors 1242, 1254 and 1260.) The sampling procedures, preservation and handling, and analytical protocol for compliance monitoring for PCBs and mercury shall be in accordance with EPA Method 608 and EPA Method 245.1, respectively. Other methods may be used upon approval of the Chief of the Surface Water Quality Division.

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: 53.3 MGD.

b. Sampling Frequency - The effluent characteristics shall be measured at the following frequency: Daily for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, pH, Dissolved Oxygen, Fecal Coliform Bacteria, Total Phosphorus and Total Residual Chlorine. The Amenable Cyanide sampling shall be two times weekly. The Total Cadmium and Copper sampling shall be weekly. The Total Silver, Lead, Zinc, naphthalene

PART I

Section A.1. (continued)

and 1,2-dichloroethane sampling shall be once quarterly, in June, September, December and March. The PCBs and Mercury shall be measured twice monthly.

c. Sample Type and Location

Mercury PCBs are left out

(1) The sampling for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, Total Phosphorus, Total Lead, Total Cadmium, Total Silver, 1,2 Dichloroethane, Copper, Zinc and Naphthalene shall be 24-hour composites taken prior to disinfection. The sampling for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be grab samples taken of the effluent. The Naphthalene monitoring shall be by EPA Method 625.

(2) Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one sample per day is taken, the additional samples shall be collected in near equal intervals over at least 8 hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

d. During the period that Fecal Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period. This requirement is in effect, only, for December 1 through April 30 of each calendar year.

f. Demonstration Opportunity Regarding Total Residual Chlorine

(1) Final Acute Value - The permittee may demonstrate to the Michigan Water Resources Commission that a total residual chlorine limitation greater than the final acute value of 0.036 mg/l is acceptable under the Water Quality Standards. Such demonstration may establish that: a) fish cannot physically inhabit the zone where concentrations of total residual chlorine are greater than 0.036 mg/l, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher final acute value, c) there is extremely high and immediate dilution, or d) other rationale warrants a less restrictive limitation for total residual chlorine.

(2) Compliance Deadline - The permittee may demonstrate to the Michigan Water Resources Commission that it is necessary and appropriate to postpone the effective date of the total residual chlorine limitation considering the present efficiency of disinfection, age of chlorination equipment and the economic and technical feasibility of compliance.

(3) Demonstration Notification - The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division if a demonstration under (1) or (2) above will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the total residual chlorine limitation shall not be stayed pending the demonstration project. All submittals shall be directed to the Plainwell District Supervisor of the Surface Water Quality Division.

PART I

Section A.1.

g. Demonstration Opportunity Regarding Seasonal Fecal Coliform Bacteria Limitation

(1) Seasonal Limitation - The permittee may demonstrate to the Michigan Water Resources Commission that a seasonal Fecal Coliform limitation is acceptable under the Water Quality Standards.

(2) Demonstration Notification - The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division if a demonstration will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the Fecal Coliform Bacteria shall not be stayed pending the demonstration project. All submittals shall be directed to the Plainwell District Supervisor of the Surface Water Quality Division.

2. Special Condition - $CBOD_5$, Ammonia and Phosphorus

The permittee may demonstrate to the Michigan Water Resources Commission that higher discharge limitations in Part I A.1.a. for Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, or Total Phosphorus would be acceptable under the Water Quality Standards. Such demonstration shall be submitted to the Plainwell District supervisor of the Surface Water Quality Division. If the permittee is successful in the demonstration, this permit may be modified accordingly. Such demonstration would constitute new information pursuant to 40 CFR 122.62(a)(2) and Section 402 (o)(2)(B)(i) of the Act, which was not available to the Water Resources Commission at the time the permit was issued.

3. PCB and Mercury Minimization Program

This special condition establishes the program necessary for proceeding toward compliance with the final effluent limitations for PCB and mercury. The goal is to reduce all sources of PCB and mercury discharged into the sewer system to less than the level of detection as identified in Part I.A.1. The permittee shall establish and implement a Minimization Program in accordance with the following schedule:

On or before June 1, 1990, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division an approvable PCB and Mercury Minimization Program. The Minimization Program shall, as a minimum, include the following:

1) Identification of potential PCB and mercury sources;

2) A program for assessing the amounts of PCB and mercury in all potential sources.

3) A program for monitoring of influent and sludge for PCB and mercury.

4) A control strategy to achieve the elimination, where practicable, of all detectable PCB and mercury discharges to the sewer system by June 1, 1992.

5) Appropriate control measures to be implemented when detectable discharges of PCB and mercury are discovered.

The Minimization Program shall be implemented upon approval by the Plainwell District Supervisor of the Surface Water Quality Division.

PART I

Section A.3.

On or before October 1 of each year following approval of the PCB and Mercury Minimization Program, the permittee shall submit a Program Update to the Plainwell District Supervisor of the Surface Water Quality Division that includes (1) the monitoring results for the previous year, (2) an update list and assessments of inputs of potential PCB and mercury sources, and (3) a summary of actions taken to eliminate PCB and mercury discharges.

4. Special Condition - Notification Requirement

The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of:

a. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

b. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

c. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application submitted on March 6, 1989.

5. Discharge to the Groundwaters

The reissuance of this permit does not authorize any discharge to the groundwaters. Such discharge must be authorized by a groundwater discharge permit issued pursuant to Act 245, Public Acts of 1929, as amended.

6. Special Condition

a. Secondary Treatment Plant Mass Balance Study

1. On or before June 1, 1990, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division for approval a plan to study the mass balance of metals in the Kalamazoo Wastewater Treatment Plant secondary treatment process. The plan shall address Cadmium, Silver, Copper, Chromium, Nickel, Lead and Zinc unless the permittee demonstrates that fewer metals will be representative.

2. On or before June 1, 1992, the permittee shall submit the results of the Secondary Mass Balance Study to the Plainwell District Supevisor of the Surface Water Quality Division.

PART I

Section A.6. (continued)

b. Metals Removal Rates Study Plan

On or before January 1, 1992, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division a plan to determine removal rates for Cadmium, Silver, Chromium, Copper, Nickel, Lead and Zinc.

c. Organic Removal Rates Study

1. On or before January 1, 1991, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division for approval a plan to determine removal rates for the organic compounds listed below:

Naphthalene	Methylene Chloride
1,2 Dichloropropane	Tetrahydrofuran
Chloroform	Toluene
1,2-dichloroethane	Trichloroethylene
Dichlorobromomethane	Methyl t-Butyl Ether
Ethyl Ether	

2. On or before January 1, 1992, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division the results of the Organic Removal Rate Study.

7. Temporary De-chlorination Facility

There shall be a temporary de-chlorination facility in operation from January 1, 1991 through April 30, 1991 for all discharges from the wastewater treatment plant. The temporary facility shall de-chlorinate to a level as close as possible to the 0.036 mg/l limit for total residual chlorine. The operation of the de-chlorination facility shall not cause violation of any parts of this permit. The operation and installation of this facility shall not cause any unnecessary risk to the general public or treatment plant staff.

PART I

B. INDUSTRIAL WASTE CONTROL PROGRAM

1. The permittee shall implement the pretreatment program approved on October 11, 1985 and modifications approved on August 24, 1989, and modifications approved on January 24, 1991 which are incorporated as enforceable requirements of this permit.

2. The permittee shall regulate pollutant discharges from nondomestic sources consistent with 40 CFR 403 and prohibit discharges that:

a. Cause, in whole or in part, the permittee's failure to comply with the effluent limitations required in Part I.A. of this permit;

b. Restrict, in whole or in part, the permittee's approved Program for Effective Residuals Management (PERM) required in Part I.C. of this permit;

c. Cause, in whole or in part, operational problems at the treatment facility or in its collection system;

d. Exceed local limits established in accordance with the approved pretreatment program; or

e. Exceed National Pretreatment Standards: Prohibited discharges, as identified in the Federal Pretreatment Regulations (40 CFR 403.5) and in regulations pursuant to Section 307(b) and (c) of the Act.

3. The Department of Natural Resources may require modifications in the approved pretreatment program which are necessary to maintain the above program capabilities.

4. The permittee shall not change or modify its approved pretreatment program without prior approval of the Plainwell District Supervisor of the Surface Water Quality Division.

5. The permittee shall develop and maintain for a minimum of three years all records and information resulting from monitoring and enforcement activities necessary to determine nondomestic user compliance with the pretreatment standards, local limits, and conditions of the approved program.

6. The permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division, beginning on July 31, 1986 and annually thereafter on March 31, a summary report on the status of program implementation and enforcement activities. The Annual Pretreatment Summary Report shall contain:

(continued)

PART I

Section B.6. (continued)

a. A listing of nondomestic users whose discharge is regulated by the conditions of the approved pretreatment program, to include:

(1) Additions or deletions to the nondomestic user survey, including users with significantly increased discharges;

(2) Additions or deletions to the list of toxic chemicals that potentially could be discharged to the sewer;

(3) The names of users with permits or contracts for discharge;

(4) The names of users audited for compliance during the reporting period, and the status of compliance for each; and

(5) The names of users which were in significant violation of applicable pretreatment standards or other pretreatment requirements during the reporting period, and proof of publication pursuant to 40 CFR 403.8(f)(2)(vii).

b. A summary of the enforcement actions taken and status of compliance by nondomestic users to include:

(1) Names of nondomestic users not in compliance with categorical standards and/or local pretreatment discharge limitations, and

(2) Status of enforcement actions taken to return these facilities to compliance.

c. A summary of any changes proposed or made to the approved program including those resulting from an annual review of the adequacy of the approved pretreatment program with respect to the regulations at 40 CFR 403 and the ability to achieve the objectives stated in Paragraph 2 (above) currently and projected into the foreseeable future. The summary shall also include changes in legal authority, any procedures which were previously approved by the Department of Natural Resources (including those used to establish local limits), service areas, monitoring programs, staffing, or funding.

PART I

C. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT

In addition to the requirements in Part II.C.7. in this permit, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or ground waters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

(1) a management plan (treatment, transportation, storage, disposal, contingency plans);

(2) an inventory of residuals production, storage, and disposal for a period of at least one year;

(3) an analysis of the residuals;

(4) a monitoring program;

(5) if land application is proposed, include site maps, soil analyses, application rates, proposed vegetation and other pertinent information; and

(6) if groundwater degradation potential exists, include a hydrogeologic study.

A program has previously been submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division. The permittee shall certify that current and future residuals management practices are in accordance with the approved program or the permittee shall submit proposed modifications to the approved program. The program certification or proposed modifications shall be submitted to and receive the approval of the Plainwell District Supervisor of the Surface Water Quality Division on or before March 1, 1990.

Disposal of residuals resulting from the treatment of wastewater shall be in accordance with the previously approved program until proposed modifications are approved. If at any time the permittee desires to make any substantial changes in the approved program, the proposed changes shall be submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division prior to implementation. Substantial changes shall include, but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART I

Section D.

1. Reapplication

If the discharges authorized by this permit are expected to continue beyond the expiration date of this permit, the permittee is required to submit an application for reissuance to the Chief of the Permits Section of the Surface Water Quality Division on or before April 1, 1995.

2. Written Report Required

Within 14 days of every submittal requirement date specified in Part I.D. in this permit, the permittee shall submit a written report to the Plainwell District Supervisor of the Surface Water Quality Division stating whether or not the particular task was accomplished. If the task was not accomplished, the report shall also include: an explanation of the failure to accomplish the task, actions taken by the permittee to correct the situation, and an estimate of when the task will be accomplished.

If the task requires submission of a written report and the task was accomplished, a separate written report is not required.

3. Industrial Pretreatment Program Modification Required

The permittee shall develop and submit written procedures which adequately:

a. specify a frequency or schedule for the permittee to sample and inspect industrial users as required by 40 CFR 403.8(F)(2)(v);

b. notify industrial users of applicable pretreatment standards, including categorical standards, and applicable requirements established under the Resource Conservation and Recovery Act (RCRA) Subtitles C and D as required by 40 CFR 403.8(f)(2)(iii).

These procedures shall be submitted as an Industrial Pretreatment Program modification to the Plainwell District Supervisor on or before July 1, 1990.

4. The permittee shall adequately characterize the effluent from outfall 001 with respect to bis (tributyltin) oxide (TBTO) in accordance with the schedule listed below. All submittals shall be to the Plainwell District Supervisor of the Surface Water Quality Division.

a. On or before January 1, 1993, the permittee shall submit a study plan which includes sample location, analytical test procedure, sampling procedures and proposal for interpretation of results.

b. On or before June 1, 1993 , the permittee shall implement the study.

c. On or before September 1, 1993, the permittee shall have completed all monitoring as required.

d. On or before December 1, 1993, the permittee shall submit the analytical results of such monitoring and interpretation.

PART II

A. REPORTING, DEFINITIONS, AND MONITORING

1. Reporting

The permittee shall effectively monitor the operation of all processes comprising the treatment and control facilities. Monitoring data required by this permit and other data required by the Surface Water Quality Division shall be tabulated and summarized on a calendar month basis. Discharge Monitoring Reports, on forms supplied by the Surface Water Quality Division, shall be mailed to the address below, postmarked no later than the tenth (10th) of the first month following the report period.

Department of Natural Resources
SWQD - Data Entry
P.O. Box 30028
Lansing, Michigan 48909

2. Definitions

a. 30-Day Average Concentration

The 30-day average concentration is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during a calendar month. If the pollutant concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average concentration. The 30-day average concentration for fecal coliform bacteria is defined as the geometric mean of the samples collected in a calendar month.

b. 7-Day Average Concentration

The 7-day average concentration is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive day period of a calendar month. The exception to this is the 7-day average concentration for fecal coliform bacteria. This is defined as the geometric mean of the samples collected in any 7 consecutive day period of a calendar month.

c. 30-Day Average Load

The 30-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during a calendar month.

d. 7-Day Average Load

The 7-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during any 7 consecutive days in a calendar month.

e. Maximum Concentration

The maximum concentration is defined as the maximum concentration of a pollutant in any individual sample.

f. Maximum Load

The maximum load is defined as the maximum weight of a pollutant discharged in any single day.

PART II

Section A.2. (continued)

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Nondomestic User

A nondomestic user is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A major user is defined as a nondomestic user that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works; or

(2) discharges any toxic or hazardous materials such as, but not limited to, those listed on the Federal EPA List of Priority Pollutants and Michigan Critical Materials Register (for a copy of either list, contact the Surface Water Quality Division); or

(3) discharges any substance that may cause interference with the operation of the treatment works, and is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as a Discharge which alone or in conjunction with a discharge or discharges from other sources, both:

(1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal and

(2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act (SWDA)(including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substance Control Act, and the Marine Protection, Research and Sanctuaries Act.

PART II

Section A.2

1. National Pretreatment Standards

National Pretreatment Standards are defined as the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Act. The standards establish nationwide limits for specific industrial categories for discharge to Publicly Owned Treatment Works.

m. Pretreatment

Pretreatment is defined as reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

n. Water Quality Standards

The Water Quality Standards are defined as Part 4 of the General Rules of the Michigan Water Resources Commission promulgated by authority of Sections 2 and 5 of the Michigan Act.

3. Monitoring

a. The analytical test procedures used shall conform to the rules and regulations promulgated under Section 304(h) of the "Act" (Title 40, Chapter 1, Subchapter D., Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Surface Water Quality Division on request. For parameters not covered by the regulations, test procedures shall be submitted for approval to the Chief of the Permits Section of the Surface Water Quality Division.

b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

c. Fecal Coliform Bacteria analyses, at facilities using chlorine for disinfection, shall be performed on "grab" samples collected at varying times during an operating day. Information derived therefrom shall be correlated with chlorine residual levels, flow rate, and loading variations for the purpose of minimizing chlorine use, while maintaining compliance with the effluent limitations.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. the exact place, date, and time of sampling;

b. the dates the analyses were performed;

c. the person(s) who performed the analyses;

d. the analytical techniques or methods used; and

e. the results of all required analyses.

PART II

Section A

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified above, the results shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, U.S. Environmental Protection Agency-Region V, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the Plainwell District Supervisor of the Surface Water Quality Division.

C. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized, shall constitute a violation of the permit. Any anticipated significant loading increase, facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application to the Chief of the Permits Section of the Surface Water Quality Division or, if such changes will not violate the effluent limitations specified in

this permit, by notice to the Plainwell District Supervisor of the Surface Water Quality Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials. These facilities shall be approved under Act 98, Public Acts of 1913, as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911-R 299.2927).

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Plainwell District Supervisor of the Surface Water Quality Division and the Regional Administrator with the following information, in writing, at the time of submittal of the monthly operating data:

a. a description of the circumstances and cause of noncompliance; and

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is qualified to carry out the operation, maintenance and testing functions required to ensure compliance with this permit.

c. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These by-passes are not subject to provisions of C.8, By-pass or Accidential Losses.

d. The permittee shall prohibit the introduction of the following wastes into the waste treatment system:

PART II

Section C.5

(1) Wastes which create or can create a fire or explosion hazard - defined as being greater than 20% of the lower explosive limit (LEL) for the substance;

(2) Wastes which create or cause corrosive structural damage;

(3) Wastes with a pH lower than 5.0;

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works;

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works; or

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40°C (104°F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncompliance.

7. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

8. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, personal injury, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report submitted within five (5) days to the Plainwell District Supervisor of the Surface Water Quality Division, detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

9. Power Failures

In order to maintain compliance with the effluent limitations and prevent unauthorized discharges, the permittee shall:

PART II

Section C.9

a. Provide alternative power or equipment sufficient to operate essential facilities utilized by the permittee to comply with this permit in accordance with Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability published by the Federal Environmental Protection Agency (EPA - 430-99-74-001), or

b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with this permit, the permittee shall halt, reduce or otherwise control all discharges in order to maintain compliance with the effluent limitations and conditions of this permit.

D. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring equipment or monitoring method required in this permit and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter. A copy of this letter shall be forwarded to the Plainwell District Supervisor of the Surface Water Quality Division and the Regional Administrator 30 days prior to the actual transfer of ownership or control.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Surface Water Quality Division and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

PART II

Section D.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. violation of any terms or conditions of this permit;

b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. the establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II.C.8.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Upset Noncompliance Notification

If a process "upset" (defined in 40 CFR 122.41 n(1)) has occurred, the permittee who wishes to establish the affirmative defense of upset as set forth in 40 CFR 122.41n shall notify the Chief of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions and within five (5) days provide in writing, the demonstration specified in 40 CFR 122.41n(3).

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

RUSSELL J. HARDING, Director

REPLY TO:

SURFACE WATER QUALITY DIVISION
KNAPPS CENTRE
PO BOX 30273
LANSING MI 48909-7773

[redacted]

CERTIFIED MAIL -- P 419 692 675

Ms. Nancy Collins, Clerk
City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007-4796

Dear Ms. Collins:

SUBJECT: NPDES Permit No. MI0023299 -- Kalamazoo WWTP, 1415 North Harrison Street, Kalamazoo

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Environmental Quality and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Mr. Fred Morley, District Supervisor
Plainwell District Office, SWQD, DEQ
621 North 10th Street
P. O. Box 355
Plainwell, Michigan 49080
Telephone: 616-685-9886

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit
cc: EPA-Region 5
208 Agency - South Central Michigan Planning Council
Wastewater Treatment Facility Superintendent
Mr. Fred Morley, Plainwell District Supervisor, SWQD (2) (Supersedes Storm Water COC MIR90P001)
Data Entry, SWQD (Supersedes Storm Water COC MIR90P001)
Point Source Studies (Grand Rapids District Office), SWQD
Industrial Pretreatment Program Unit, SWQD
Files

EQP 0100-15e
(10/95)

PERMIT NO. MI0023299

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18,

City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007-4796

is authorized to discharge from a facility located at

1415 North Harrison Street
Kalamazoo, Michigan 49007-2565

designated as Kalamazoo WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on January 1, 1997. Any person who is aggrieved by this permit may file a sworn petition with the Office of Administrative Hearings of the Michigan Department of Environmental Quality, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Department may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case, the Department shall review the permit to determine which contested conditions shall be stayed until the Department takes its final action. If a condition contested by the applicant is a requirement placed on wastewater covered by a new or increased discharge authorization, such increased discharge authorization shall be stayed until the Department takes final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Department determines the contested condition shall be stayed, then such previous condition remains in effect until the Department takes final action.

This permit and the authorization to discharge shall expire at midnight, October 1, 2000. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit an application which contains such information and forms as are required by the Michigan Department of Environmental Quality to the Plainwell District Supervisor of the Surface Water Quality Division by April 1, 2000.

This permit is based on a complete application submitted on April 3, 1995. The provisions of this permit are severable. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term in accordance with applicable laws and rules. On its effective date this permit shall supersede NPDES Permit No. MI0023299, expiring October 1, 1995, and Certificate of Coverage No. MIR90P001, issued November 10, 1994, which is revoked when superseded by this permit.

Issued September 27, 1996.

William E. McCracken
Chief, Permits Section
Surface Water Quality Division

PART I

Section A. Effluent Limitations and Monitoring Requirements

1. Final Effluent Limitations, Outfall 001

a. Discharge Authorization and Limitations

During the period beginning effective date of permit and lasting until permit expiration date, the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

	Quantity or Loading				Quality or Concentration					
Parameter	Monthly Average	7-Day Average	Daily Maximum	Units	Monthly Average	7-Day Average	Daily Maximum	Units	Frequency of Analysis	Sample Type
Flow	(report)	—	(report)	MGD	—	—	—	—	Daily	Report Total Daily Flow
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)										
5/1-9/30	3110	4462	—	lbs/day	—	—	10	mg/l	Daily	24-Hr Compos
10/1-10/31	4450	6693	—	lbs/day	—	—	15	mg/l	Daily	24-Hr Compos
11/1-11/30	8000	12047	—	lbs/day	—	—	27	mg/l	Daily	24-Hr Compos
12/1-4/30	11154	17843	—	lbs/day	25	40	—	mg/l	Daily	24-Hr Compos
Total Suspended Solids										
5/1-9/30	8923	13385	—	lbs/day	20	30	—	mg/l	Daily	24-Hr Compos
10/1-4/30	13385	20078	—	lbs/day	30	45	—	mg/l	Daily	24-Hr Compos
Ammonia Nitrogen (as N)										
5/1-9/30	—	892	—	lbs/day	—	—	2	mg/l	Daily	24-Hr Compos
10/1-10/31	—	2900	—	lbs/day	—	—	6.5	mg/l	Daily	24-Hr Compos
Total Phosphorus (as P)	225	—	—	lbs/day	1.0	—	—	mg/l	Daily	24-Hr Compos
Fecal Coliform Bacteria	—	—	—	—	200	400	—	cts/100 ml	Daily	Grab
Total Residual Chlorine	—	—	—	—	—	—	0.036	mg/l	Daily	Grab
					Daily Minimum		Daily Maximum			
pH	—	—	—	—	6.0	—	9.0	S.U.	Daily	Grab
Dissolved Oxygen	—	—	—	—	4.0	—	—	mg/l	Daily	Grab

(continued)

PART I

Section A. Effluent Limitations and Monitoring Requirements

Parameter	Quantity or Loading: Monthly Average	Quantity or Loading: 7-Day Average	Quantity or Loading: Daily Maximum	Quantity or Loading: Units	Quality or Concentration: Monthly Average	Quality or Concentration: 7-Day Average	Quality or Concentration: Daily Maximum	Quality or Concentration: Units	Frequency of Analysis	Sample Type
Total Mercury	—	---	---	---	0.0013 (1)	---	---	ug/l	Weekly	24-Hr Compos
Total Cadmium	0.7	—	---	---	1.6	---	---	ug/l	Weekly	24-Hr Compos
Cyanide Amenable	4.1	—	---	lbs/day	7	---	89	ug/l	Weekly	24-Hr Compos
Total Copper	21	---	---	lbs/day	48	---	144	ug/l	Weekly	24-Hr Compos
PCB	—	—	---	---	0.00002 (1)	---	---	ug/l	Weekly	24-Hr Compos
N,N-dimethyl-formamide	—	---	---	---	(report)	---	---	ug/l	Weekly	24-Hr Compos
All Year Beginning (1/1/98)	3000	---	---	lbs/day	6800	---	---	ug/l	Weekly	24-Hr Compos
Chronic Toxicity	—	---	---	---	(report)	---	---	TU_c	Quarterly	24-Hr Compos
Total Silver	—	—	---	---	(report)	---	—	ug/l	Quarterly	24-Hr Compos
Total Chromium	—	---	---	---	(report)	---	---	ug/l	Quarterly	24-Hr Compos
Methylene Chloride	—	---	---	---	(report)	---	---	ug/l	Quarterly	24-Hr Compos
Formaldehyde	—	---	---	---	(report)	---	—	ug/l	Quarterly	24-Hr Compos
Total Zinc	—	---	---	---	(report)	---	---	ug/l	Quarterly	24-Hr Compos
Total Nickel	—	---	---	---	(report)	---	—	ug/l	Quarterly	24-Hr Compos
Chlorodifluoromethane	—	---	---	---	(report)	---	—	ug/l	Quarterly	24-Hr Compos

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: 53.5 MGD

PART I

Section A. Effluent Limitations and Monitoring Requirements

(1) The sampling procedures, preservation and handling, and analytical protocol for compliance monitoring for mercury and PCBs shall be in accordance with EPA Method 245.1 and 608 respectively. The detection level shall not exceed 0.2 ug/l and 0.1 ug/l, respectively, unless higher levels are appropriate because of sample matrix interference. Other methods may be used upon approval of the Plainwell District Supervisor of the Surface Water Quality Division.

The water quality-based effluent limitations for mercury and PCBs are less than the level of detection using the specified analytical methods. Any discharge of mercury and PCBs at or above the level of detection is a specific violation of this permit. If all the samples in any monthly reporting period are less than the level of detection, the Michigan Department of Environmental Quality will consider the permittee to be in compliance with the final effluent limitations for these pollutants for that reporting period, provided that the permittee is also in full compliance with the mercury and PCB minimization programs set forth in Part I.A.4. This paragraph does not authorize the discharge of mercury and PCBs at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. Total PCBs shall be defined as the sum of Aroclors 1242, 1254, and 1260. In addition, any detected Aroclor-specific measurements shall be reported.

b. Sampling Type and Location

1) All 24-hour composite samples required in Part I.A.1. shall be taken prior to disinfection. The sampling for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be grab samples taken of the effluent. The Plainwell District Supervisor of the Surface Water Quality Division may approve alternate sampling locations which are demonstrated by the permittee to be representative of the effluent.

2) Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one (1) sample per day is taken, the additional samples shall be collected in near equal intervals over at least eight (8) hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

c. Percent Removal Requirements

In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period. This requirement is in effect for $CBOD_5$, from December 1 through April 30 and from October 1 through April 30 for Total Suspended Solids of each calendar year.

PART I

Section A. Effluent Limitations and Monitoring Requirements

2. Chronic Toxicity Testing, Outfall 001

The permittee shall conduct chronic toxicity tests on each of two (2) test species once every three (3) months until the permit is reissued or modified. Test species shall include fathead minnow and *Ceriodaphnia dubia*. Testing and reporting procedures shall follow procedures contained in EPA/600/4-91/002, "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", for fathead minnow and *Ceriodaphnia*. Acute toxicity and chronic toxicity data shall be included in the reporting of the toxicity test results. Toxicity test data acceptability is contingent upon the validation of the test method by the testing laboratory. Such validation shall be submitted to the Department upon request. The final report on the tests shall be submitted to the Plainwell District Supervisor of the Surface Water Quality Division within 30 days after completion of the test.

The Surface Water Quality Division will review the toxicity data submitted by the permittee to determine if the toxicity requirements of Rules 57 and 82 (Rules 323.1057 and 323.1082 of the Michigan Administrative Code) are being satisfied.

a. If the toxicity requirements of Rule 57 and Rule 82 are not being met, upon written notification by the Plainwell District Supervisor, the following conditions apply. Within 90 days of the above notification, the permittee shall implement a Toxicity Identification/Reduction Evaluation (TI/RE). The objective of the TI/RE shall be to reduce the toxicity of the final effluent from outfall 001 to acceptable levels ($\leq$ 1.0 TU_A and $\leq$ 1.8 TU_C) within three (3) years of notification. The following documents are available as guidance to reduce the toxicity to acceptable levels: Phase I, EPA/600/6-91/003 (acute) and EPA/600/6-91/005F (chronic); Phase II, EPA/600/R-92/080 (acute and chronic); and Phase III, EPA/600/R-92/081 (acute and chronic). The TI/RE shall include quarterly chronic toxicity tests of the discharge from outfall 001 for the duration of the TI/RE. The tests shall be conducted and reported as specified above. Upon approval of the Plainwell District Supervisor, the chronic toxicity tests may be conducted using the more sensitive species identified in the chronic toxicity database. If a more sensitive species cannot be identified, the chronic toxicity tests shall be performed with both species. Annual reports on the quarterly tests shall be submitted to the Plainwell District Supervisor within 30 days of the completion of the last test of each annual cycle.

b. This permit may be modified in accordance with applicable laws and rules to include additional whole effluent toxicity control requirements as necessary.

PART I

Section A. Effluent Limitations and Monitoring Requirements

3. Special Condition - Reopener for metals Limitations

The permittee may request modification of the total cadmium and total copper final effluent limitations contained in this permit and demonstrate either that higher limits are acceptable or that limitations and/or monitoring are not needed To be successful, such demonstration must be consistent with requirements of 40 CFR 122.62 and sections 303 (d)(4) and 402 (o) of the Act. If the demonstration is successful, the permit may then be modified after public notice and department approval.

4. Mercury and PCB Minimization Program

This special condition establishes the program necessary for proceeding toward compliance with the final effluent limitations for mercury and PCBs. The goal is to reduce all sources of mercury and PCBs entering the wastewater collection system to less than the level of detection as identified in Part I.A.1. The permittee shall continue the Minimization Program approved on July 6, 1990.

On or before October 1 of each year, the permittee shall continue to submit a Program Update to the Plainwell District Supervisor that includes (1) the monitoring results for the previous year, (2) an updated list and assessment of inputs of potential mercury and PCB sources, and (3) a summary of actions taken to minimize mercury and PCB discharges.

5. Special Condition - Nonylphenol and Octylphenol Monitoring

The permittee shall monitor the treatment plant effluent for the chemicals nonylphenol and octylphenol once per month for 12 months. Samples for nonylphenol shall be 24 hour composites and analyzed using the steam distillation/solvent extraction method and high performance liquid chromatography (HPLC). This method can achieve a detection level of 0.11 ug/l. Samples for octylphenol shall be 24 hour composites and analyzed using the same extraction methods. However, reversed-phase HPLC and/or high-resolution gas chromatography (HRGC) is needed for the detectionof octylphenol a 1 ug/l (EPA Method 625).

PART I

Section A.. Effluent Limitations and Monitoring Requirements

6. Storm Water Pollution Prevention Plan

The permittee is authorized to discharge storm water associated with industrial activities as defined in 40 CFR 122.26(b)(14). These storm water discharges shall be controlled in accordance with the requirements of this special condition. The permittee shall develop a Storm Water Pollution Prevention Plan (plan) in accordance with good engineering practices. The goal of the plan is to maximize control of significant materials (as defined in Part I.A.6.k.) and reduce the level of such materials in storm water so that storm water discharges will not cause a violation of Michigan's Water Quality Standards. A schedule for achieving this goal is established in Part I.A.6.a. To meet this goal, the permittee shall develop a plan to achieve the following objectives:

- identify a person or persons at the facility who shall have supervision over the inspection and management of storm water controls and who is or will be certified under Part I.A.6.a.1);

- identify sources of significant materials (as defined in Part I.A.6.k.) that could mix with storm water and be discharged from the facility (Part I.A.6.c.);

- identify non-structural controls to be used at the source to prevent significant materials from entering storm water (Part I.A.6.d.);

- provide structural controls, if needed, to prevent significant materials from entering storm water, and to give additional control or treatment for storm water that has become contaminated by significant materials (Part I.A.6.e.);

- ensure that the plan is regularly evaluated and updated (Part I.A.6.f.);

- ensure that all non-storm water discharges are covered by an NPDES permit (Part I.A.6.m.).

a. Schedule for Plan Preparation and Implementation - Existing Dischargers

1) On or before November 10, 1995, the permittee shall have a storm water operator certified by the Michigan Department of Environmental Quality, as required by Section 3110 of the Michigan Act. The storm water certified operator shall have supervision over the facility's storm water treatment and control measures included in the plan.

2) On or before May 10, 1996, the permittee shall develop the plan. The plan shall be reviewed and signed by the certified storm water operator, and in accordance with Part I.A.6.l. The permittee shall certify in writing to the Plainwell District Supervisor of the Surface Water Quality Division that the plan has been developed in accordance with the requirements of this permit and that all non-storm water discharges are covered by an NPDES permit.

3) On or before November 10, 1996, the permittee shall complete implementation of the non-structural requirements of the plan (see Part I.A.6.d.) and shall certify in writing to the Plainwell District Supervisor that the non-structural requirements of the plan have been implemented.

4) On or before November 10, 1997, the permittee shall have completed construction of and put into operation all structural storm water pollution control facilities identified in the plan (see Part I.A.6.e.). The permittee shall certify in writing to the Plainwell District Supervisor that all structural controls have been completed.

PART I

Section A. Effluent Limitations and Monitoring Requirements

b. Failure to Comply with Schedules for Plan Preparation and Implementation
Failure to meet the certification requirements and schedules listed in Part I.A.6.a. constitutes a violation of this permit. If such a violation should occur, the permittee shall provide written notification within 14 calendar days following the missed deadline to the Plainwell District Supervisor of the Surface Water Quality Division. The permittee's written notification shall include identification of the requirement not completed, an explanation of the failure to meet the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be met.

c. Source Identification
To identify potential sources of significant materials that can enter storm water and subsequently be discharged from the facility, the plan shall, at a minimum, include the following:

1) A site map identifying the following: buildings and other permanent structures; storage or disposal areas for significant materials; storm water discharge outfalls (numbered for reference); location of storm water inlets contributing to each outfall; location of NPDES permitted discharges other than storm water; outlines of the drainage areas contributing to each outfall; structural runoff controls or storm water treatment facilities; areas of vegetation; areas of exposed and/or erodible soils; impervious surfaces (roofs, asphalt, concrete); name and location of receiving water(s); and areas of known or suspected impacts on surface waters as designated under Part 201 of the Michigan Act.

2) An evaluation of the reasonable potential for contribution of significant materials to runoff from at least the following areas or activities: loading, unloading, and other material handling operations; outdoor storage; outdoor manufacturing or processing activities; significant dust or particulate generating processes; discharge from rooftop vents, stacks and air emission controls; on-site waste disposal practices; maintenance and cleaning of vehicles, machines and equipment; other appropriate areas; and sites of environmental contamination listed under Part 201 of the Michigan Act.

3) A list of all significant materials that could enter storm water. For each material listed, the plan shall include the following descriptions:

a) ways in which each type of material has been or has reasonable potential to become exposed to storm water (e.g., spillage during handling; leaks from pipes, pumps, and vessels; contact with storage piles; waste handling and disposal; deposits from dust or overspray, etc.);

b) identification of the outfall or outfalls through which the material may be discharged if released;

c) a listing of oil and other polluting materials that have been spilled or leaked over the three (3) years prior to the completion of the plan; the date, volume and exact location of release; and the action taken to clean up the material and/or prevent exposure to storm water runoff or contamination of surface waters of the state. Any release that occurs after the plan has been developed shall be controlled in accordance with the plan and is cause for the plan to be updated as appropriate within 14 calendar days of obtaining knowledge of the spill or loss.

d) a summary of existing storm water discharge sampling data (if available) describing pollutants in storm water discharges associated with industrial activity at the facility. This summary shall be accompanied by a description of the suspected source(s) of the pollutants detected.

PART I

Section A. Effluent Limitations and Monitoring Requirements

d. Preventive Measures and Source Controls, Non-Structural
To prevent significant materials from contacting storm water at the source, the plan shall, at a minimum, include the following non-structural controls:

1) Description of a program for routine preventive maintenance which includes requirements for inspection and maintenance of storm water management and control devices (e.g., cleaning of oil/water separators and catch basins) as well as inspecting and testing plant equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters. A log of the inspection and corrective actions shall be maintained on file by the permittee, and shall be retained in accordance with Part I.A.6.h.

2) A schedule for comprehensive inspection of equipment, plant areas, and structural pollution prevention and treatment controls to be performed at least once every six (6) months. A report of the results of the comprehensive inspection shall be prepared and retained in accordance with Part I.A.6.h. The report shall identify any incidents of non-compliance with the plan. When a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with this plan.

3) A description of good housekeeping procedures to maintain a clean, orderly facility.

4) The plan shall specify material handling procedures and storage requirements for significant materials. Equipment and procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The procedures shall identify measures to prevent the spilled materials from being discharged into storm water. The plan may include, by reference, requirements of either a Pollution Incident Prevention Plan (PIPP) prepared in accordance with the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code), or a Spill Prevention Control and Countermeasure (SPCC) plan prepared in accordance with 40 CFR 112.

5) Identification of areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall also identify measures used to control soil erosion and sedimentation.

6) A description of employee training programs which will be implemented to inform appropriate personnel at all levels of responsibility of the components and goals of the plan. The plan shall identify periodic dates for such training.

7) Identification of significant materials expected to be present in storm water discharges following implementation of non-structural preventative measures and source controls.

e. Structural Controls for Prevention and Treatment
Where implementation of the measures required by Part I.A.6.d. does not control storm water discharges in accordance with Part I.A.6., the plan shall provide a description of the location, function, and design criteria of structural controls for prevention and treatment. Structural controls may be necessary:

1) to prevent uncontaminated storm water from contacting or being contacted by significant materials.

2) if preventive measures are not feasible or are inadequate to keep significant materials out of the storm water. Structural controls shall be used to treat, divert, recycle, reuse or otherwise manage storm water in a manner that reduces the level of significant materials in the storm water and provides compliance with Michigan's Water Quality Standards as identified under Part I.A.6.i.

PART I

Section A. Effluent Limitations and Monitoring Requirements

f. Keeping Plans Current

1) The permittee shall review the plan no later than 30 months after the effective date of the permit and annually thereafter.

Based on the review, the permittee shall amend the plan as needed to ensure continued compliance with the terms and conditions of this permit. The plan shall also be updated or amended whenever changes at the facility increase or have the potential to increase the exposure of significant materials to storm water, or when the plan is determined by the permittee or the Plainwell District Supervisor of the Surface Water Quality Division to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. Updates based on increased activity at the facility shall include a description of how the permittee intends to control any new sources of significant materials in accordance with the requirements of Parts I.A.6.c., I.A.6.d., and I.A.6.e.

2) The Plainwell District Supervisor or authorized representative may notify the permittee at any time that the plan does not meet minimum requirements. Such notification shall identify why the plan does not meet minimum requirements. The permittee shall make the required changes to the plan within 30 days after such notification from the Plainwell District Supervisor or authorized representative, and shall submit to the Plainwell District Supervisor a written certification that the requested changes have been made.

g. Signature and Plan Review

1) The plan shall be signed by the storm water certified operator and by either the permittee or an authorized representative in accordance with Part I.A.6.l. The plan shall be retained on site of the facility which generates the storm water discharge.

2) The permittee shall make plans, reports, log books, runoff quality data, and supporting documents available upon request to the Plainwell District Supervisor of the Surface Water Quality Division or authorized representative.

h. Record Keeping

The permittee shall maintain records of all inspection and maintenance activities. Records shall also be kept describing incidents such as spills or other discharges that can affect the quality of storm water runoff. All such records shall be retained for three (3) years.

i. Water Quality Standards

At the time of discharge, there shall be no violation of the Michigan Water Quality Standards (Rules 323.1041 through 323.1117 of the Michigan Administrative Code) in the receiving waters as a result of the storm water discharge. This requirement includes, but is not limited to, the following conditions:

1) In accordance with Rule 50 (Rule 323.1050 of the Michigan Administrative Code), the receiving waters shall not have any of the following unnatural physical properties in quantities which are or may become injurious to any designated use: unnatural turbidity, color, oil film, floating solids, foams, settleable solids, suspended solids, or deposits as a result of this discharge.

2) Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the Plainwell District Supervisor of the Surface Water Quality Division followed with a written report within five (5) days detailing the findings of the investigation and the steps taken to correct the condition.

j. Requirements for Storm Water Discharges through Municipal Separate Storm Sewer Systems Serving a Population of 100,000 or More. On the effective date of this permit, the cities of Ann Arbor, Flint, Grand Rapids, Warren and Sterling Heights have been identified as having separate storm sewer systems serving a population of 100,000 or more.

PART I

Section A. Effluent Limitations and Monitoring Requirements

A storm water permit applicant or permittee who discharges storm water associated with industrial activity through a municipal separate storm sewer system serving a population of 100,000 or more shall do the following:

1) Submit a copy of the application to the operator of the municipal system.

2) Comply with applicable requirements in municipal storm water management programs developed under NPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the discharger has been notified of such conditions.

3) Make the plan available to the operator of the municipal system upon request.

k. Significant Materials includes but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (see 40 CFR 372.65); any chemical the facility is required to report pursuant to section 313 of Emergency Planning and Community Right-to-Know Act (EPCRA); salt and any material on the Critical Materials Register pursuant to Section 3111 of the Michigan Act; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

l. Signatory Requirements
All applications, reports or information submitted to the Department shall be signed and certified in accordance with 40 CFR 122.22.

m. Prohibition of Non-storm Water Discharges
Discharges of material other than storm water shall be in compliance with an NPDES permit issued for the discharge. Storm water shall be defined to include the following non-storm water discharges provided pollution prevention controls for the non-storm water component are identified in the plan: discharges from fire hydrant flushing, potable water sources including water line flushing, irrigation drainage, lawn watering, routine building wash down which does not use detergents or other compounds, pavement wash water where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material have been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated groundwater, and foundation or footing drains where flows are not contaminated with process materials such as solvents. Discharges from fire fighting activities are authorized by this permit, but do not have to be identified in the plan.

Section B. Schedule of Compliance

This section (Section B: Schedule of Compliance) is not used in this permit.

PART I

Section C. Industrial Waste Pretreatment Program

1. Federal Industrial Pretreatment Program

a. The permittee shall implement the Federal Industrial Pretreatment Program approved on October 11, 1985, and modifications thereto, which upon approval are incorporated as enforceable requirements of this permit.

b. The permittee shall comply with Rules 323.2301 through 323.2317 of the Michigan Administrative Code (Part 23 Rules), the General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403), and the approved Federal Industrial Pretreatment Program.

c. The permittee shall have the legal authority and necessary interjurisdictional agreements that provide the basis for the implementation and enforcement of the approved Federal Industrial Pretreatment Program throughout the service area. The legal authority and necessary interjurisdictional agreements shall include, at a minimum, the authority to carry out the activities specified in Rule 323.2306(a).

d. In accordance with Public Law 104-134, the permittee may submit a request to grant an exemption from the Federal Categorical Pretreatment Standards which apply to an industrial discharger that is a pharmaceutical manufacturing facility and discharged to the Kalamazoo Water Reclamation Plant (an advanced wastewater treatment plant with activated carbon) prior to April 25, 1996. The Department may approve such exemption request following a demonstration by the permittee, that the Kalamazoo Water Reclamation Plant will provide treatment and pollution removal equivalent to or better than that which would be required through a combination of pretreatment by such industrial discharger and treatment by the Kalamazoo Water Reclamation Plant in the absence of the exemption and that all other provisions of Public Law 104-134 are complied with.

e. The permittee shall develop procedures which describe, in sufficient detail, program commitments which enable implementation of the approved Federal Industrial Pretreatment Program, 40 CFR Part 403, and the Part 23 Rules in accordance with Rule 323.2306(c).

f. The permittee shall establish an interjurisdictional agreement (or comparable document) with all tributary governmental jurisdictions. Each interjurisdictional agreement shall contain, at a minimum, the following:

1) identification of the agency responsible for the implementation and enforcement of the approved Federal Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries; and

2) the provision of the legal authority which provides the basis for the implementation and enforcement of the approved Federal Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries.

g. The permittee shall prohibit discharges that:

1) cause, in whole or in part, the permittee's failure to comply with any condition of this permit or the Michigan Act;

2) restrict, in whole or in part, the permittee's approved Program for Effective Residuals Management (PERM).

3) cause, in whole or in part, operational problems at the treatment facility or in its collection system;

4) violate any of the general or specific prohibitions identified in Rule 323.2303(1) and (2);

5) violate categorical standards identified in Rule 323.2311; and

6) violate local limits established in accordance with Rule 323.2303(4).

PART I

Section C. Industrial Waste Pretreatment Program

h. The permittee shall maintain a list of its nondomestic users that meet the criteria of a significant industrial user as identified in Rule 323.2302(cc).

i. The permittee shall develop an enforcement response plan which describes, in sufficient detail, program commitments which will enable the enforcement of the approved Federal Industrial Pretreatment Program, 40 CFR Part 403, and the Part 23 Rules in accordance with Rule 323.2306(g).

j. The District Supervisor of the Surface Water Quality Division may require modifications to the approved Federal Industrial Pretreatment Program which are necessary to ensure compliance with 40 CFR Part 403 and the Part 23 Rules in accordance with Rule 323.2309.

k. The permittee shall not implement changes or modifications to the approved Federal Industrial Pretreatment Program without notification to the District Supervisor of the Surface Water Quality Division. Any substantial modification shall be subject to Department public noticing and approval in accordance with Rule 323.2309.

l. The permittee shall maintain an adequate revenue structure and staffing level for effective implementation of the approved Federal Industrial Pretreatment Program.

m. The permittee shall develop and maintain, for a minimum of three (3) years, all records and information necessary to determine nondomestic user compliance with 40 CFR Part 403, Part 23 Rules and the approved Federal Industrial Pretreatment Program. This period of retention shall be extended during the course of any unresolved enforcement action or litigation regarding a nondomestic user or when requested by the Department or the United States Environmental Protection Agency. All of the aforementioned records and information shall be made available upon request for inspection and copying by the Department and the United States Environmental Protection Agency.

n. The permittee shall evaluate the approved Federal Industrial Pretreatment Program for compliance with the 40 CFR Part 403, Part 23 Rules and the prohibitions stated in item f (above). Based upon this evaluation, the permittee shall propose to the District Supervisor of the Surface Water Quality Division all necessary changes or modifications to the approved Federal Industrial Pretreatment Program no later than the next Industrial Pretreatment Program Annual Report due date (see item o below).

o. The permittee shall develop and enforce local limits to implement the prohibitions listed in item f above. Local limits shall be based upon data representative of actual conditions demonstrated in a maximum allowable headworks loading analysis.

p. On or before April 1st of each year, the permittee shall submit, as required by Rule 323.2310(8) an Industrial Pretreatment Program Annual Report on the status of program implementation and enforcement activities. The reporting period shall begin on January 1st and end on December 31st. The Industrial Pretreatment Program Annual Report shall be submitted to the District Supervisor of the Surface Water Quality Division and may be submitted on forms provided by the Department. At a minimum, the Industrial Pretreatment Program Annual Report shall contain the following items:

1) additions, deletions, and any other modifications to the permittee's previously submitted nondomestic user inventory (Rule 323.2306(c)(i));

2) additions, deletions, and any other modifications to the permittee's approved Significant Industrial User List (Rule 323.2306(h));

3) a listing of the names of Significant Industrial Users not inspected by the permittee at least once during the reporting period or at the frequency committed to in the approved Federal Industrial Pretreatment Program;

PART I

Section C. Industrial Waste Pretreatment Program

4) a listing of the names of Significant Industrial Users not sampled for all required pollutants by the permittee at least once during the reporting period or at the frequency committed to in the approved Federal Industrial Pretreatment Program;

5) a listing of the names of Significant Industrial Users without a permit at any time during the reporting period;

6) a listing of the names of nondomestic industrial users in significant noncompliance for each of the criteria as defined in Rule 323.2302(dd)(i)-(viii);

7) proof of publication of all nondomestic users in significant noncompliance in the largest daily newspaper in the permittee's area;

8) a summary of the enforcement activities by the permittee during the report period. This Summary shall include:

a) a listing of the names of nondomestic users which were the subject of an enforcement action;

b) the enforcement action taken and the date the action was taken; and

c) whether the nondomestic user returned to compliance by the end of the reporting period (include date nondomestic user returned to compliance).

9) a listing of the names of Significant Industrial Users who did not submit pretreatment reports in accordance with requirements specified in their permit during the reporting period.

10) a listing of the names of Significant Industrial Users who did not self-monitor in accordance with requirements specified in their permit during the reporting period;

11) A summary of results of all the sampling and analyses performed of the wastewater treatment influent, effluent, and sludge conducted in accordance with approved methods during the reporting period; and

12) any other relevant information as requested by the Department.

PART I

Section D. Program for Effective Residuals Management

1. Program For Effective Residuals Management

In addition to the requirements in Part II.D.7. in this permit, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or groundwaters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

a. a management plan (treatment, transportation, storage, disposal, contingency plans);

b. an inventory of residuals production, storage, and disposal for a period of at least one (1) year;

c. an analysis of the residuals;

d. a monitoring program;

e. if land application is proposed, include site maps, soil analyses, application rates, proposed vegetation and other pertinent information; and

f. if groundwater degradation potential exists, include a hydrogeologic study.

A program has previously been submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division. The permittee shall certify that current and future residuals management practices are in accordance with the approved program or the permittee shall submit proposed modifications to the approved program. The program certification or proposed modifications shall be submitted to and approved by the Plainwell District Supervisor on or before April 1, 1997.

Disposal of residuals resulting from the treatment of wastewater shall be in accordance with the previously approved program until proposed modifications are approved. If at any time the permittee desires to make any substantial changes in the approved program, the proposed changes shall be submitted to and approved by the Plainwell District Supervisor prior to implementation. Substantial changes shall include, but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART II

Section A. Definitions

This list of definitions may include terms not applicable to this permit.

Acute toxic unit is 100 divided by the LC50 or 100 divided by the EC50 (with the LC50 or EC50 expressed as a percentage).

Chronic toxic unit is 100 divided by the MATC (with the MATC expressed as a percentage).

Daily maximum concentration is the sum of the concentrations of the individual samples of a parameter divided by the number of samples taken during any calendar day. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating the daily maximum concentration.

Daily maximum load is the total discharge by weight of a parameter discharged during any calendar day.

Daily minimum concentration is the minimum concentration of a parameter in any individual sample taken during any calendar day.

Plainwell District Supervisor of the Surface Water Quality Division is located at the Plainwell District Office, 621 North 10th Street, P.O. Box 355, Plainwell, Michigan 49080, telephone: 616-685-9886 (fax: 616-685-1342).

Division of Drinking Water and Radiological Protection mailing address is P.O. Box 30195, Lansing, Michigan 48909.

Division of Health Facility Development, Michigan Department of Public Health mailing address is P.O. Box 30195, Lansing, Michigan 48909.

EC50 (median effect concentration) is the concentration of the effluent predicted by the acute toxicity test results to produce an adverse effect in 50% of the test organism population in a given time interval.

Fecal coliform bacteria monthly (30-day) average is the geometric mean of the samples collected in a calendar month.

Fecal coliform bacteria 7-day average is the geometric mean of the samples collected in any 7-day period.

Flow Proportioned sample is a composite sample with the sample volume proportional to the effluent flow.

Grab sample is a single sample taken at neither a set time nor flow.

Interference is a discharge which, alone or in conjunction with a discharge or discharges from other sources, both: 1) inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and 2) therefore, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or, of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act. [This definition does not apply to sample matrix interference.]

LC50 (median lethal concentration) is the concentration of the effluent predicted by the acute toxicity test results to kill 50% of the test organism population in a given time interval.

MATC is the maximum acceptable toxicant concentration obtained by calculating the geometric mean of the lower and upper chronic limits from a chronic toxicity test.

PART II

Section A. Definitions

Monthly (30-day) average concentration is the sum of the concentrations of the individual samples divided by the number of samples taken during a reporting month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average concentration.

Monthly (30-day) average load is the sum of the daily maximum loads of a parameter divided by the number of daily maximum loads in the reporting month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average concentration.

National Pretreatment Standards are the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Federal Act. The standards establish nationwide limits for specific industrial categories for discharge to a POTW.

Noncontact Cooling Water is water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product or finished product.

Nondomestic user is any discharger to a POTW that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

Pretreatment is reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

POTW is a publicly owned treatment works.

Regional Administrator is the Region V Administrator, U.S. EPA, located at R-16J, 77 W. Jackson Blvd., Chicago, Illinois 60604.

7-day average concentration is the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive days in a calendar month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating the 7-day average concentration.

7-day average load is the sum of the weights of parameters discharged divided by the number of samples taken during any 7 consecutive days in a calendar month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating the 7-day average load.

Significant industrial user is a nondomestic user that: 1) is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or 2) discharges an average of 25,000 gallons per day or more of process wastewater to a POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the permittee as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's treatment plant operation or violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

3-Portion Composite sample is a sample consisting of three equal volume grab samples collected at equal intervals over an 8 hour period.

***24-Hour Composite sample** is a flow proportioned composite sample consisting of hourly or more frequent portions that* are taken over a 24-hour period.

PART II

Section B. Monitoring Procedures

1. Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to Section 304(h) of the Federal Act (40 CFR Part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants). For parameters not specified in the permit or covered by the regulations, test procedures shall be submitted for approval to the Plainwell District Supervisor of the Surface Water Quality Division.

The permittee shall periodically calibrate and perform maintenance procedures on all analytical instrumentation at intervals to ensure accuracy of measurements. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

3. Instrumentation

The permittee shall periodically calibrate and perform maintenance procedures on all monitoring instrumentation at intervals to ensure accuracy of measurements.

4. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information: 1) the exact place, date, and time of measurement or sampling; 2) the person(s) who performed the measurement or sample collection; 3) the dates the analyses were performed; 4) the person(s) who performed the analyses; 5) the analytical techniques or methods used; 6) the date of and person responsible for equipment calibration; and 7) the results of all required analyses.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the Michigan Department of Environmental Quality.

PART II

Section C. Reporting Requirements

1. Start-up Notification

If the permittee will not discharge during the first 60 days following the effective date of this permit, the permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division within 14 days, and then 60 days prior to the commencement of the discharge.

2. DMR Submittal Requirements

Unless instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall submit Discharge Monitoring Report (DMR) forms to the PCS Unit, Surface Water Quality Division, Michigan Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan, 48909-7773, for each calendar month of the authorized discharge period(s). The DMRs shall be postmarked no later than the 10th day of the month following each month of the authorized discharge period(s).

3. Retained Self-Monitoring Requirements

If instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall maintain a year-to-date log of retained self-monitoring results and, upon request, provide such log for inspection to the staff of the Surface Water Quality Division, Michigan Department of Environmental Quality (in the case of mobile home parks, campgrounds, marinas and schools, to the staff of the Drinking Water and Radiological Protection Division, Michigan Department of Environmental Quality, or, in the case of hospitals, nursing homes and extended care facilities, to the staff of the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services). Retained self-monitoring results are public information and shall be promptly provided to the public upon request.

The permittee shall certify, in writing, to the Plainwell District Supervisor of the Surface Water Quality Division, on or before January 10th of each year, that: 1) all retained self-monitoring requirements have been complied with and a year-to-date log has been maintained; and 2) the application on which this permit is based still accurately describes the discharge.

4. *Additional Monitoring by Permittee*

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

5. Compliance Dates Notification

Within 14 days of every compliance date specified in this permit, the permittee shall submit a written notification to the Plainwell District Supervisor of the Surface Water Quality Division indicating whether or not the particular requirement was accomplished. If the requirement was not accomplished, the notification shall include an explanation of the failure to accomplish the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be accomplished. If a written report is required to be submitted by a specified date and the permittee accomplishes this, a separate written notification is not required.

PART II

Section C. Reporting Requirements

6. Noncompliance Notification

Compliance with all requirements set forth in the Federal Act, Parts 31 and 41 of the Michigan Act, and related regulations and rules is required. All instances of noncompliance shall be reported as follows:

a. 24-hour reporting - Any noncompliance which may endanger health or the environment (including daily maximum discharge limitation exceedances) shall be reported, verbally, within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days.

b. other reporting - The permittee shall report, in writing, all other instances of noncompliance not described in a. above at the time monitoring reports are submitted; or, in the case of retained self-monitoring, within five (5) days from the time the permittee becomes aware of the noncompliance.

Written reporting shall include: 1) a description of the discharge and cause of noncompliance; and 2) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and the steps taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

7. Spill Notification

The permittee shall immediately report any spill or loss of any product, by-product, intermediate product, oils, solvents, waste material, or any other polluting substance which occurs to the surface waters or groundwaters of the state by calling the Department of Environmental Quality's 24-hour Emergency Response telephone number, 1-800-292-4706 (calls from out-of-state dial 1-517-373-8166); and within ten (10) days of the spill or loss, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division a full written explanation as to the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken, and schedule of implementation.

8. Upset Noncompliance Notification

If a process "upset" (defined as an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee) has occurred, the permittee who wishes to establish the affirmative defense of upset shall notify the Plainwell District Supervisor of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions; and within five (5) days, provide in writing, the following information:

a. that an upset occurred and that the permittee can identify the specific cause(s) of the upset;

b. that the permitted wastewater treatment facility was, at the time, being properly operated; and

c. that the permittee has specified and taken action on all responsible steps to minimize or correct any adverse impact in the environment resulting from noncompliance with this permit.

In any enforcement proceedings, the permittee, seeking to establish the occurrence of an upset, has the burden of proof.

PART II

Section C. Reporting Requirements

9. Bypass Prohibition and Notification

a. Bypass Prohibition - Bypass is prohibited unless:

1) bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2) there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass; and

(3) the permittee submitted notices as required under 9.b. or 9.c. below.

b. Notice of Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Plainwell District Supervisor of the Surface Water Quality Division, if possible at least ten days before the date of the bypass, and provide information about the anticipated bypass as required by the Plainwell District Supervisor. The Plainwell District Supervisor may approve an anticipated bypass, after considering its adverse effects, if it will meet the three conditions listed in 9.a. above.

c. Notice of Unanticipated Bypass - The permittee shall submit notice to the Plainwell District Supervisor of the Surface Water Quality Division of an unanticipated bypass by telephone at 616-685-9886 (if the notice is provided after regular working hours, use the following number: 1-800-292-4706) as soon as possible, but no later than 24 hours from the time the permittee becomes aware of the circumstances.

d. Written Report of Bypass - A written submission shall be provided within five (5) working days of commencing any bypass to the Plainwell District Supervisor of the Surface Water Quality Division, and at additional times as directed by the Plainwell District Supervisor. The written submission shall contain a description of the bypass and its cause; the period of bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass; and other information as required by the Plainwell District Supervisor.

e. Bypass Not Exceeding Limitations - The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of 9.a., 9.b., 9.c., and 9.d., above. This provision does not relieve the permittee of any notification responsibilities under Part II.C.10. of his permit.

f. Definitions

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

PART II

Section C. Reporting Requirements

10. Changes in Discharge

The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of: 1) detectable levels of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application or listed in the application at less than detectable levels; 2) detectable levels of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information (The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.); or 3) any chemical at levels greater than five times the average level reported in the application submitted on April 3, 1995. Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the compliance schedules.

11. Changes in Facility Operations

Any anticipated facility expansion, production increases, or process modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new application to the Plainwell District Supervisor of the Surface Water Quality Division or, by notice to the Plainwell District Supervisor if the following conditions are met: 1) the changes will not result in the discharge of wastewater not currently authorized or at volumes greater than currently authorized by this permit; 2) the changes will not violate the effluent limitations specified in this permit; and 3) the changes will not require notification pursuant to Part II.C.10. Following such notice, the permit may be modified according to applicable laws and rules to specify and limit any pollutant not previously limited.

12. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Plainwell District Supervisor of the Surface Water Quality Division 30 days prior to the actual transfer of ownership or control.

PART II

Section D. Management Responsibilities

1. Duty to Comply

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

It is the duty of the permittee to comply with all the terms and conditions of this permit. Any noncompliance with the Effluent Limitations, Special Conditions, or terms of this permit constitutes a violation of the Michigan Act and/or the Federal Act and constitutes grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of an application for permit renewal.

2. Operator Certification

The permittee shall have the waste treatment facilities under direct supervision of an operator certified at the appropriate level for the facility certification by the Michigan Department of Environmental Quality, as required by Sections 3110 and 4104 of the Michigan Act.

3. Facilities Operation

The permittee shall, at all times, properly operate and maintain all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures.

4. Power Failures

In order to maintain compliance with the effluent limitations of this permit and prevent unauthorized discharges, the permittee shall either:

a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit; or

b. upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the surface waters or groundwaters of the state resulting from noncompliance with any effluent limitation specified in this permit including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge in noncompliance.

6. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials in accordance with the requirements of the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code). For a POTW, these facilities shall be approved under Part 41 of the Michigan Act.

PART II

Section D. Management Responsibilities

7. Waste Treatment Residues

Solids, sludges, biosolids, filter backwash, scrubber water or other pollutants resulting from treatment or control of wastewaters shall be disposed of in an environmentally compatible manner and according to applicable laws and rules. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state.

8. Right of Entry

The permittee shall allow the Michigan Department of Environmental Quality, any agent appointed by the Department or the Regional Administrator, upon the presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring equipment or monitoring method required in this permit and to sample any discharge of pollutants.

9. Availability of Reports

Except for data determined to be confidential under Section 308 of the Federal Act and Rule 2128 (Rule 323.2128 of the Michigan Administrative Code), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the Regional Administrator. As required by the Federal Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Act and Sections 3112, 3115, 4106 and 4110 of the Michigan Act.

PART II

Section E. Activities Not Authorized by This Permit

1. Discharge to the Groundwaters

This permit does not authorize any discharge to the groundwaters. Such discharge must be authorized by a groundwater discharge permit issued pursuant to the Michigan Act.

2. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction for a POTW must be by permit issued under Part 41 of the Michigan Act. Approval for such construction for a mobile home park, campground, hospital, nursing home or marina shall be from the Michigan Department of Public Health.

3. Civil and Criminal Liability

Except as provided in permit conditions on "Bypass" (Part II.C.0. pursuant to 40 CFR 122.41(m)), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or labor disputes.

4. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee may be subject under Section 311 of the Federal Act except as are exempted by federal regulations.

5. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Federal Act.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law.

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

SURFACE WATER QUALITY DIVISION
KNAPPS CENTRE
PO BOX 30273
LANSING MI 48909-7773

[redacted]

CERTIFIED MAIL – 7000 0520 0016 5014 0540

RECEIVED
OCT 04 2001
Kalamazoo City Clerk

Mr. Stephen French, Clerk
City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007-4796

Dear Mr. French:

SUBJECT: NPDES Permit No. MI0023299
Kalamazoo WWTP, 1415 North Harrison Street, Kalamazoo

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Environmental Quality and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Mr. Steve Norton, Acting District Supervisor
Kalamazoo District Office, SWQD, DEQ
7953 Adobe Road
Kalamazoo, Michigan 49009-5026
Telephone: 616-567-3573

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Attachment: Permit
cc: EPA-Region 5
208 Agency – Southcentral Michigan Planning Council
Wastewater Treatment Facility Superintendent
Mr. Steve Norton, Acting Kalamazoo District Supervisor, SWQD (2)
PCS Unit, SWQD
Point Source Studies (Grand Rapids District Office), SWQD
Industrial Pretreatment Program Unit, SWQD
Files

EQP 0100e
(Rev. 1/98)

PERMIT NO. MI0023299

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18,

City of Kalamazoo
241 West South Street
Kalamazoo, Michigan 49007-4796

is authorized to discharge from the Kalamazoo Water Reclamation Plant located at

1415 North Harrison Street
Kalamazoo, Michigan 49007-2565

designated as Kalamazoo WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on January 1, 2002. Any person who is aggrieved by this permit may file a sworn petition with the Office of Administrative Hearings of the Michigan Department of Environmental Quality, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Department may reject any petition filed more than 60 days after issuance as being untimely. If any condition of this permit is administratively challenged, the entire challenged permit is stayed and the previous permit will remain in effect until the Department takes final action after the Administrative Hearing.

This permit and the authorization to discharge shall expire at midnight, October 1, 2005. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit an application which contains such information and forms as are required by the Michigan Department of Environmental Quality to the Kalamazoo District Supervisor of the Surface Water Quality Division by April 1, 2005.

In accordance with Section 324.3118 of the Michigan Act, the permittee shall make payment of a $200.00 annual storm water fee to the Department, which shall be postmarked no later than March 15 of each year.

This permit is based on a complete application submitted on March 31, 2000. The provisions of this permit are severable. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term in accordance with applicable laws and rules. On its effective date this permit shall supersede NPDES Permit No. MI0023299, expiring October 1, 2000.

Issued September 26, 2001

William E. McCracken
Chief, Permits Section
Surface Water Quality Division

PART I

Section A. Limitations and Monitoring Requirements

1. Final Effluent Limitations, Monitoring Point 001A

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant from Monitoring Point 001A through Outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

	Maximum Limits for Quantity or Loading				Maximum Limits for Quality or Concentration					
Parameter	Monthly	7-Day	Daily	Units	Monthly	7-Day	Daily	Units	Frequency of Analysis	Sample Type
Flow	(report)	—	(report)	MGD	—	—	—	—	Daily	Report Total Daily Flow
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)										
5/1-9/30	3100	4500	—	lbs/day	—	—	10	mg/l	Daily	24-Hr Compos
10/1-10/31	4400	6700	—	lbs/day	—	—	15	mg/l	Daily	24-Hr Compos
11/1-11/30	8000	12000	—	lbs/day	—	—	27	mg/l	Daily	24-Hr Compos
12/1-4/30	11000	18000	—	lbs/day	25	40	—	mg/l	Daily	24-Hr Compos
Total Suspended Solids										
5/1-9/30	8900	13000	—	lbs/day	20	30	—	mg/l	Daily	24-Hr Compos
10/1-4/30	13000	20000	—	lbs/day	30	45	—	mg/l	Daily	24-Hr Compos:
Ammonia Nitrogen (as N)										
5/1-9/30	—	890	—	lbs/day	—	—	2	mg/l	Daily	24-Hr Composi
10/1-10/31	—	2900	—	lbs/day	—	—	6.5	mg/l	Daily	24-Hr Composi
Total Phosphorus (as P), see Part I.A.1.h	225	—	—	lbs/day	1.0	—	—	mg/l	Daily	24-Hr Composi
Fecal Coliform Bacteria	—	—	—	—	200	400	—	cts/100 ml	Daily	Grab
Total Residual Chlorine	—	—	—	—	—	—	0.038	mg/l	Daily	Grab
					Minimum Monthly					
$CBOD_5$ Minimum % Removal										
12/1-4/30	—	—	—	—	85	—	—	%	Monthly	Calculation
Total Suspended Solids Minimum % Removal										
10/1-4/30	—	—	—	—	85	—	—	%	Monthly	Calculation
					Minimum Daily		Maximum Daily			
pH	—	—	—	—	6.5	—	9.0	S.U.	Daily	Grab
Dissolved Oxygen	—	—	—	—	4.0	—	—	mg/l	Daily	Grab

PART I

Section A. Limitations and Monitoring Requirements

Parameter	Maximum Limits for Quantity or Loading				Maximum Limits for Quality or Concentration				Frequency of Analysis	Sample Type
	Monthly	7-Day	Daily	Units	Monthly	7-Day	Daily	Units		
Total Mercury	---	---	---	---	---	---	200	ng/l	Weekly	Grab
beginning 3/1/03 (see Part I.A.1.e,f)	.01	---	---	lbs/day	30	---	---	ng/l	Weekly	Grab
Acute Toxicity	---	---	---	---	---	---	(report)	TU_a	Quarterly	24-Hr Compos
beginning 8/1/04	---	---	---	---	---	---	1.0	TU_a	Monthly	24-Hr Compos
Chronic Toxicity	---	---	---	---	(report)	---	---	TU_c	Quarterly	24-Hr Compos
beginning 8/1/04	---	---	---	---	2.0	---	---	TU_c	Monthly	24-Hr Compos
Total Silver	1.1	---	---	lbs/day	2.4	---	22	ug/l	Weekly	24-Hr Composi

The following design flow was used in determining the above limitations, but is not to be considered a limitation or actual capacity: 53.5 MGD

a. Narrative Standard
In accordance with R323.1050 of the Water Quality Standards, the receiving water shall not have any of the following unnatural physical properties in quantities which or may become injurious to any designed use: turbidity, color, oil films, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Sampling Locations
Samples for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, Total Mercury, Total Silver, Chronic Toxicity, Acute Toxicity, and Total Phosphorus shall be taken prior to disinfection. Samples for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be taken after disinfection. The Kalamazoo District Supervisor of the Surface Water Quality Division may approve alternate sampling locations which are demonstrated by the permittee to be representative of the effluent.

c. Total Residual Chlorine
Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one (1) sample per day is taken, the additional samples shall be collected in near equal intervals over at least eight (8) hours. The samples shall be analyzed immediately upon collection and the average reported as the daily concentration. EPA Method 330.1 or the Orion 97-70 electrode shall be used for analysis.

d. Percent Removal Requirements
These requirements shall be calculated based on the monthly (30-day) effluent $CBOD_5$ and Total Suspended Solids concentrations and the monthly influent concentrations for approximately the same period.

e. Effluent Limitation for Total Mercury
The final limit for Total Mercury is the Level Currently Achievable (LCA) based on a multiple discharger variance from the water quality-based effluent limit of 1.3 ng/l, pursuant to Rule 323.1103(9) of the Water Quality Standards. Compliance with this limit shall be determined as a running 12-month arithmetic mean, with the present monthly average result plus the preceding 11 monthly average results added together and divided by 12. If the running 12-month arithmetic mean for any month is less than the LCA, the Department will consider the permittee to be in compliance for Total Mercury for that month, provided the permittee is also in full compliance with the Pollutant Minimization Program for Total Mercury, set forth in Part I.A.2.

PART I

Section A. Limitations and Monitoring Requirements

The permittee may choose to demonstrate that an alternate site-specific LCA is appropriate. Such request and supporting documentation shall be submitted in writing to the Kalamazoo District Supervisor. Documentation shall include a minimum of 12 samples taken over a 12 month period in accordance with EPA Method 1631. Upon approval, the alternate site-specific LCA shall be used for determining compliance.

f. Total Mercury Testing Requirements

The analytical protocol for total mercury shall be in accordance with EPA Method 1631, Revision C, "Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry". The quantification level for total mercury shall be 0.5 ng/l, unless a higher level is appropriate because of sample matrix interference. Justification for higher quantification levels shall be submitted to the Kalamazoo District Supervisor of the Surface Water Quality Division.

The use of clean technique sampling procedures is strongly recommended. Guidance for clean technique sampling is contained in: EPA Method 1669, *Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels (Sampling Guidance)*, EPA-821-R96-001, July 1996. Information and data documenting the permittee's sampling and analytical protocols and data acceptability shall be submitted to the Department upon request.

g. Whole Effluent Toxicity Requirements

Test species shall include fathead minnow and either *Daphnia magna* or *Ceriodaphnia dubia*. Testing and reporting procedures shall follow procedures contained in EPA/600/4-91/002, "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," for fathead minnow and *Ceriodaphnia*, and ASTM E1193-97 "Standard Guide for Conducting *Daphnia magna* Life-Cycle Toxicity Tests" for *D. magna* as modified by the Surface Water Quality Division ("SWQD modifications to ASTM E1193-97"). Toxicity test pH shall be maintained at 8 standard units. Acute and chronic toxicity data shall be included in the reporting for the toxicity test results. For acute toxicity, the maximum value of any test shall be reported on the Discharge Monitoring Reports (DMRs). Acute toxicity results shall not be averaged. For chronic toxicity, the greater value of the two species shall be reported on the DMRs. If multiple chronic toxicity tests for the same species are performed during the month, the monthly average value shall be determined for each species and the greater value shall be reported. Report acute toxicity in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs. Report chronic toxicity in the "AVERAGE" column under "QUALITY OR CONCENTRATION" on the DMRs. After one (1) year of toxicity testing and upon approval of the Kalamazoo District Supervisor of the Surface Water Quality Division, the chronic toxicity tests may be performed using the more sensitive species identified in the chronic toxicity database. If a more sensitive species cannot be identified, the chronic toxicity tests shall be performed with both species. Toxicity test data acceptability is contingent upon the validation of the test method by the testing laboratory. Such validation shall be submitted to the Department upon request.

1) When monitoring shows persistent exceedance of the 2.0 TU_C limit or the 1.0 TU_A limit for effluent toxicity, the Kalamazoo District Supervisor will determine whether the permittee must implement the toxicity control program requirements specified in 2) below.

2) Upon written notification by the Kalamazoo District Supervisor, the following conditions apply. Within 90 days of the notification, the permittee shall implement a TRE. The objective of the TRE shall be to reduce the toxicity of the final effluent from monitoring point 001A to $\leq$ 2.0 TU_C and $\leq$ 1.0 TU_A. The following documents are available as guidance to reduce toxicity to acceptable levels. Phase I, EPA/600/6-91/005F (chronic), EPA/600/6-91/003 (acute); Phase II, EPA/600/R-92/080 (acute and chronic); Phase III, EPA/600/R-92/081 (acute and chronic); and POTWs, EPA/833B-99/002. Annual progress reports shall be submitted to the Kalamazoo District Supervisor within 30 days of the completion of the last test of each annual cycle.

PART I

Section A. Limitations and Monitoring Requirements

h. Reduction of Total Phosphorus in the Kalamazoo River/Lake Allegan Watershed

The Department has developed a Total Maximum Daily Load (TMDL) for total phosphorus in Lake Allegan. The TMDL is established to protect Lake Allegan from high nutrient levels which has resulted in violations of water quality standards. In addition to establishing the TMDL, the Department is signatory to a "Cooperative Agreement to Meet Total Maximum Daily Load (TMDL) for Phosphorus" (cooperative agreement). Signatories to the cooperative agreement include point source dischargers of phosphorus and other stakeholders including nonpoint source contributors. The signatories to the cooperative agreement have agreed to participate with other point and nonpoint contributors in the watershed to reduce phosphorus as necessary to meet the goals of the TMDL. This will be accomplished by the development of phosphorus reduction implementation plans and other activities as specified in the cooperative agreement.

If it is determined that commitments under the cooperative agreement are not met, this permit may be modified to include the appropriate phosphorus requirements in accordance with applicable laws and rules.

2. Pollutant Minimization Program for Total Mercury

The goal of the Pollutant Minimization Program is to maintain the effluent concentration of total mercury at or below 1.3 ng/l. The permittee shall continue to implement the Pollutant Minimization Program approved on July 6, 1990, and modifications thereto, to proceed toward the goal. The Pollutant Minimization Program includes the following:

a. an annual review and semi-annual monitoring of potential sources of mercury entering the wastewater collection system;

b. a program for quarterly monitoring of influent and periodic monitoring of sludge for mercury; and

c. implementation of reasonable cost-effective control measures when sources of mercury are discovered. Factors to be considered include significance of sources, economic considerations, and technical and treatability considerations.

On or before March 31 of each year, the permittee shall submit a status report for the previous calendar year to the Kalamazoo District Supervisor of the Surface Water Quality Division that includes 1) the monitoring results for the previous year, 2) an updated list of potential mercury sources, and 3) a summary of all actions taken to reduce or eliminate identified sources of mercury.

Any information generated as a result of the Pollutant Minimization Program set forth in this permit may be used to support a request to modify the approved program or to demonstrate that the Pollutant Minimization Program requirement has been completed satisfactorily.

A request for modification of the approved program and supporting documentation shall be submitted in writing to the Kalamazoo District Supervisor for review and approval. The Kalamazoo District Supervisor may approve modifications to the approved program (approval of a program modification does not require a permit modification).

The permittee may choose to demonstrate that the program is complete and request removal of the program from the permit. Such request and supporting documentation demonstrating that the goal is being achieved shall be submitted in writing to the Kalamazoo District Supervisor. If the Kalamazoo District Supervisor determines that the request is approvable, this permit may be modified in accordance with applicable laws and rules to remove this requirement.

This permit may be modified in accordance with applicable laws and rules to include additional mercury conditions and/or limitations as necessary.

PART I

Section A. Limitations and Monitoring Requirements

3. Additional Monitoring Requirements

As a condition of this permit, the permittee shall monitor the discharge from monitoring point 001A for the constituents listed below. This monitoring is an application requirement of 40 CFR 122.21(j), effective December 2, 1999. Testing shall be conducted in September, 2002, July, 2003, May, 2004, and March, 2005. Grab samples shall be taken for total mercury, cyanide amenable to chlorination, total phenols, and parameters listed under Volatile Organic Compounds. For all other parameters, 24-hour composite samples shall be taken.

If, upon review of the analysis, it is determined that any of the materials or constituents require limiting in accordance with applicable Water Quality Standards, the permit may then be modified by the Michigan Department of Environmental Quality in accordance with applicable laws and rules.

Hardness
calcium carbonate

Metals (Total Recoverable), Cyanide and Total Phenols (Quantification levels in parentheses)

antimony (1 µg/l)	arsenic (1 µg/l)	beryllium (1 µg/l)
cadmium (0.2 µg/l)	chromium (5 µg/l)	copper (1 µg/l)
lead (1µg/l)	mercury (0.5 ng/l)	nickel (2 µg/l)
selenium (1 µg/l)	silver (0.5 µg/l)	thallium (2 µg/l)
zinc (5 µg/l)		
cyanide amenable to chlorination (5 µg/l)		
total phenolic compounds		
USEPA method 608		

Volatile Organic Compounds

acrolein	acrylonitrile	benzene
bromoform	carbon tetrachloride	chlorobenzene
chlorodibromomethane	chloroethane	2-chloroethylvinyl ether
chloroform	dichlorobromomethane	1,1-dichloroethane
1,2-dichloroethane	trans-1,2-dichloroethylene	1,1-dichloroethylene
1,2-dichloropropane	1,3-dichloropropylene	ethylbenzene
methyl bromide	methyl chloride	methylene chloride
1,1,2,2,-tetrachloroethane	tetrachloroethylene	toluene
1,1,1-trichloroethane	1,1,2-trichloroethane	trichloroethylene
vinyl chloride		

Acid-Extractable Compounds

p-chloro-m-creso	2-chlorophenol	2,4-dichlorophenol
2,4-dimethylphenol	4,6-dinitro-o-cresol	2,4-dinitrophenol
2-nitrophenol	4-nitrophenol	pentachlorophenol
phenol	2,4,6-trichlorophenol	

PART I

Section A. Limitations and Monitoring Requirements

Base/Neutral Compounds

acenaphthene	acenaphthylene	anthracene
benzidine	benzo(a)anthracene	benzo(a)pyrene
3,4-benzofluoranthene	benzo(ghi)perylene	benzo(k)fluoranthene
bis(2-chloroethoxy)methane	bis(2-chloroethyl)ether	bis(2-chloroisopropyl)ether
bis(2-ethylhexyl)phthalate	4-bromophenyl phenyl ether	chrysene
di-n-butyl phthalate	di-n-octyl phthalate	dibenzo(a,h)anthracene
1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
3,3'-dichlorobenzidine	diethyl phthalate	dimethyl phthalate
2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine
fluoranthene	fluorene	hexachlorobenzene
hexachlorobutadiene	hexachlorocyclo-pentadiene	hexachloroethane
indeno(1,2,3-cd)pyrene	isophorone	naphthalene
nitrobenzene	n-nitrosodi-n-propylamine	n-nitrosodimethylamine
n-nitrosodiphenylamine	phenanthrene	pyrene
1,2,4-trichlorobenzene		

Pesticides

Aldrin	α-BHC	β-BHC
Δ-BHC	γ-BHC(Lindane)	Chlordane
4,4' DDD	4,4"DDE	4,4 DDT
Diedrin	α-Endosulfan	Endosulfan Sulfate
Endrin	Endrin Aldehyde	Heptachor
Heptachor Epoxide	PCB-1016	PCB-1221
PCB-1232	PCB-1242	PCB-1248
PCB-1254	PCB-1260	Toxaphene

There shall be monitoring of the secondary biosolids for the PCB's listed above.

PART I

Section A. Limitations and Monitoring Requirements

4. Storm Water Pollution Prevention Plan

The permittee is authorized to discharge storm water associated with industrial activities as defined in 40 CFR 122.26(b)(14). These storm water discharges shall be controlled in accordance with the requirements of this special condition. The permittee has developed and implemented a Storm Water Pollution Prevention Plan (plan). The permittee shall continue implementation of the plan for maximum control of significant materials (as defined in Part I.A.4.i.) so that storm water discharges will not cause a violation of the Water Quality Standards. The plan shall be routinely reviewed and updated in accordance with the requirements of this Special Condition.

a. Source Identification

To identify potential sources of significant materials that can enter storm water and subsequently be discharged from the facility, the plan shall, at a minimum, include the following:

1) A site map identifying the following: buildings and other permanent structures; storage or disposal areas for significant materials; secondary containment structures; storm water discharge outfalls (numbered for reference); location of storm water inlets contributing to each outfall; location of NPDES permitted discharges other than storm water; outlines of the drainage areas contributing to each outfall; structural runoff controls or storm water treatment facilities; areas of vegetation; areas of exposed and/or erodible soils; impervious surfaces (roofs, asphalt, concrete); name and location of receiving water(s); and areas of known or suspected impacts on surface waters as designated under Part 201 (Environmental Response) of the Michigan Act.

2) A list of all significant materials that could enter storm water. For each material listed, the plan shall include the following descriptions:

a) ways in which each type of material has been or has reasonable potential to become exposed to storm water (e.g., spillage during handling; leaks from pipes, pumps, and vessels; contact with storage piles; waste handling and disposal; deposits from dust or overspray, etc.);

b) identification of the outfall or outfalls through which the material may be discharged if released;

c) a listing of oil and materials on the Critical Materials Register that have been spilled or leaked over the three (3) years prior to the completion of the plan; the date, volume and exact location of release; and the action taken to clean up the material and/or prevent exposure to storm water runoff or contamination of surface waters of the state. Any release that occurs after the plan has been developed shall be controlled in accordance with the plan and is cause for the plan to be updated as appropriate within 14 calendar days of obtaining knowledge of the spill or loss; and

d) a summary of existing storm water discharge sampling data (if available) describing pollutants in storm water discharges associated with industrial activity at the facility. This summary shall be accompanied by a description of the suspected source(s) of the pollutants detected.

3) An evaluation of the reasonable potential for contribution of significant materials to runoff from at least the following areas or activities: loading, unloading, and other material handling operations; outdoor storage, including secondary containment structures; outdoor manufacturing or processing activities; significant dust or particulate generating processes; discharge from vents, stacks and air emission controls; on-site waste disposal practices; maintenance and cleaning of vehicles, machines and equipment; sites of exposed and/or erodible soil; sites of environmental contamination listed under Part 201 (Environmental Response) of the Michigan Act; areas of significant material residue; and other areas where storm water may contact significant materials.

PART I

Section A. Limitations and Monitoring Requirements

b. Preventive Measures and Source Controls, Non-Structural
To prevent significant materials from contacting storm water at the source, the plan shall, at a minimum, include the following non-structural controls:

1) Description of a program for routine preventive maintenance which includes requirements for inspection and maintenance of storm water management and control devices (e.g., cleaning of oil/water separators and catch basins) as well as inspecting and testing plant equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters. A log of the inspection and corrective actions shall be maintained on file by the permittee, and shall be retained in accordance with Part I.A.4.f.

2) A schedule for comprehensive site inspection to include visual inspection of equipment, plant areas, and structural pollution prevention and treatment controls to be performed at least once every six (6) months. A report of the results of the comprehensive site inspection shall be prepared and retained in accordance with Part I.A.4.f. The report shall identify any incidents of non-compliance with the plan. If there are no reportable incidents of non-compliance, the report shall contain a certification that the facility is in compliance with this plan.

3) A description of good housekeeping procedures to maintain a clean, orderly facility.

4) A description of material handling procedures and storage requirements for significant materials. Equipment and procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The procedures shall identify measures to prevent the spilled materials from being discharged into storm water. The plan may include, by reference, requirements of either a Pollution Incident Prevention Plan (PIPP) prepared in accordance with the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code); a Hazardous Waste Contingency Plan prepared in accordance with 40 CFR 264 and 265 Subpart D, as required by Part 111 of the Michigan Act; or a Spill Prevention Control and Countermeasure (SPCC) plan prepared in accordance with 40 CFR 112.

5) Identification of areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall also identify measures used to control soil erosion and sedimentation.

6) A description of employee training programs which will be implemented to inform appropriate personnel at all levels of responsibility of the components and goals of the plan. The plan shall identify periodic dates for such training.

7) Identification of significant materials expected to be present in storm water discharges following implementation of non-structural preventative measures and source controls.

c. Structural Controls for Prevention and Treatment
Where implementation of the measures required by Part I.A.4.b. does not control storm water discharges in accordance with Water Quality Standards in Part I.A.4.h., the plan shall provide a description of the location, function. and design criteria of structural controls for prevention and treatment. Structural controls may be necessary:

1) to prevent uncontaminated storm water from contacting or being contacted by significant materials, and/or

2) if preventive measures are not feasible or are inadequate to keep significant materials at the site from contaminating storm water. Structural controls shall be used to treat, divert, isolate, recycle, reuse or otherwise manage storm water in a manner that reduces the level of significant materials in the storm water and provides compliance with the Water Quality Standards in accordance with Part I.A.4.h.

d. Keeping Plans Current
1) The permittee shall review the plan on or before July 1 of each year, and maintain written summaries of the reviews. Based on the review, the permittee shall amend the plan as needed to ensure continued compliance with the terms and conditions of this permit.

PART I

Section A. Limitations and Monitoring Requirements

2) The plan shall also be updated or amended whenever changes or spills at the facility increase or have the potential to increase the exposure of significant materials to storm water, or when the plan is determined by the permittee or the Kalamazoo District Supervisor of the Surface Water Quality Division to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. Updates based on increased activity at the facility shall include a description of how the permittee intends to control any new sources of significant materials or respond to and prevent spills in accordance with the requirements of Parts I.A.4.a., I.A.4.b., and I.A.4.c.

3) The Kalamazoo District Supervisor or authorized representative may notify the permittee at any time that the plan does not meet minimum requirements. Such notification shall identify why the plan does not meet minimum requirements. The permittee shall make the required changes to the plan within 30 days after such notification from the Kalamazoo District Supervisor or authorized representative, and shall submit to the Kalamazoo District Supervisor a written certification that the requested changes have been made.

e. Certified Storm Water Operator Update
If the certified operator has changed or an additional certified storm water operator is added, the permittee shall provide the name and certification number of the new operator to the Kalamazoo District Supervisor. The new operator shall review and sign the plan.

f. Signature and Plan Review
1) The plan shall be signed by the certified storm water operator and by either the permittee or an authorized representative in accordance with 40 CFR 122.22. The plan shall be retained on site of the facility that generates the storm water discharge.

2) The permittee shall make plans, reports, log books, runoff quality data, and supporting documents available upon request to the Kalamazoo District Supervisor of the Surface Water Quality Division or authorized representative.

g. Record Keeping
The permittee shall maintain records of all inspection and maintenance activities. Records shall also be kept describing incidents such as spills or other discharges that can affect the quality of storm water runoff. All such records shall be retained for three (3) years.

h. Water Quality Standards
At the time of discharge, there shall be no violation of the Water Quality Standards in the receiving waters as a result of this discharge. This requirement includes, but is not limited to, the following conditions:

1) In accordance with Rule 323.1050 of the Water Quality Standards, the receiving waters shall not have any of the following unnatural physical properties in quantities which are or may become injurious to any designated use: unnatural turbidity, color, oil film, floating solids, foams, settleable solids, suspended solids, or deposits as a result of this discharge.

2) Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, suspended solids, or deposits) shall be reported within 24 hours to the Kalamazoo District Supervisor of the Surface Water Quality Division followed with a written report within five (5) days detailing the findings of the investigation and the steps taken to correct the condition.

i. Significant Materials
Significant Materials means any material which could degrade or impair water quality, including but not limited to: raw materials; fuels; salt; solvents; detergents; plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (see 40 CFR 372.65); any chemical the facility is required to report pursuant to Section 313 of Emergency Planning and Community Right-to-Know Act (EPCRA); any material on the Critical Materials Register pursuant to Section 3111 of the Michigan Act; Hazardous Wastes as defined in Part 111 of the Michigan Act; fertilizers; pesticides; and waste products such as ashes, slag, and sludge that have the potential to be released with storm water discharges.

PART I

Section A. Limitations and Monitoring Requirements

j. Prohibition of Non-storm Water Discharges
Discharges of material other than storm water shall be in compliance with an NPDES permit issued for the discharge. Storm water shall be defined to include the following non-storm water discharges provided pollution prevention controls for the non-storm water component are identified in the plan: discharges from fire hydrant flushing, potable water sources including water line flushing, fire system test water, irrigation drainage, lawn watering, routine building wash down which does not use detergents or other compounds, pavement wash water where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material have been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated groundwater, and foundation or footing drains where flows are not contaminated with process materials such as solvents. Discharges from fire fighting activities are authorized by this permit, but do not have to be identified in the plan.

5. Water Quality Trading

The permittee may participate in Michigan Water Quality Trading Program in accordance with applicable laws and rules.

Preventing Pollution is the Best Solution

The Michigan Department of Environmental Quality (DEQ) encourages you to consider pollution prevention alternatives. In some cases pollution prevention may allow you to avoid the need to discharge pollutants which would otherwise require permit limitations -- or even avoid the need for permits altogether! Pollution prevention can:

- ☑ Save Money
- ☑ Reduce Waste
- ☑ Aid Permit Compliance
- ☑ Protect Our Environment
- ☑ Improve Corporate Image
- ☑ Reduce Liability

The DEQ is helping Michigan's industries save money, reduce waste and protect our environment through pollution prevention. DEQ staff can provide pollution prevention assistance through telephone consultations, technical workshops and seminars, and informational publications. They can also put you directly in touch with local support networks and national pollution prevention resources. For more information, contact the Michigan Department of Environmental Quality, Environmental Assistance Division, at 1-800-662-9278 or visit our homepage at http://www.deq.state.mi.us

PART I

Section B. Schedule of Compliance

This section (Section B: Schedule of Compliance) is not needed for this permit.

PART I

Section C. Industrial Waste Pretreatment Program

1. Federal Industrial Pretreatment Program

a. The permittee shall implement the Federal Industrial Pretreatment Program approved on October 11, 1985, and any subsequent modifications approved up to the issuance of this permit. Approval of substantial program modifications after the issuance of this permit shall be incorporated into this permit by minor modification in accordance with 40 CFR 122.63.

b. The permittee shall comply with Rules 323.2301 through 323.2317 of the Michigan Administrative Code (Part 23 Rules), the General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403), and the approved Federal Industrial Pretreatment Program.

c. The permittee shall have the legal authority and necessary interjurisdictional agreements that provide the basis for the implementation and enforcement of the approved Federal Industrial Pretreatment Program throughout the service area. The legal authority and necessary interjurisdictional agreements shall include, at a minimum, the authority to carry out the activities specified in Rule 323.2306(a).

d. The permittee shall develop procedures which describe, in sufficient detail, program commitments which enable implementation of the approved Federal Industrial Pretreatment Program, 40 CFR Part 403, and the Part 23 Rules in accordance with Rule 323.2306(c).

e. The permittee shall establish an interjurisdictional agreement (or comparable document) with all tributary governmental jurisdictions. Each interjurisdictional agreement shall contain, at a minimum, the following:

1) identification of the agency responsible for the implementation and enforcement of the approved Federal Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries; and

2) the provision of the legal authority which provides the basis for the implementation and enforcement of the approved Federal Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries.

f. The permittee shall prohibit discharges that:

1) cause, in whole or in part, the permittee's failure to comply with any condition of this permit or the Michigan Act;

2) restrict, in whole or in part, the permittee's management of biosolids;

3) cause, in whole or in part, operational problems at the treatment facility or in its collection system;

4) violate any of the general or specific prohibitions identified in Rule 323.2303(1) and (2);

5) violate categorical standards identified in Rule 323.2311; and

6) violate local limits established in accordance with Rule 323.2303(4).

g. The permittee shall maintain a list of its nondomestic users that meet the criteria of a significant industrial user as identified in Rule 323.2302(cc).

h. The permittee shall develop an enforcement response plan which describes, in sufficient detail, program commitments which will enable the enforcement of the approved Federal Industrial Pretreatment Program, 40 CFR Part 403, and the Part 23 Rules in accordance with Rule 323.2306(g).

i. The District Supervisor of the Surface Water Quality Division may require modifications to the approved Federal Industrial Pretreatment Program which are necessary to ensure compliance with 40 CFR Part 403 and the Part 23 Rules in accordance with Rule 323.2309.

PART I

Section C. Industrial Waste Pretreatment Program

j. The permittee shall not implement changes or modifications to the approved Federal Industrial Pretreatment Program without notification to the District Supervisor of the Surface Water Quality Division. Any substantial modification shall be subject to Department public noticing and approval in accordance with Rule 323.2309.

k. The permittee shall maintain an adequate revenue structure and staffing level for effective implementation of the approved Federal Industrial Pretreatment Program.

l. The permittee shall develop and maintain, for a minimum of three (3) years, all records and information necessary to determine nondomestic user compliance with 40 CFR Part 403, Part 23 Rules and the approved Federal Industrial Pretreatment Program. This period of retention shall be extended during the course of any unresolved enforcement action or litigation regarding a nondomestic user or when requested by the Department or the United States Environmental Protection Agency. All of the aforementioned records and information shall be made available upon request for inspection and copying by the Department and the United States Environmental Protection Agency.

m. The permittee shall evaluate the approved Federal Industrial Pretreatment Program for compliance with the 40 CFR Part 403, Part 23 Rules and the prohibitions stated in item f (above). Based upon this evaluation, the permittee shall propose to the District Supervisor of the Surface Water Quality Division all necessary changes or modifications to the approved Federal Industrial Pretreatment Program no later than the next Industrial Pretreatment Program Annual Report due date (see item o below).

n. The permittee shall develop and enforce local limits to implement the prohibitions listed in item f above. Local limits shall be based upon data representative of actual conditions demonstrated in a maximum allowable headworks loading analysis.

o. On or before April 1st of each year, the permittee shall submit, as required by Rule 323.2310(8) an Industrial Pretreatment Program Annual Report on the status of program implementation and enforcement activities. The reporting period shall begin on January 1st and end on December 31st. The Industrial Pretreatment Program Annual Report shall be submitted to the District Supervisor of the Surface Water Quality Division and may be submitted on forms provided by the Department. At a minimum, the Industrial Pretreatment Program Annual Report shall contain the following items:

1) additions, deletions, and any other modifications to the permittee's previously submitted nondomestic user inventory (Rule 323.2306(c)(i));

2) additions, deletions, and any other modifications to the permittee's approved Significant Industrial User List (Rule 323.2306(h));

3) a listing of the names of Significant Industrial Users not inspected by the permittee at least once during the reporting period or at the frequency committed to in the approved Federal Industrial Pretreatment Program;

4) a listing of the names of Significant Industrial Users not sampled for all required pollutants by the permittee at least once during the reporting period or at the frequency committed to in the approved Federal Industrial Pretreatment Program;

5) a listing of the names of Significant Industrial Users without a permit at any time during the reporting period;

6) a listing of the names of nondomestic industrial users in significant noncompliance for each of the criteria as defined in Rule 323.2302(dd)(i)-(viii);

7) proof of publication of all nondomestic users in significant noncompliance in the largest daily newspaper in the permittee's area;

PART I

Section C. Industrial Waste Pretreatment Program

8) a summary of the enforcement activities by the permittee during the report period. This Summary shall include:

a) a listing of the names of nondomestic users which were the subject of an enforcement action;

b) the enforcement action taken and the date the action was taken; and

c) whether the nondomestic user returned to compliance by the end of the reporting period (include date nondomestic user returned to compliance).

9) a listing of the names of Significant Industrial Users who did not submit pretreatment reports in accordance with requirements specified in their permit during the reporting period;

10) a listing of the names of Significant Industrial Users who did not self-monitor in accordance with requirements specified in their permit during the reporting period;

11) a summary of results of all the sampling and analyses performed of the wastewater treatment influent, effluent, and sludge conducted in accordance with approved methods during the reporting period; and

12) any other relevant information as requested by the Department.

2. Federal Industrial Pretreatment Standard Exemption

In accordance with Public Law 104-134, the permittee submitted on March 19, 1999 (with supportive documentation through February 8, 2001), a request for an exemption from the Federal Categorical Pretreatment Standards which apply to the Pharmacia Corporation pharmaceutical manufacturing facility located at 7171 Portage Road, Kalamazoo, Michigan and which discharges to the Kalamazoo Water Reclamation Plant. The request was approved on May 23, 2001. The approval was based on a demonstration that the Kalamazoo Water Reclamation Plant will provide treatment and pollution removal equivalent to or better than that which would be required through a combination of pretreatment by such industrial discharger and treatment by the Kalamazoo Water Reclamation Plant in the absence of the exemption and that all other provisions of Public Law 104-134 are complied with.

a. The exemption, as specified in the approval letter, from the Pharmaceutical Point Source Standards are granted for Acetone, Toluene and Methylene Chloride at the facility listed above with the following conditions:

1) All pollutants regulated under Federal Categorical Standards, except for those listed above at the Pharmacia Corporation facility, shall satisfy requirements for Existing or New Source for indirect dischargers.

2) The City of Kalamazoo shall require the Pharmacia Corporation to monitor for all exempted parameters monthly using United States Environmental Protection Agency approved methods in accordance with 40 CFR 136.

3) Monitoring results shall be submitted to the Supervisor of the Kalamazoo District Supervisor of the Surface Water Quality Division annually with the Annual Pretreatment Report for the City of Kalamazoo.

4) The City of Kalamazoo shall require the Pharmacia Corporation facility to report immediately any concentration exceeding the following notification levels:

Acetone	282 mg/l
Toluene	1.7 mg/l
Methylene Chloride	8.9 mg/l

PART I

Section C. Industrial Waste Pretreatment Program

The City of Kalamazoo shall report such discharges to the Kalamazoo District Supervisor of the Surface Water Quality Division within 30 days of receipt of notice by the pharmaceutical manufacturer.

5) Any substantial change to processes, treatment, loading or concentration of pollutants, discharge location, or other information used as a basis for the exemption shall be reported immediately.

6) If the conditions of the exemption are not met on a consistent basis, the MDEQ reserves the right to withdraw its authorization of the exemption request.

7) Requests for an exemption for additional regulated pollutants shall be submitted for approval to the Kalamazoo District Supervisor of the Surface Water Quality Division.

8) On approval of additional pollutant exemptions, the exemptions of the approval letter shall be considered part of this permit, including new notification levels. All other portions of Part I.C.2 shall not be changed by this action.

PART I

Section D. Residuals Management Program

1. Residuals Management Program for Land Application of Biosolids

It is understood the permittee does not currently land apply biosolids or prepare biosolids for land application, and therefore is not required to immediately develop a Residuals Management Program (RMP) in accordance with the Part 24 Rules of the Michigan Administrative Code. Alternative biosolids recycling and/or disposal activities, including incineration and landfilling, shall be conducted in accordance with Part II.D.7. of this permit. In the event the permittee proposes to prepare biosolids for land application or land apply biosolids, an RMP shall be submitted to the Kalamazoo Supervisor of the Surface Water Quality Division for approval.

a. Program Development
At a minimum, the program submittal shall include:

1) a description of the type and size of facility generating the biosolids;

2) a description of the biosolids treatment processes including the volume of biosolids generated from each process;

3) storage volume provided, if applicable;

4) transportation methods and spill prevention plan;

5) a description of the land application method;

6) a listing of the required information on all land application sites, information on initial application notifications required by R323.2408 and class B biosolids site restriction notifications, if applicable, as specified in R323.2414(3)(f);

7) a land application plan which shows compliance with the applicable management requirements identified in R323.2410 and the loading rates and limitations as specified in R323.2408, R323.2409 and R323.2417;

8) a description of the pathogen reduction method used to comply with R323.2411, R323.2414 and R323.2418;

9) a description of the vector attraction reduction method used to comply with R323.2415; and

10) information on monitoring program, monitoring frequencies pursuant to R323.2412, and one year of records representing the volume and concentrations of pollutants in the biosolids.

b. RMP Implementation
The permittee shall implement the approved RMP immediately upon written approval from the Kalamazoo District Supervisor of the Surface Water Quality Division. Upon RMP approval, the permittee may land apply bulk biosolids, and the approved RMP becomes an enforceable requirement of this permit.

c. Modifications to the Approved RMP
The permittee shall submit proposed modifications to its RMP to the Kalamazoo District Supervisor of the Surface Water Quality Division for approval. The approved modification shall become effective upon the date of approval. Upon written notification, the Kalamazoo District Supervisor may impose additional requirements and/or limitations to the approved RMP, as necessary to protect public health and the environment from any adverse effect of a pollutant in the biosolids.

d. Recordkeeping
Records required by R323.2413 shall be kept for a minimum of five years. However, the records documenting cumulative loading for sites subject to cumulative pollutant loading rates shall be kept as long as the site receives biosolids.

PART I

Section D. Residuals Management Program

e. Annual Report

The permittee shall report the number of dry tons of biosolids generated that were applied to the land in the State of Michigan in the state fiscal year (October 1 through September 30). The annual report shall include information required in R323.2413(2)(h) and R323.2413 (3) to (8), except R323.2413 (6)(b), (7)(b), and (8)(b). The report shall be submitted to the Kalamazoo District Supervisor of the Surface Water Quality Division on or before October 30 of each year.

PART II

Section A. Definitions

This list of definitions may include terms not applicable to this permit.

Acute toxic unit (TU_a) means $100/LC_{50}$ where the LC_{50} is determined from a whole effluent toxicity (WET) test which produces a result that is statistically or graphically estimated to be lethal to 50% of the test organisms.

Bioaccumulative chemical of concern (BCC) means a chemical which, upon entering the surface waters, by itself or as its toxic transformation product, accumulates in aquatic organisms by a human health bioaccumulation factor of more than 1000 after considering metabolism and other physiochemical properties that might enhance or inhibit bioaccumulation. The human health bioaccumulation factor shall be derived according to R 323.1057(5). Chemicals with half-lives of less than 8 weeks in the water column, sediment, and biota are not BCCs. The minimum bioaccumulation concentration factor (BAF) information needed to define an organic chemical as a BCC is either a field-measured BAF or a BAF derived using the biota-sediment accumulation factor (BSAF) methodology. The minimum BAF information needed to define an inorganic chemical as a BCC, including an organometal, is either a field-measured BAF or a laboratory-measured bioconcentration factor (BCF). The BCCs to which these rules apply are identified in Table 5 of R 323.1057 of the Water Quality Standards.

Biosolids are the solid, semisolid, or liquid residues generated during the treatment of sanitary sewage or domestic sewage in a treatment works. This includes, but is not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment processes and a derivative of the removed scum or solids.

Bulk biosolids means biosolids that are not sold or given away in a bag or other container for application to a lawn or home garden.

Chronic toxic unit (TU_c) means 100/MATC or $100/IC_{25}$, where the maximum acceptable toxicant concentration (MATC) and IC_{25} are expressed as a percent effluent in the test medium.

Class B Biosolids refers to material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PSRP) in accordance with the Part 24 Rules. Processes include aerobic digestion, composting, anaerobic digestion, lime stabilization and air drying.

Daily concentration is the sum of the concentrations of the individual samples of a parameter divided by the number of samples taken during any calendar day. If the parameter concentration in any sample is less than the quantification limit, regard that value as zero when calculating the daily concentration. The daily concentration will be used to determine compliance with any maximum and minimum daily concentration limitations (except for pH and dissolved oxygen). When required by the permit, report the maximum calculated daily concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the Discharge Monitoring Reports (DMRs).

For pH, report the maximum value of any <u>individual</u> sample taken during the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs and the minimum value of any <u>individual</u> sample taken during the month in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs. For dissolved oxygen, report the minimum concentration of any <u>individual</u> sample in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

Daily loading is the total discharge by weight of a parameter discharged during any calendar day. This value is calculated by multiplying the daily concentration by the total daily flow and by the appropriate conversion factor. The daily loading will be used to determine compliance with any maximum daily loading limitations. When required by the permit, report the maximum calculated daily loading for the month in the "MAXIMUM" column under "QUANTITY OR LOADING" on the DMRs.

Department means the Michigan Department of Environmental Quality.

Detection Level means the lowest concentration or amount of the target analyte that can be determined to be different from zero by a single measurement at a stated level of probability.

District Supervisor: The Kalamazoo District Supervisor of the Surface Water Quality Division is located at the Kalamazoo District Office-DEQ, Surface Water Quality Division, 7953 Adobe Road, Kalamazoo, Michigan 49009-5026, telephone: 616-567-3500 (fax: 616-567-9440).

PART II

Section A. Definitions

EC_{50} means a statistically or graphically estimated concentration that is expected to cause 1 or more specified effects in 50% of a group of organisms under specified conditions.

Fecal coliform bacteria monthly is the geometric mean of the samples collected in a calendar month (or 30 consecutive days). The calculated monthly value will be used to determine compliance with the maximum monthly fecal coliform bacteria limitations. When required by the permit, report the calculated monthly value in the "AVERAGE" column under "QUALITY OR CONCENTRATION" on the DMRs.

Fecal coliform bacteria 7-day is the geometric mean of the samples collected in any 7-day period. The calculated 7-day value will be used to determine compliance with the maximum 7-day fecal coliform bacteria limitations. When required by the permit, report the maximum calculated 7-day concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

Flow Proportioned sample is a composite sample with the sample volume proportional to the effluent flow.

Grab sample is a single sample taken at neither a set time nor flow.

IC_{25} means the toxicant concentration that would cause a 25% reduction in a nonquantal biological measurement for the test population.

Interference is a discharge which, alone or in conjunction with a discharge or discharges from other sources, both: 1) inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and 2) therefore, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or, of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act. [This definition does not apply to sample matrix interference.]

Land Application means spraying or spreading biosolids or a biosolids derivative onto the land surface, injecting below the land surface, or incorporating into the soil so that the biosolids or biosolids derivative can either condition the soil or fertilize crops or vegetation grown in the soil.

LC_{50} means a statistically or graphically estimated concentration that is expected to be lethal to 50% of a group of organisms under specified conditions.

Maximum acceptable toxicant concentration (MATC) means the concentration obtained by calculating the geometric mean of the lower and upper chronic limits from a chronic test. A lower chronic limit is the highest tested concentration that did not cause the occurrence of a specific adverse effect. An upper chronic limit is the lowest tested concentration which did cause the occurrence of a specific adverse effect and above which all tested concentrations caused such an occurrence.

Monthly concentration is the sum of the daily concentrations determined during a reporting month (or 30 consecutive days) divided by the number of daily concentrations determined. The calculated monthly concentration will be used to determine compliance with any maximum monthly concentration limitations. When required by the permit, report the calculated monthly concentration in the "AVERAGE" column under "QUALITY OR CONCENTRATION" on the DMRs.

For minimum percent removal requirements, the monthly influent concentration and the monthly effluent concentration shall be determined. The calculated monthly percent removal, which is equal to 100 times the quantity [1 minus the quantity (monthly effluent concentration divided by the monthly influent concentration)], shall be reported in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

PART II

Section A. Definitions

Monthly loading is the sum of the daily loadings of a parameter divided by the number of daily loadings determined in the reporting month (or 30 consecutive days). The calculated monthly loading will be used to determine compliance with any maximum monthly loading limitations. When required by the permit, report the calculated monthly loading in the "AVERAGE" column under "QUANTITY OR LOADING" on the DMRs.

National Pretreatment Standards are the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Federal Act. The standards establish nationwide limits for specific industrial categories for discharge to a POTW.

NOAEL means the highest tested dose or concentration of a substance that results in no observed adverse effect in exposed test organisms where higher doses or concentrations result in an adverse effect.

Noncontact Cooling Water is water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product or finished product.

Nondomestic user is any discharger to a POTW that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

Pretreatment is reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

POTW is a publicly owned treatment works.

Quantification level means the measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calculated at a specified concentration above the detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the contaminant.

Regional Administrator is the Region 5 Administrator, U.S. EPA, located at R-19J, 77 W. Jackson Blvd., Chicago, Illinois 60604.

7-day concentration is the sum of the daily concentrations determined during any 7 consecutive days in a reporting month divided by the number of daily concentrations determined. The calculated 7-day concentration will be used to determine compliance with any maximum 7-day concentration limitations. When required by the permit, report the maximum calculated 7-day concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

7-day loading is the sum of the daily loadings of a parameter divided by the number of daily loadings determined during any 7 consecutive days in a reporting month. The calculated 7-day loading will be used to determine compliance with any maximum 7-day loading limitations. When required by the permit, report the maximum calculated 7-day loading for the month in the "MAXIMUM" column under "QUANTITY OR LOADING" on the DMRs.

Significant industrial user is a nondomestic user that: 1) is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or 2) discharges an average of 25,000 gallons per day or more of process wastewater to a POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the permittee as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's treatment plant operation or violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Tier I value means a value for aquatic life, human health or wildlife calculated under R 323.1057 of the Water Quality Standards using a tier I toxicity database.

PART II

Section A. Definitions

Tier II value means a value for aquatic life, human health or wildlife calculated under R 323.1057 of the Water Quality Standards using a tier II toxicity database.

Toxicity Reduction Evaluation (TRE) means a site-specific study conducted in a stepwise process designed to identify the causative agents of effluent toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in effluent toxicity.

Water Quality Standards means the Part 4 Water Quality Standards developed under Part 31 of Act No. 451 of the Public Acts of 1994, as amended, being Rules 323.1041 through 323.1117 of the Michigan Administrative Code.

3-Portion Composite sample is a sample consisting of three equal volume grab samples collected at equal intervals over an 8-hour period.

24-Hour Composite sample is a flow proportioned composite sample consisting of hourly or more frequent portions that are taken over a 24-hour period.

PART II

Section B. Monitoring Procedures

1. Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to Section 304(h) of the Federal Act (40 CFR Part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants). For parameters not specified in the permit or covered by the regulations, test procedures shall be submitted for approval to the Kalamazoo District Supervisor of the Surface Water Quality Division.

The permittee shall periodically calibrate and perform maintenance procedures on all analytical instrumentation at intervals to ensure accuracy of measurements. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

3. Instrumentation

The permittee shall periodically calibrate and perform maintenance procedures on all monitoring instrumentation at intervals to ensure accuracy of measurements.

4. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information: 1) the exact place, date, and time of measurement or sampling; 2) the person(s) who performed the measurement or sample collection: 3) the dates the analyses were performed; 4) the person(s) who performed the analyses; 5) the analytical techniques or methods used; 6) the date of and person responsible for equipment calibration; and 7) the results of all required analyses.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the Michigan Department of Environmental Quality.

PART II

Section C. Reporting Requirements

1. Start-up Notification

If the permittee will not discharge during the first 60 days following the effective date of this permit, the permittee shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division within 14 days following the effective date of this permit, and then 60 days prior to the commencement of the discharge.

2. Submittal Requirements for Self-Monitoring Data

Unless instructed on the effluent limits page to conduct "retained self-monitoring," the permittee shall submit self-monitoring data on the Environmental Protection Agency's Discharge Monitoring Report (DMR) forms (monthly summary information) and the Department's Daily Discharge Monitoring Report forms (daily information) to PCS-Data Entry, Surface Water Quality Division, Michigan Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan, 48909-7773, for each calendar month of the authorized discharge period(s). The forms shall be postmarked no later than the 10th day of the month following each month of the authorized discharge period(s).

Alternative Daily Discharge Monitoring Report formats may be used if they provide equivalent reporting details and are approved by the Kalamazoo District Supervisor of the Surface Water Quality Division. For information on electronic submittal of this information, contact the Kalamazoo District Supervisor.

3. Retained Self-Monitoring Requirements

If instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall maintain a year-to-date log of retained self-monitoring results and, upon request, provide such log for inspection to the staff of the Surface Water Quality Division, Michigan Department of Environmental Quality (in the case of Type I or Type II public water supplies, mobile home parks, campgrounds, and marinas, to the staff of the Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality, or, in the case of hospitals, nursing homes and extended care facilities, to the staff of the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services). Retained self-monitoring results are public information and shall be promptly provided to the public upon request.

The permittee shall certify, in writing, to the Kalamazoo District Supervisor of the Surface Water Quality Division, on or before January 10th of each year, that: 1) all retained self-monitoring requirements have been complied with and a year-to-date log has been maintained; and 2) the application on which this permit is based still accurately describes the discharge.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

Monitoring required pursuant to Part 41 of the Michigan Act or Rule 35 of the Mobile Home Park Commission Act (Act 96 of the Public Acts of 1987) for assurance of proper facility operation shall be submitted as required by the Department.

5. Compliance Dates Notification

Within 14 days of every compliance date specified in this permit, the permittee shall submit a written notification to the Kalamazoo District Supervisor of the Surface Water Quality Division indicating whether or not the particular requirement was accomplished. If the requirement was not accomplished, the notification shall include an explanation of the failure to accomplish the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be accomplished. If a written report is required to be submitted by a specified date and the permittee accomplishes this, a separate written notification is not required.

PART II

Section C. Reporting Requirements

6. Noncompliance Notification

Compliance with all applicable requirements set forth in the Federal Act, Parts 31 and 41 of the Michigan Act, and related regulations and rules is required. All instances of noncompliance shall be reported as follows:

a. 24-hour reporting - Any noncompliance which may endanger health or the environment (including maximum daily concentration discharge limitation exceedances) shall be reported, verbally, within 24 hours from the time the permittee becomes aware of the noncompliance. A written submission shall also be provided within five (5) days.

b. other reporting - The permittee shall report, in writing, all other instances of noncompliance not described in a. above at the time monitoring reports are submitted; or, in the case of retained self-monitoring, within five (5) days from the time the permittee becomes aware of the noncompliance.

Written reporting shall include: 1) a description of the discharge and cause of noncompliance: and 2) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and the steps taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

7. Spill Notification

The permittee shall immediately report any spill or loss of any product, by-product, intermediate product, oils, solvents, waste material, or any other polluting substance which occurs to the surface waters or groundwaters of the state by calling the Kalamazoo District Supervisor of the Surface Water Quality Division at 616-567-3500, or if the notice is provided after regular working hours call the Department of Environmental Quality's 24-hour Pollution Emergency Alerting System telephone number, 1-800-292-4706 (calls from out-of-state dial 1-517-373-7660): and within ten (10) days of the spill or loss, the permittee shall submit to the Kalamazoo District Supervisor of the Surface Water Quality Division a full written explanation as to the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken, and schedule of implementation.

8. Upset Noncompliance Notification

If a process "upset" (defined as an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee) has occurred, the permittee who wishes to establish the affirmative defense of upset shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions; and within five (5) days, provide in writing, the following information:

a. that an upset occurred and that the permittee can identify the specific cause(s) of the upset;

b. that the permitted wastewater treatment facility was, at the time, being properly operated; and

c. that the permittee has specified and taken action on all responsible steps to minimize or correct any adverse impact in the environment resulting from noncompliance with this permit.

In any enforcement proceedings, the permittee, seeking to establish the occurrence of an upset, has the burden of proof.

PART II

Section C. Reporting Requirements

9. Bypass Prohibition and Notification

a. Bypass Prohibition - Bypass is prohibited unless:

1) bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2) there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass; and

3) the permittee submitted notices as required under 9.b. or 9.c. below.

b. Notice of Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Kalamazoo District Supervisor of the Surface Water Quality Division, if possible at least ten (10) days before the date of the bypass, and provide information about the anticipated bypass as required by the Kalamazoo District Supervisor. The Kalamazoo District Supervisor may approve an anticipated bypass, after considering its adverse effects, if it will meet the three conditions listed in 9.a. above.

c. Notice of Unanticipated Bypass - The permittee shall submit notice to the Kalamazoo District Supervisor of the Surface Water Quality Division of an unanticipated bypass by telephone 616-567-3500 (if the notice is provided after regular working hours, use the following number: 1-800-292-4706) as soon as possible, but no later than 24 hours from the time the permittee becomes aware of the circumstances.

d. Written Report of Bypass - A written submission shall be provided within five (5) working days of commencing any bypass to the Kalamazoo District Supervisor of the Surface Water Quality Division, and at additional times as directed by the Kalamazoo District Supervisor. The written submission shall contain a description of the bypass and its cause; the period of bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass; and other information as required by the Kalamazoo District Supervisor.

e. Bypass Not Exceeding Limitations - The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of 9.a., 9.b., 9.c., and 9.d., above. This provision does not relieve the permittee of any notification responsibilities under Part II.C.10. of this permit.

f. Definitions

1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

PART II

Section C. Reporting Requirements

10. Notification of Changes in Discharge

The permittee shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of: 1) detectable levels of chemicals on the current Michigan Critical Materials Register, priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D. or the Pollutants of Initial Focus in the Great Lakes Water Quality Initiative specified in 40 CFR 132.6, Table 6, which were not acknowledged in the application or listed in the application at less than detectable levels; 2) detectable levels of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information; or 3) any chemical at levels greater than five times the average level reported in the complete application submitted on March 31, 2000. Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the compliance schedules.

11. Changes in Facility Operations

Any anticipated action or activity, including but not limited to facility expansion, production increases, or process modification, which will result in new or increased loadings of pollutants to the receiving waters must be reported to the Kalamazoo District Supervisor of the Surface Water Quality Division by a) submission of an increased use request (application) and all information required under Rule 323.1098 (Antidegradation) of the Water Quality Standards or b) by notice if the following conditions are met: 1) the action or activity will not result in a change in the types of wastewater discharged or result in a greater quantity of wastewater than currently authorized by this permit; 2) the action or activity will not result in violations of the effluent limitations specified in this permit: 3) the action or activity is not prohibited by the requirements of Part II.C.12.; and 4) the action or activity will not require notification pursuant to Part II.C.10. Following such notice, the permit may be modified according to applicable laws and rules to specify and limit any pollutant not previously limited.

12. Bioaccumulative Chemicals of Concern (BCC)

Consistent with the requirements of Rules 323.1098 and 323.1215 of the Michigan Administrative Code, the permittee is prohibited from undertaking any action that would result in a lowering of water quality from an increased loading of a BCC unless an increased use request and antidegradation demonstration have been submitted and approved by the Department.

13. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Kalamazoo District Supervisor of the Surface Water Quality Division 30 days prior to the actual transfer of ownership or control.

PART II

Section D. Management Responsibilities

1. Duty to Comply

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

It is the duty of the permittee to comply with all the terms and conditions of this permit. Any noncompliance with the Effluent Limitations, Special Conditions, or terms of this permit constitutes a violation of the Michigan Act and/or the Federal Act and constitutes grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of an application for permit renewal.

2. Operator Certification

The permittee shall have the waste treatment facilities under direct supervision of an operator certified at the appropriate level for the facility certification by the Michigan Department of Environmental Quality, as required by Sections 3110 and 4104 of the Michigan Act.

3. Facilities Operation

The permittee shall, at all times, properly operate and maintain all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures.

4. Power Failures

In order to maintain compliance with the effluent limitations of this permit and prevent unauthorized discharges, the permittee shall either:

a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit; or

b. upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the surface waters or groundwaters of the state resulting from noncompliance with any effluent limitation specified in this permit including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge in noncompliance.

6. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials in accordance with the requirements of the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code). For a Publicly Owned Treatment Work (POTW), these facilities shall be approved under Part 41 of the Michigan Act.

PART II

Section D. Management Responsibilities

7. Waste Treatment Residues

Residuals (i.e. solids, sludges, biosolids, filter backwash, scrubber water, ash, grit or other pollutants) removed from or resulting from treatment or control of wastewaters, shall be disposed of in an environmentally compatible manner and according to applicable laws and rules. These laws may include, but are not limited to, the Michigan Act, Part 31 for protection of water resources, Part 55 for air pollution control, Part 111 for hazardous waste management, Part 115 for solid waste management, Part 121 for liquid industrial wastes, Part 301 for protection of inland lakes and streams, and Part 303 for wetlands protection. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state.

8. Treatment System Closure

In the event that discharges from a treatment system are planned to be eliminated, the permittee shall submit a closure plan to the Kalamazoo District Supervisor for approval. The closure plan shall include characterization of any wastewater and residuals which will remain on-site after the discharges are eliminated, along with disposal methods, proposed schedule, and any other relevant information as required by the Kalamazoo District Supervisor. Closure activities involving waste treatment residuals shall be consistent with Part II.D.7. of this permit.

The permittee shall implement the closure activities in accordance with the approved plan. Any wastewater or residual disposal inconsistent with the approved plan shall be considered a violation of this permit. After proper closure of the treatment system, this permit may be terminated.

9. Right of Entry

The permittee shall allow the Michigan Department of Environmental Quality, any agent appointed by the Department or the Regional Administrator, upon the presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect process facilities, treatment works, monitoring methods and equipment regulated or required under this permit; and to sample any discharge of pollutants.

10. Availability of Reports

Except for data determined to be confidential under Section 308 of the Federal Act and Rule 2128 (Rule 323.2128 of the Michigan Administrative Code), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the Regional Administrator. As required by the Federal Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Act and Sections 3112, 3115, 4106 and 4110 of the Michigan Act.

PART II

Section E. Activities Not Authorized by This Permit

1. Discharge to the Groundwaters

This permit does not authorize any discharge to the groundwaters. Such discharge may be authorized by a groundwater discharge permit issued pursuant to the Michigan Act.

2. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction for a POTW must be by permit issued under Part 41 of the Michigan Act. Approval for such construction for a mobile home park, campground or marina shall be from the Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality. Approval for such construction for a hospital, nursing home or extended care facility shall be from the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services upon request.

3. Civil and Criminal Liability

Except as provided in permit conditions on "Bypass" (Part II.C.9. pursuant to 40 CFR 122.41(m)). nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond the permittee's control, such as accidents, equipment breakdowns, or labor disputes.

4. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee may be subject under Section 311 of the Federal Act except as are exempted by federal regulations.

5. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Federal Act.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law.